



First-year Monitoring Report for the MWRDGC - North Side, Lemont, & LASMA

Prairie Landscape Conversion Sites



Prepared for:

Metropolitan Water Reclamation
District of Greater Chicago
100 Erie Street
Chicago, Illinois 60611



December 2004



Prepared by:

Conservation Design Forum
Landscape Architecture & Community Planning
Ecological Restoration
Water Resource and Ecological Engineering

FIRST-YEAR MONITORING REPORT FOR THE
MWRDGC – NORTH SIDE, LEMONT, & LASMA
PRAIRIE LANDSCAPE CONVERSION SITES

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CONSERVATION DESIGN FORUM
Project No. 03063.00

Prepared by: _____

Kenneth C. Johnson
Project Manager
Principal of Ecological Services

Date: _____

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EXECUTIVE SUMMARY

- This report documents restoration activities that occurred during the 2004-growing season at three Metropolitan Water Reclamation District of Greater Chicago facilities, including: North Side Water Reclamation Plant (WRP), Lemont WRP, and LASMA Berm prairie conversion sites. In addition, the methods and results of the first year vegetation monitoring are presented.
- Maintenance activities included weed control via mowing and select herbicide applications. These actions were completed by two different maintenance contractors (Natural Resource Management for North Side WRP and Lemont WRP; Conservation Land Stewardship for LASMA Berm). Conservation Design Forum, Inc. worked with the contractors and the site engineers at each facility to coordinate these maintenance activities.
- The results of the vegetation monitoring are typical of native landscape creations that are in their early stages of establishment.
- On-going maintenance of these prairie landscapes in the 2005 growing season will include continued weed control via mowing and select herbicide applications.

INTRODUCTION

PROJECT SITE LOCATIONS AND PURPOSE

In June of 2003, Conservation Design Forum (CDF) was retained by the Metropolitan Water Reclamation District of Greater Chicago (MWRDGC) to facilitate the conversion of existing turf to native prairie landscape at three facilities. The three facilities include: North Side Water Reclamation Plant (WRP), located at 3500 West Howard Street, Skokie; Lemont WRP, located at 13 Stephen Street, Lemont; LASMA Berm, located at 7601 South LaGrange Road, Willow Springs. All three project sites are located in Cook County, Illinois, and are owned and operated by the MWRDGC. A plan view of each project site is included on EXHIBITS A thru C.

The purpose of prairie landscape monitoring is to assess vegetation development from year to year in order to make recommendations as to proper land management. The information presented in this report represents the first growing year of the prairie landscape at each of these three sites. Specific monitoring methods and the locations of vegetation monitoring transects are discussed in the Methods section of this report; the monitoring results are presented in the Results and Discussion section.

MAINTENANCE ACTIVITIES CONDUCTED IN 2004

The following is a chronological list of native landscape maintenance activities that were conducted at each project site in the summer and fall of 2004. [These maintenance activities were documented in several field reports that were submitted to MWRDGC Staff throughout the growing season.] The landscape maintenance contractor for North Side and Lemont WRPs was Natural Resource Management (Beecher, IL), and the contractor for LASMA Berm was Conservation Land Stewardship (Elmhurst, IL). Note that a report prepared by CDF (dated April 2004) summarized the initial site preparation and prairie landscape installation at each site, and that that information is not repeated herein.

North Side WRP

- July 8th: select application of a broadleaf herbicide (*Garlon 3A*) on Black Medic and various clover species.
- August 16th: vegetation across the entire prairie landscape was mowed via a tractor-mounted brush hog.
- October 26th: select application of a broadleaf herbicide (*Garlon 4*) on Field Thistle and various clover species.

Lemont WRP

- June 24th: vegetation across the entire prairie landscape was mowed via a tractor-mounted brush hog (including coarse weeds such as Cut-leaved Teasel located adjacent to prairie).
- July 29th: select application of a broadleaf herbicide (*Garlon 3A*) on Field Thistle and Cut-leaved Teasel.
- September 2nd: vegetation across the entire prairie landscape was mowed via a tractor-mounted brush hog.
- October 12th: select application of a broadleaf herbicide (*Garlon 4*) on Field Thistle and Cut-leaved Teasel.
- November 11th: vegetation across the entire prairie landscape was mowed via a tractor-mounted brush hog.

LASMA Berm

- June 9th, 16th: with the exception of 3 biosolids test plots, the vegetation across the prairie landscape was mowed via a tractor-mounted brush hog; steeper slopes were mowed via weed-whackers.
- August 2nd: select application of a broadleaf herbicide (*Garlon 3A*) on Musk Thistle and Field Thistle, and some miscellaneous hand weeding of biennial species.
- September 2nd, 7th, 8th: with the exception of the 3 biosolids test plots, the vegetation across the prairie landscape was mowed via a tractor-mounted brush hog; steeper slopes were mowed via weed-whackers.

Overall, the maintenance activities were performed in a timely and professional manner by the staff of Natural Resource Management and Conservation Land Stewardship. The photographs included at the back of the report depict many of these activities.

MONITORING METHODS

Although there are many ways to monitor *de novo* ("from scratch") restorations and measure their performance, the approach utilized in this project emphasizes vegetation development and floristic quality assessment (FQA) methods. In summary, the vegetation is sampled along transect lines established within representative portions of each project site; a qualitative inventory of the vegetation across the entire landscape is recorded as well. These vegetation sampling protocols are repeated every year so that trends in floristic development can be monitored over time.

A critical component in the evaluation of a restoration is to determine the extent of native species recruitment and establishment across the landscape. A useful method in the determination of floristic quality is through an analysis of the conservatism and diversity of species that are recorded during the monitoring event. Conservatism represents the degree to which an experienced field botanist has confidence that a given species is representative of a high-quality, remnant habitat (i.e., those natural areas with intact presettlement structure, composition, and processes). Native plant species display varying degrees of tolerance to disturbance, as well as varying degrees of fidelity to specific habitat integrity. Native plants of a given region exhibit an observable range of conservatism, and each native species can be assigned a *coefficient of conservatism* (C value) ranging from 0 to 10, "weedy to conservative," that reflects its disposition.

The Mean C is the average coefficient of conservatism for a site. The floristic quality index (FQI) is a statistic derived by multiplying Mean C by the square root of the number of species inventoried; thus, the FQI is a function of conservatism and diversity. In general, site inventories with FQI values less than 20 are degraded or derelict plant communities, or are very small habitat remnants. Site inventories with FQI values in the twenties through low thirties suffer from various kinds of disturbance, but generally have potential for habitat restoration and recovery. When site inventories have FQI values in the middle thirties or higher, and/or have Mean C values of 3.4 or higher, one can be confident that there is sufficient native character present for the area to be at least regionally noteworthy. Site inventories with indices in the middle forties and higher are undoubtedly significant natural area remnants of statewide importance.

As management and time cause changes to take place, Mean C and FQI values will reflect the extent to which conservative species are being recruited and the floristic quality is improving. If an inventoried site has a large proportion of conservative plants, the Mean C is

higher; in a degraded site, the Mean C is lower. The presence of a large proportion of adventive species and non-conservative native species suggest that an area is degraded. The Mean C and FQI values for a sampling transect are calculated for the transect as a whole and for the average quadrat; a comparison of floristic values between the transect and quadrat level is useful to understand the uniformity of native species establishment.

Another useful measurement that is important in the evaluation of a *de novo* landscape restoration is that of the wetness value (W). Each plant species has been assigned a wetness category that indicates its probability of occurrence in a wetland. Plants are designated as *Obligate Wetland* (OBL=-5), *Facultative Wetland* (FACW=-3), *Facultative* (FAC=0), *Facultative Upland* (FACU=3), and *Obligate Upland* (UPL=5). For about 20% of our flora, a "+" or "-" sign has been attached to the three *Facultative* categories to express the exaggerated tendencies of those species. The "+" sign denotes that the species generally has a greater estimated probability of occurrence in wetlands; the "-" sign denotes that it generally has a lesser estimated probability of occurrence in wetlands. Mean wetness values can be compared from year to year to gain an understanding on what type of plant species have become established across the restoration site.

Transect locations at each of the three project sites are described below and their approximate locations are depicted on EXHIBITS A thru C.

North Side WRP

Transect 1 is located in the northeastern corner of the WRP (see EXHIBIT A, Sheet A-2). The transect begins at the southeastern end of the prairie and is oriented 315° NW. The first quadrat is placed 10 paces in from the prairie/lawn boarder; subsequent quadrats are placed at 5-pace intervals along the transect line. A total of 10 quadrats are sampled along the transect.

Transect 2 is located in the southwestern portion of the WRP (see EXHIBIT A, Sheet A-1). The transect begins at the southeastern end of the prairie and is oriented 315° NW. The first quadrat is placed 10 paces in from the prairie/lawn boarder; subsequent quadrats are placed at 20-pace intervals along the transect line. A total of 10 quadrats are sampled along the transect.

Lemont WRP

Transect 1 is located in the western portion of the WRP (see EXHIBIT B). The transect begins at the northwestern corner of the prairie and is oriented 135° SE. The first quadrat is placed at the prairie/lawn boarder; subsequent quadrats are placed at 10-pace intervals along the transect line. A total of 10 quadrats are sampled along the transect.

Transect 2 is located in the southern portion of the WRP (see EXHIBIT B). The transect begins at the southwestern corner of the prairie and is oriented 30° NE. The first quadrat is placed at the prairie/lawn boarder; subsequent quadrats are placed at 10-pace intervals along the transect line. A total of 10 quadrats are sampled along the transect.

LASMA Berm

A grid transect was deployed at the LASMA Berm so that quadrats were sampled on the north-facing slope, top of berm, and the south-facing slope (see EXHIBIT C). Starting at the northern end of the berm, quadrats were placed randomly on each

berm habitat (i.e., north face, top, south face). One quadrat was placed in each habitat at 100-pace intervals along the berm; three (3) in each habitat north of the gravel access road and four (4) in each habitat south of the access road (see EXHIBIT C). **Transect 1** includes 7 quadrats that comprise the north-facing slope; **Transect 2** includes 7 quadrats that comprise the top of berm; **Transect 3** includes 7 quadrats that comprise the south-facing slope. *[It should be noted that although the placement of all quadrats was random, there was a conscious attempt to exclude sampling within the three biosolids test plots. These test plots have yet to be finish graded and seeded with a prairie matrix.]*

All vegetation is sampled using a 0.25m² quadrat. The vegetation within each quadrat is identified and given a relative cover/abundance number from 1 to 5 as shown in Table 1 below. A compass is used to stay on the correct orientation, and photographs are taken at the start of each transect in order to document the current site conditions.

TABLE 1. COVER/ABUNDANCE NUMBERS

COVER/ ABUNDANCE NO.	APPROXIMATE COVER
1	1 to few stems present; species occupies only 1 quarter of quadrat
2	Few to several stems or clumps; species occupies 1 to 2 quarters of quadrat
3	Species occupies 2 to 3 quarters of quadrat with notable coverage in each occupied quarter
4	Species occupies 3 to 4 quarters of quadrat with regular cover throughout
5	Species dominates the entire quadrat

The cover/abundance data is used to determine the relative importance value (RIV) for each species recorded along a transect. The RIV of each species is calculated by summing relative frequency and relative cover and dividing by 2. This and other information gathered via transect sampling offers important quantitative data that is used to interpret the development of the native landscape.

RESULTS AND DISCUSSION

The results of the plant inventories and transect sampling are presented below. The field work occurred on September 23rd (Lemont and LASMA) and 28th (North Side), 2004, and was performed by Kenneth Johnson. Overall, the weather conditions during the monitoring events were sunny, with air temperatures around 80° Fahrenheit, so sampling conditions were optimum. Photographs taken during the field work are included at the back of the report. Refer to EXHIBITS A thru C for plan views of the three project sites.

GENERAL PLANT INVENTORIES AND FQA DATA

The results of the plant inventories and associated FQA data for each of the three project sites are presented in APPENDIX I. Table 2 below summarizes the total number of native species recorded during the inventory (NS), along with the percent that these native species comprise of all plants recorded (%TS) at each site. The last two columns are the native Mean C and FQI values.

TABLE 2. GENERAL PLANT INVENTORIES & FQA SUMMARY

PLANT INVENTORY & FQA DATA SUMMARY			
PROJECT SITE	NS (%TS)	MEAN C	FQI
North Side WRP	33 (44%)	1.7	10
Lemont WRP	46 (50%)	1.7	12
LASMA Berm	22 (46%)	2.3	11

Overall, the most frequently encountered species noted during the meander/inventory at all three project sites included Annual Rye Grass (cover crop) along with common annual weeds such as Barnyard Grass, Knee Grass, Giant Foxtail, Lamb's quarters, Horseweed, and Pinkweed to name a few. The most frequently encountered seeded prairie species was Black-eyed Susan, although several other prairie species were recorded as well. In addition, Burning Bush formed a dense, almost ubiquitous vegetative cover over the three biosolids test plots on the LASMA Berm. As mentioned above, these test plots have not been finish graded and, therefore, have yet to be seeded with the prairie matrix.

Based upon these data and general site observations during the 2004 calendar year, the prairie landscape at all three sites appears to be developing as expected. The FQA values are typical of native landscape creations in their early stages of establishment.

TRANSECT SAMPLING AND FQA DATA

The results of the straight-line transects are presented in APPENDIX II. As stated above, each transect runs through a representative portion of the prairie landscape at each project site (see EXHIBITS A thru C). Transect sampling helps to quantify the vegetation changes and native landscape development. A comparison of floristic values between the transect and the quadrat level data is useful to understand the uniformity of native species establishment. The data are presented separately for each of the three project sites. A photograph was taken to document the landscape appearance at the beginning of each transect line (see Photographs section at the back of report).

North Side WRP

Table 3 below presents a summary of the data collected for each transect at the North Side WRP project site. The aggregate transect data are presented separately from the average quadrat data. The number of native taxa (NT) is given, along with the native Mean C, and the native FQI.

TABLE 3. NORTH SIDE WRP – TRANSECT SUMMARY

TRANSECT	TRANSECT DATA SUMMARY			AVE QUADRAT DATA SUMMARY		
	NT	MEAN C	FQI	NT	MEAN C	FQI
T1	14	2.1	8	3.3	1.6	2.8
T2	11	2.2	7.2	2.3	1.3	2.2

Tables 4 and 5 below summarize the relative importance values (RIV) for the top 50% of species from each transect. Following each native species is its assigned C value (in parenthesis). Adventive species are in ALL CAPS. Species followed by an asterisk (*) were introduced to the site as part of the initial prairie seed installation.

TABLE 4. NORTH SIDE WRP – TRANSECT 1 RELATIVE IMPORTANCE VALUES (RIV)

SPECIES (C VALUE)	RIV 2004	RIV 2005
TRIFOLIUM HYBRIDUM	15.0	
LOLIUM MULTIFLORUM	14.8	
Rudbeckia hirta (1)*	8.6	
Panicum dichotomiflorum (0)	5.7	
Echinochloa crusgalli (0)	5.3	
HIBISCUS TRIONUM	5.1	

TABLE 5. NORTH SIDE WRP – TRANSECT 2 RELATIVE IMPORTANCE VALUES (RIV)

SPECIES (C VALUE)	RIV 2004	RIV 2005
TRIFOLIUM HYBRIDUM	26.5	
LOLIUM MULTIFLORUM	21.5	
Rudbeckia hirta (1)*	9.6	

Alsike Clover (*Trifolium hybridum*) is very common across the prairie conversion landscape at this site. Other species recorded along the two monitoring transects are listed in APPENDIX II. These data represent baseline information to which future monitoring can be compared.

Lemont WRP

Table 6 below presents a summary of the data collected for each transect at the Lemont WRP project site. The aggregate transect data are presented separately from the average quadrat data. The number of native taxa (NT) is given, along with the native Mean C, and the native FQI.

TABLE 6. LEMONT WRP – TRANSECT SUMMARY

TRANSECT	TRANSECT DATA SUMMARY			AVE QUADRAT DATA SUMMARY		
	NT	MEAN C	FQI	NT	MEAN C	FQI
T1	15	1.2	5	4.7	1.0	2.3
T2	21	1.5	7	3.9	1.3	2.6

Tables 7 and 8 below summarize the relative importance values (RIV) for the top 50% of species from each transect. Following each native species is its assigned C value (in parenthesis). Adventive species are in ALL CAPS. Species followed by an asterisk (*) were introduced to the site as part of the initial prairie seed installation.

TABLE 7. LEMONT WRP – TRANSECT 1 RELATIVE IMPORTANCE VALUES (RIV)

SPECIES (C VALUE)	RIV 2004	RIV 2005
Rudbeckia hirta (1)*	15.2	
Solanum americanum (0)	11.1	
Oxalis stricta (0)	8.4	
Polygonum pennsylvanicum (0)	5.7	
CHENOPODIUM ALBUM	5.3	
Heliopsis helianthoides (5)*	5.3	

TABLE 8. LEMONT WRP – TRANSECT 2 RELATIVE IMPORTANCE VALUES (RIV)

SPECIES (C VALUE)	RIV 2004	RIV 2005
CIRSIUM ARVENSE	8.3	
TARAXACUM OFFICINALE	8.2	
Oxalis stricta (0)	7.5	
Rudbeckia hirta (1)*	6.8	
POLYGONUM PERSICARIA	6.6	
Solanum americanum (0)	5.0	
Eupatorium altissimum (0)	3.9	
Panicum dichotomiflorum (0)	3.9	

Even with herbicide applications during the growing season, Field Thistle (*Cirsium arvense*), a perennial weed, was relatively common in the prairie landscape at the Lemont WRP. Over time and with continued management, this species (and other weeds) should wane from the prairie landscape. Other species recorded along the two monitoring transects are listed in APPENDIX II. It is interesting to note that at North Side WRP (see Tables 4 and 5 above) and the LASMA Berm (see Tables 10—12 below) the cover crop of Annual Rye (*Lolium multiflorum*) was a dominant species sampled along each transect, whereas it was not recorded along either of the two transects at Lemont WRP. These data represent baseline information to which future monitoring can be compared.

LASMA Berm

Table 9 below presents a summary of the data collected for each transect at the LASMA Berm project site. The aggregate transect data are presented separately from the average quadrat data. The number of native taxa (NT) is given, along with the native Mean C, and the native FQI.

TABLE 9. LASMA BERM – TRANSECT DATA SUMMARY

TRANSECT	TRANSECT DATA SUMMARY			AVE QUADRAT DATA SUMMARY		
	NT	MEAN C	FQI	NT	MEAN C	FQI
T1	5	0.4	1	2.0	0.3	0.4
T2	6	2.3	6	1.3	1.5	1.7
T3	7	1.7	5	1.4	1.3	1.5

Tables 10, 11, and 12 below summarize the relative importance values (RIV) for the top 50% of species from each transect. Following each native species is its assigned C value (in parenthesis). Adventive species are in ALL CAPS. Species followed by an asterisk (*) were introduced to the site as part of the initial prairie seed installation.

TABLE 10. LASMA BERM – TRANSECT 1 RELATIVE IMPORTANCE VALUES (RIV)

SPECIES (C VALUE)	RIV 2004	RIV 2005
Echinochloa crusgalli (0)	27.1	
LOLIUM MULTIFLORUM	18.3	
Panicum dichotomiflorum (0)	10.0	

TABLE 11. LASMA BERM – TRANSECT 2 RELATIVE IMPORTANCE VALUES (RIV)

SPECIES (C VALUE)	RIV 2004	RIV 2005
LOLIUM MULTIFLORUM	46.7	
Echinochloa crusgalli (0)	14.4	

TABLE 12. LASMA BERM – TRANSECT 3 RELATIVE IMPORTANCE VALUES (RIV)

SPECIES (C VALUE)	RIV 2004	RIV 2005
[SOIL]	31.0	
Echinochloa crusgalli (0)	18.7	
LOLIUM MULTIFLORUM	14.5	

Barnyard Grass (*Echinochloa crusgalli*) and the primary cover crop (*Lolium multiflorum*) are very common across the prairie conversion landscape at this site. Other species recorded along the two monitoring transects are listed in APPENDIX II. In addition, portions of the south-facing slope (as sampled by Transect 3) are relatively barren of vegetative cover and erosion rills have developed. And, as mentioned earlier, Burning Bush formed a dense, almost ubiquitous vegetative cover over the three biosolids test plots on the LASMA Berm. These test plots have not been finish graded and, therefore, have yet to be seeded with the prairie matrix. These data represent baseline information to which future monitoring can be compared.

SEEDED SPECIES RECRUITMENT

Alphabetical lists of the native species seeded as part of the initial prairie installation at each of the three project sites are presented in APPENDIX III. Each species is listed along with its C value (in parenthesis). If the species was recorded from the site during the 2004-monitoring event it is indicated with a "Y", and if not it is indicated with a "N". The columns to the right summarize the RIV of each species if recorded during the transect sampling. A summary of these data are presented in Table 13.

TABLE 13. SEEDED SPECIES RECRUITMENT

YEAR	NORTH SIDE WRP		LASMA BERM		LEMONT WRP	
	NO. SPECIES	MEAN C	NO. SPECIES	MEAN C	NO. SPECIES	MEAN C
Initial Seeding	23	5.3	23	5.3	17	4.7
2004	11	4.4	9	4.2	10	4.5

At North Side WRP, eleven (11) of the 23 seeded species were recorded during the monitoring event in September of 2004. Black-eyed Susan was in the top 50% RIV in both transects as well. At Lemont WRP, nine (9) of the 23 seeded species were recorded during the monitoring event in September of 2004. Black-eyed Susan was in the top 50% RIV in both transects as well; False Sunflower was in the 50% RIV in Transect 1. At LASMA Berm, ten (10) of the 17 seeded species were recorded during the monitoring event in September 2004; none of these were in the top 50% RIV in the transect sampling.

Future restoration monitoring should be compared to these data in order to show trends in the establishment of the intended native landscape. With time and proper land management there should be an increase in native species recruitment and quality across all areas of the restoration site. In general, after four (4) full-growing seasons approximately 40% of the seeded species should be recorded in a site inventory—and if so, then the initial seeding should be considered satisfactory.

The native Mean W of each project site is summarized in Table 14 below and includes the Mean W of the initial seeding. This information can be used to inform native plant selection in future species enhancement efforts.

TABLE 14. MEAN W VALUES

	NORTH SIDE WRP	LEMONT WRP	LASMA BERM
YEAR	MEAN W	MEAN W	MEAN W
Initial Seeding	2.0	2.0	2.5
2004	2.7	2.6	2.1

SUMMARY AND MANAGEMENT RECOMMENDATIONS

As presented above, land management activities conducted across these three *de novo* prairie creation landscapes during the summer and fall of 2004 included weed control via mowing events and spot herbicide applications. The results of the vegetation monitoring are typical of prairie landscapes that are in their early establishment phase. A number of seeded prairie plants were recorded from all three sites during the September monitoring event, including Black-eyed Susan, Yellow Coneflower, and Wild Canada Rye to name a few species.

Though relatively minor in scope, there are four issues of note in regards to the initial prairie vegetation establishment at these sites.

- 1) There is a small disturbed area within the prairie landscape at the North Side WRP that resulted from excavation to repair an underground water pipe. Based upon a conversation with the facility engineer, MWRDGC personnel re-graded this area in the fall of 2004. It is recommended that seed of common prairie species be broadcast across this area prior to the 2005 growing season; note that this re-seeding effort is not within the landscape contractor's scope of work.
- 2) Field Thistle and Cut-leaved Teasel weeds are present in some of the adjacent peripheral areas at the Lemont WRP. It is recommended that these areas be mowed and treated with herbicide in order to prevent unwanted seed dispersal into the prairie landscape; note that this action is not within the landscape contractor's scope of work.
- 3) The slopes at the LASMA Berm should be monitored for soil erosion. It may be necessary to re-grade and re-seed some areas in 2005 if soil erosion is a problem; if so, note that this action is not within the landscape contractor's scope of work.
- 4) It is recommended that the three biosolids test plots on the LASMA Berm be finish-graded so that these areas can be seeded with a cover crop and the prairie seed matrix. Seeding is the responsibility of the landscape contractor; however, grading and final soil preparation is to be completed by the MWRDGC.

With proper management, there is reason to expect that prairie vegetation will be more conspicuous next year than in this first year of landscape establishment. On-going management activities for the 2005 growing season that will be conducted by the landscape contractors under their current contracts include continued weed control via mowing and spot herbicide applications. Staff from CDF will coordinate these on-going management activities and will perform annual vegetation monitoring.

GENERAL REFERENCES

The following documents were reviewed and referenced in the preparation of this report.

Conservation Design Forum. 2004. Native Landscape Installation Summary Report MWRDGC North Side, Lemont and LASMA Berm Sites. Elmhurst, IL.

Conservation Design Forum. 2003. MWRDGC Natural Landscape Assessment Report. Elmhurst, IL.

Swink, F. and G. Wilhelm. 1994. Plants of the Chicago Region, 4th edition. Indiana Academy of Science. Indianapolis, Indiana.

Taft, J., G. Wilhelm, D. Ladd, and L. Masters. 1997. Floristic Quality Assessment for Vegetation in Illinois: A Method for Assessing Vegetation Integrity. *Erigenia* 14, pp. 3-95.

Wilhelm, G. and L. Masters. 1999. Floristic Quality Assessment and Computer Applications. Conservation Research Institute. Elmhurst, IL.

APPENDIX I

VEGETATION INVENTORIES & FLORISTIC QUALITY ASSESSMENT

The following is a summary of the inventory data generated using Wilhelm and Masters' *Floristic Quality Assessment and Computer Applications*, 1999. Plant nomenclature follows Swink and Wilhelm's *Plants of the Chicago Region*, 1994. More information on floristic quality assessment methodology can be found in *Erigenia*, number 15, November, 1997. Each plant inventory and assessment is divided into 2 sections as follows.

Section 1 includes three tables that summarize the inventory assessment data. The table to the left is an analysis of the floristic quality of the project area. In addition to listing the number of native species and total number of species, the mean coefficient of conservatism (MEAN C), floristic quality index (FQI), and mean wetness (MEAN W) values are presented. These are calculated once for native species only, and a second time including adventive species (W/Adventives). The two other tables summarize the number and percent of species in each physiognomic group (A=annual, B=biennial, P=perennial, W=woody, H=herbaceous).

Section 2 includes the plant inventory arranged alphabetically, with each species preceded by its database acronym and coefficient of conservatism (C=0 to 10, weedy to conservative); and followed by its wetness coefficient (W=-5 to +5, wet to dry), corresponding national wetland indicator status (OBL=obligate wetland species, FAC=facultative species, UPL=upland species), physiognomic group, and common name. Adventive species are written in ALL CAPS and have an asterisk (*) for their C value.

The Mean C is the average coefficient of conservatism for the site. The FQI is derived by multiplying Mean C by the square root of the number of species present. In general, sites with FQI values less than twenty are degraded or derelict plant communities, or are very small habitat remnants. Sites with FQI values in the twenties through low thirties suffer from various kinds of disturbance, but generally have potential for habitat restoration and recovery. When sites have FQI values in the middle thirties or higher, one can be confident that there is sufficient native character present for the area to be at least regionally noteworthy. Sites with indices in the middle forties and higher are often also statewide significant natural areas.

Site: North Side WRP - Prairie Landscapes
 Locale: Skokie, IL
 Date: September 28, 2004
 By: Conservation Design Forum (K Johnson)

SECTION 1. SUMMARY TABLES

FLORISTIC QUALITY DATA	Native	33	44.0%	Adventive	42	56.0%
33 NATIVE SPECIES	Tree	2	2.7%	Tree	1	1.3%
75 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
1.7 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.7 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
9.6 NATIVE FQI	P-Forb	12	16.0%	P-Forb	12	16.0%
6.4 W/Adventives	B-Forb	1	1.3%	B-Forb	6	8.0%
1.7 NATIVE MEAN W	A-Forb	10	13.3%	A-Forb	14	18.7%
2.3 W/Adventives	P-Grass	5	6.7%	P-Grass	4	5.3%
AVG: Fac. Upland (+)	A-Grass	3	4.0%	A-Grass	5	6.7%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

SECTION 2. SPECIES INVENTORY

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ABUTHE	0 ABUTILON THEOPHRASTI	4 FACU-	Ad A-Forb	VELVETLEAF
ACARHO	0 Acalypha rhomboidea	3 FACU	Nt A-Forb	THREE-SEEDED MERCURY
ACENEG	0 Acer negundo	-2 FACW-	Nt Tree	BOX ELDER
ACESAI	0 Acer saccharinum	-3 FACW	Nt Tree	SILVER MAPLE
AMARET	0 AMARANTHUS RETROFLEXUS	2 FACU+	Ad A-Forb	ROUGH AMARANTH
AMBARE	0 Ambrosia artemisiifolia elatior	3 FACU	Nt A-Forb	COMMON RAGWEED
ANDGER	5 Andropogon gerardii	1 FAC-	Nt P-Grass	BIG BLUESTEM GRASS
ARCMIN	0 ARCTIUM MINUS	5 UPL	Ad B-Forb	COMMON BURDOCK
ASTNOV	4 Aster novae-angliae	-3 FACW	Nt P-Forb	NEW ENGLAND ASTER
ASTPIL	0 Aster pilosus	2 FACU+	Nt P-Forb	HAIRY ASTER
ASTSUB	0 ASTER SUBULATUS	3 [FACU]	Ad A-Forb	EXPRESSWAY ASTER
ATRPAT	0 ATRIPLEX PATULA	-2 FACW-	Ad A-Forb	COMMON ORACH
AVESAT	0 AVENA SATIVA	5 UPL	Ad A-Grass	OATS
BOUCUR	8 Bouteloua curtipendula	5 UPL	Nt P-Grass	SIDE-OATS GRAMA
BRANIG	0 BRASSICA NIGRA	5 UPL	Ad A-Forb	BLACK MUSTARD
CHEALB	0 CHENOPODIUM ALBUM	1 FAC-	Ad A-Forb	LAMB'S QUARTERS
CICINT	0 CICHORIUM INTYBUS	5 UPL	Ad P-Forb	CHICORY
CIRARV	0 CIRSIUM ARVENSE	5 UPL	Ad P-Forb	FIELD THISTLE
CIRVUL	0 CIRSIUM VULGARE	4 FACU-	Ad B-Forb	BULL THISTLE
CONARV	0 CONVULVULUS ARVENSIS	5 UPL	Ad P-Forb	FIELD BINDWEED
CORLAN	5 Coreopsis lanceolata	3 FACU	Nt P-Forb	SAND COREOPSIS
DACGLO	0 DACTYLIS GLOMERATA	3 FACU	Ad P-Grass	ORCHARD GRASS
DAUCAR	0 DAUCUS CAROTA	5 UPL	Ad B-Forb	QUEEN ANNE'S LACE
ECHPUR	3 Echinacea purpurea	5 UPL	Nt P-Forb	BROAD-LEAVED PURPLE CONEFLOWER
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNEYARD GRASS
ELYCAN	4 Elymus canadensis	1 FAC-	Nt P-Grass	CANADA WILD RYE
ERAPOA	0 ERAGROSTIS POAEOIDES	5 UPL	Ad A-Grass	LOW LOVE GRASS
ERASPE	3 Eragrostis spectabilis	5 UPL	Nt P-Grass	PURPLE LOVE GRASS
EREHIE	2 Erechtites hieracifolia	3 FACU	Nt A-Forb	FIREWEED
ERIAN	0 Erigeron annuus	1 FAC-	Nt B-Forb	ANNUAL FLEABANE
ERICAN	0 Erigeron canadensis	1 FAC-	Nt A-Forb	HORSEWEED
EUPSEM	0 Eupatorium serotinum	-1 FAC+	Nt P-Forb	LATE BONESET
EUPSUP	0 Euphorbia supina	4 FACU-	Nt A-Forb	SPOTTED CREEPING SPURGE
FESELA	0 FESTUCA ELATIOR	2 FACU+	Ad P-Grass	TALL FESCUE
HELHEL	5 Heliopsis helianthoides	5 UPL	Nt P-Forb	FALSE SUNFLOWER
HIBTRI	0 HIBISCUS TRIONUM	5 UPL	Ad A-Forb	FLOWER-OF-AN-HOUR
JUNTEN	0 Juncus tenuis	2 [FACU+]	Nt P-Forb	PATH RUSH
LACSER	0 LACTUCA SERRIOLA	0 FAC	Ad B-Forb	PRICKLY LETTUCE
LEPCAM	0 LEPIDIUM CAMPESTRE	5 UPL	Ad B-Forb	FIELD CRESS
LEPVIR	0 Lepidium virginicum	4 FACU-	Nt A-Forb	COMMON PEPPERCRESS
LOLMUL	0 LOLIUM MULTIFLORUM	5 UPL	Ad A-Grass	ITALIAN RYE GRASS
LOLPER	0 LOLIUM PERENNE	3 FACU	Ad P-Grass	PERENNIAL RYE GRASS
MATMAT	0 MATRICARIA MATRICARIOIDES	3 FACU	Ad A-Forb	PINEAPPLE WEED

MEDLUP	0	MEDICAGO LUPULINA	1	FAC-	Ad	A-Forb	BLACK MEDICK
MEDSAT	0	MEDICAGO SATIVA	5	UPL	Ad	P-Forb	ALFALFA
MELALB	0	MELILOTUS ALBA	3	FACU	Ad	B-Forb	WHITE SWEET CLOVER
MONFIS	4	Monarda fistulosa	3	FACU	Nt	P-Forb	WILD BERGAMOT
MORALB	0	MORUS ALBA	0	FAC	Ad	Tree	WHITE MULBERRY
OXASTR	0	Oxalis stricta	5	UPL	Nt	P-Forb	COMMON WOOD SORREL
PANCAP	1	Panicum capillare	0	FAC	Nt	A-Grass	OLD WITCH GRASS
PANDII	0	Panicum dichotomiflorum	-2	FACW-	Nt	A-Grass	KNEE GRASS
PLALAN	0	PLANTAGO LANCEOLATA	0	FAC	Ad	P-Forb	ENGLISH PLANTAIN
PLAMAJ	0	PLANTAGO MAJOR	-1	FAC+	Ad	P-Forb	COMMON PLANTAIN
PLARUG	0	Plantago rugelii	0	FAC	Nt	A-Forb	RED-STALKED PLANTAIN
POAPRA	0	POA PRATENSIS	1	FAC-	Ad	P-Grass	KENTUCKY BLUE GRASS
POLAVI	0	POLYGONUM AVICULARE	1	FAC-	Ad	A-Forb	COMMON KNOTWEED
POLPEN	0	Polygonum pensylvanicum	-4	FACW+	Nt	A-Forb	PINKWEED
POLPER	0	POLYGONUM PERSICARIA	1	[FAC-]	Ad	A-Forb	LADY'S THUMB
POTNOR	0	Potentilla norvegica	0	FAC	Nt	A-Forb	NORWAY CINQUEFOIL
RATPIN	4	Ratibida pinnata	5	UPL	Nt	P-Forb	YELLOW CONEFLOWER
RUDHIR	1	Rudbeckia hirta	3	FACU	Nt	P-Forb	BLACK-EYED SUSAN
RUMCRI	0	RUMEX CRISPUS	-1	FAC+	Ad	P-Forb	CURLY DOCK
SENVUL	0	SENECIO VULGARIS	5	UPL	Ad	A-Forb	COMMON GROUNDSEL
SETFAB	0	SETARIA FABERI	2	FACU+	Ad	A-Grass	GIANT FOXTAIL
SETVIV	0	SETARIA VIRIDIS	1	[FAC-]	Ad	A-Grass	GREEN FOXTAIL
SOLAME	0	Solanum americanum	4	FACU-	Nt	A-Forb	BLACK NIGHTSHADE
SOLALT	1	Solidago altissima	3	FACU	Nt	P-Forb	TALL GOLDENROD
SONASP	0	SONCHUS ASPER	3	[FACU]	Ad	A-Forb	SPINY SOW THISTLE
SONOLE	0	SONCHUS OLERACEUS	5	[UPL]	Ad	A-Forb	STORE-FRONT SOW THISTLE
SONULI	0	SONCHUS ULIGINOSUS	1	FAC-	Ad	P-Forb	COMMON SOW THISTLE
SORNUT	5	Sorghastrum nutans	2	FACU+	Nt	P-Grass	INDIAN GRASS
TAROFF	0	TARAXACUM OFFICINALE	3	FACU	Ad	P-Forb	COMMON DANDELION
TRIHYP	0	TRIFOLIUM HYBRIDUM	1	FAC-	Ad	P-Forb	ALSIKE CLOVER
TRIPRA	0	TRIFOLIUM PRATENSE	5	UPL	Ad	P-Forb	RED CLOVER
TRIREP	0	TRIFOLIUM REPENS	2	FACU+	Ad	P-Forb	WHITE CLOVER

Site: **Lemont WRP - Prairie Landscapes**
 Locale: Lemont, IL
 Date: September 23, 2004
 By: Conservation Design Forum (K Johnson)

SECTION 1. SUMMARY TABLES

FLORISTIC QUALITY DATA	Native	46	50.0%	Adventive	46	50.0%
46 NATIVE SPECIES	Tree	3	3.3%	Tree	2	2.2%
92 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
1.7 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.9 W/Adventives	H-Vine	1	1.1%	H-Vine	0	0.0%
11.6 NATIVE FQI	P-Forb	17	18.5%	P-Forb	12	13.0%
8.2 W/Adventives	B-Forb	2	2.2%	B-Forb	12	13.0%
1.0 NATIVE MEAN W	A-Forb	14	15.2%	A-Forb	11	12.0%
1.8 W/Adventives	P-Grass	4	4.3%	P-Grass	4	4.3%
AVG: Faculative (-)	A-Grass	4	4.3%	A-Grass	5	5.4%
	P-Sedge	1	1.1%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

SECTION 2. SPECIES INVENTORY

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ABUTHE	0 ABUTILON THEOPHRASTI	4 FACU-	Ad A-Forb	VELVETLEAF
ACARHO	0 Acalypha rhomboidea	3 FACU	Nt A-Forb	THREE-SEEDED MERCURY
ACENEG	0 Acer negundo	-2 FACW-	Nt Tree	BOX ELDER
ACESAI	0 Acer saccharinum	-3 FACW	Nt Tree	SILVER MAPLE
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
AILALT	0 AILANTHUS ALTISSIMA	5 UPL	Ad Tree	TREE OF HEAVEN
ALLPET	0 ALLIARIA PETIOLATA	0 FAC	Ad B-Forb	GARLIC MUSTARD
AMAALB	0 AMARANTHUS ALBUS	3 FACU	Ad A-Forb	TUMBLEWEED
AMARET	0 AMARANTHUS RETROFLEXUS	2 FACU+	Ad A-Forb	ROUGH AMARANTH
AMBARE	0 Ambrosia artemisiifolia elatior	3 FACU	Nt A-Forb	COMMON RAGWEED
ARCMIN	0 ARCTIUM MINUS	5 UPL	Ad B-Forb	COMMON BURDOCK
ARTANN	0 ARTEMISIA ANNUA	3 FACU	Ad A-Forb	SWEET WORMWOOD
ARTBIE	0 ARTEMISIA BIENNIS	-2 FACW-	Ad A-Forb	BIENNIAL WORMWOOD
ASCINC	4 Asclepias incarnata	-5 OBL	Nt P-Forb	SWAMP MILKWEED
ASTNOV	4 Aster novae-angliae	-3 FACW	Nt P-Forb	NEW ENGLAND ASTER
ASTPIL	0 Aster pilosus	2 FACU+	Nt P-Forb	HAIRY ASTER
ATRPAT	0 ATRIPLEX PATULA	-2 FACW-	Ad A-Forb	COMMON ORACH
AVESAT	0 AVENA SATIVA	5 UPL	Ad A-Grass	OATS
BIDFRO	1 Bidens frondosa	-3 FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
BOUCUR	8 Bouteloua curtipendula	5 UPL	Nt P-Grass	SIDE-OATS GRAMA
CARNUT	0 CARDUUS NUTANS	5 UPL	Ad B-Forb	MUSK THISTLE
CERVUL	0 CERASTIUM VULGATUM	3 FACU	Ad P-Forb	MOUSE-EAR CHICKWEED
CHEALB	0 CHENOPIDIUM ALBUM	1 FAC-	Ad A-Forb	LAMB'S QUARTERS
CHELEP	5 Chenopodium leptophyllum	5 [UPL]	Nt A-Forb	NARROW-LEAVED GOOSEFOOT
CIRARV	0 CIRSIUM ARVENSE	5 UPL	Ad P-Forb	FIELD THISTLE
CIRVUL	0 CIRSIUM VULGARE	4 FACU-	Ad B-Forb	BULL THISTLE
CONARV	0 CONVULVULUS ARVENSIENSIS	5 UPL	Ad P-Forb	FIELD BINDWEED
CYPESC	0 Cyperus esculentus	-1 [FAC+]	Nt P-Sedge	FIELD NUT SEDGE
DAUCAR	0 DAUCUS CAROTA	5 UPL	Ad B-Forb	QUEEN ANNE'S LACE
DIPLAC	0 DIPSACUS LACINIATUS	5 UPL	Ad B-Forb	CUT-LEAVED TEASEL
ECHPUR	3 Echinacea purpurea	5 UPL	Nt P-Forb	BROAD-LEAVED PURPLE CONEFLOWER
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
ELYCAN	4 Elymus canadensis	1 FAC-	Nt P-Grass	CANADA WILD RYE
EPICOL	3 Epilobium coloratum	-5 OBL	Nt P-Forb	CINNAMON WILLOW HERB
ERAPEC	0 Eragrostis pectinacea	0 FAC	Nt A-Grass	SMALL LOVE GRASS
ERASPE	3 Eragrostis spectabilis	5 UPL	Nt P-Grass	PURPLE LOVE GRASS
EREHIE	2 Erechtites hieracifolia	3 FACU	Nt A-Forb	FIREWEED
ERICAN	0 Erigeron canadensis	1 FAC-	Nt A-Forb	HORSEWEED
EUPALT	0 Eupatorium altissimum	3 [FACU]	Nt P-Forb	TALL BONESET
EUPRUG	4 Eupatorium rugosum	5 UPL	Nt P-Forb	WHITE SNAKEROOT
EUPSEM	0 Eupatorium serotinum	-1 FAC+	Nt P-Forb	LATE BONESET
EUPSUP	0 Euphorbia supina	4 FACU-	Nt A-Forb	SPOTTED CREEPING SPURGE
FESELA	0 FESTUCA ELATIOR	2 FACU+	Ad P-Grass	TALL FESCUE

GEUCAN	1	Geum canadense	0	FAC	Nt	P-Forb	WOOD AVENS
GLEHED	0	GLECHOMA HEDERACEA	3	FACU	Ad	P-Forb	CREEPING CHARLIE
HELHEL	5	Heliopsis helianthoides	5	UPL	Nt	P-Forb	FALSE SUNFLOWER
HIBTRI	0	HIBISCUS TRIONUM	5	UPL	Ad	A-Forb	FLOWER-OF-AN-HOUR
LACCAN	2	Lactuca canadensis	2	FACU+	Nt	B-Forb	WILD LETTUCE
LACSAL	0	LACTUCA SALIGNA	3	FACU	Ad	B-Forb	WILLOW LETTUCE
LACSER	0	LACTUCA SERRIOLA	0	FAC	Ad	B-Forb	PRICKLY LETTUCE
LEOCAR	0	LEONURUS CARDIACA	5	UPL	Ad	P-Forb	MOTHERWORT
LEPCAM	0	LEPIDIUM CAMPESTRE	5	UPL	Ad	B-Forb	FIELD CRESS
LEPVIR	0	Lepidium virginicum	4	FACU-	Nt	A-Forb	COMMON PEPPERCRESS
LOLMUL	0	LOLIUM MULTIFLORUM	5	UPL	Ad	A-Grass	ITALIAN RYE GRASS
MALNEG	0	MALVA NEGLECTA	5	UPL	Ad	B-Forb	COMMON MALLOW
MEDLUP	0	MEDICAGO LUPULINA	1	FAC-	Ad	A-Forb	BLACK MEDICK
MELALB	0	MELILOTUS ALBA	3	FACU	Ad	B-Forb	WHITE SWEET CLOVER
MONFIS	4	Monarda fistulosa	3	FACU	Nt	P-Forb	WILD BERGAMOT
MORALB	0	MORUS ALBA	0	FAC	Ad	Tree	WHITE MULBERRY
NEPCAT	0	NEPETA CATARIA	1	FAC-	Ad	P-Forb	CATNIP
OENBIE	0	Oenothera biennis	3	FACU	Nt	B-Forb	COMMON EVENING PRIMROSE
OXASTR	0	Oxalis stricta	5	UPL	Nt	P-Forb	COMMON WOOD SORREL
PANCAP	1	Panicum capillare	0	FAC	Nt	A-Grass	OLD WITCH GRASS
PANDII	0	Panicum dichotomiflorum	-2	FACW-	Nt	A-Grass	KNEE GRASS
PANVIR	5	Panicum virgatum	-1	FAC+	Nt	P-Grass	SWITCH GRASS
PHYAME	1	Phytolacca americana	1	FAC-	Nt	P-Forb	POKEWEED
PLARUG	0	Plantago rugelii	0	FAC	Nt	A-Forb	RED-STALKED PLANTAIN
POAPRA	0	POA PRATENSIS	1	FAC-	Ad	P-Grass	KENTUCKY BLUE GRASS
POLAVI	0	POLYGONUM AVICULARE	1	FAC-	Ad	A-Forb	COMMON KNOTWEED
POLLAP	0	Polygonum lapathifolium	-4	FACW+	Nt	A-Forb	HEARTSEASE
POLPEN	0	Polygonum pennsylvanicum	-4	FACW+	Nt	A-Forb	PINKWEED
POLPER	0	POLYGONUM PERSICARIA	1	[FAC-]	Ad	A-Forb	LADY'S THUMB
POLSCN	1	Polygonum scandens	0	FAC	Nt	H-Vine	CLIMBING FALSE BUCKWHEAT
POPDEL	2	Populus deltoides	-1	FAC+	Nt	Tree	EASTERN COTTONWOOD
POTNOR	0	Potentilla norvegica	0	FAC	Nt	A-Forb	NORWAY CINQUEFOIL
RATPIN	4	Ratibida pinnata	5	UPL	Nt	P-Forb	YELLOW CONEFLOWER
RORPAF	4	Rorippa palustris fernaldiana	-5	OBL	Nt	A-Forb	MARSH CRESS
RUDHIR	1	Rudbeckia hirta	3	FACU	Nt	P-Forb	BLACK-EYED SUSAN
RUMCRI	0	RUMEX CRISPUS	-1	FAC+	Ad	P-Forb	CURLY DOCK
SETFAB	0	SETARIA FABERI	2	FACU+	Ad	A-Grass	GIANT FOXTAIL
SETVER	0	SETARIA VERTICILLATA	3	FACU	Ad	A-Grass	BRISTLY FOXTAIL
SETVIV	0	SETARIA VIRIDIS	1	[FAC-]	Ad	A-Grass	GREEN FOXTAIL
SOLAME	0	Solanum americanum	4	FACU-	Nt	A-Forb	BLACK NIGHTSHADE
SOLALT	1	Solidago altissima	3	FACU	Nt	P-Forb	TALL GOLDENROD
SOLSEM	0	SOLIDAGO SEMPERVIRENS	3	[FACU]	Ad	P-Forb	SEASIDE GOLDENROD
SONULI	0	SONCHUS ULIGINOSUS	1	FAC-	Ad	P-Forb	COMMON SOW THISTLE
TAROFF	0	TARAXACUM OFFICINALE	3	FACU	Ad	P-Forb	COMMON DANDELION
TRIHVB	0	TRIFOLIUM HYBRIDUM	1	FAC-	Ad	P-Forb	ALSIKE CLOVER
TRIPRA	0	TRIFOLIUM PRATENSE	5	UPL	Ad	P-Forb	RED CLOVER
TRIFLA	0	TRIODIA FLAVA	5	UPL	Ad	P-Grass	FALSE REDTOP
VERTHA	0	VERBASCUM THAPSUS	5	UPL	Ad	B-Forb	COMMON MULLEIN
VERSIM	6	Verbena simplex	5	UPL	Nt	P-Forb	NARROW-LEAVED VERVAIN

Site: **LASMA Berm - Prairie Landscape**
 Locale: Willow Springs, IL
 Date: September 23, 2004
 By: Conservation Design Forum (K Johnson)

SECTION 1. SUMMARY TABLES

FLORISTIC QUALITY DATA	Native	22	45.8%	Adventive	26	54.2%
22 NATIVE SPECIES	Tree	2	4.2%	Tree	1	2.1%
48 Total Species	Shrub	0	0.0%	Shrub	1	2.1%
2.3 NATIVE MEAN C	W-Vine	1	2.1%	W-Vine	1	2.1%
1.1 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
10.9 NATIVE FQI	P-Forb	8	16.7%	P-Forb	4	8.3%
7.4 W/Adventives	B-Forb	0	0.0%	B-Forb	4	8.3%
0.6 NATIVE MEAN W	A-Forb	4	8.3%	A-Forb	9	18.8%
1.9 W/Adventives	P-Grass	5	10.4%	P-Grass	1	2.1%
AVG: Faculative (-)	A-Grass	2	4.2%	A-Grass	5	10.4%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

SECTION 2. SPECIES INVENTORY

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ABUTHE	0 ABUTILON THEOPHRASTI	4 FACU-	Ad A-Forb	VELVETLEAF
ACENEG	0 Acer negundo	-2 FACW-	Nt Tree	BOX ELDER
ACNTAM	0 ACNIDA TAMARISCINA	-3 FACW	Ad A-Forb	WESTERN WATER HEMP
AILALT	0 AILANTHUS ALTISSIMA	5 UPL	Ad Tree	TREE OF HEAVEN
AMAALB	0 AMARANTHUS ALBUS	3 FACU	Ad A-Forb	TUMBLEWEED
AMARET	0 AMARANTHUS RETROFLEXUS	2 FACU+	Ad A-Forb	ROUGH AMARANTH
ANDGER	5 Andropogon gerardii	1 FAC-	Nt P-Grass	BIG BLUESTEM GRASS
ARCMIN	0 ARCTIUM MINUS	5 UPL	Ad B-Forb	COMMON BURDOCK
ASTNOV	4 Aster novae-angliae	-3 FACW	Nt P-Forb	NEW ENGLAND ASTER
ASTPIL	0 Aster pilosus	2 FACU+	Nt P-Forb	HAIRY ASTER
AVESAT	0 AVENA SATIVA	5 UPL	Ad A-Grass	OATS
BOUCUR	8 Bouteloua curtipendula	5 UPL	Nt P-Grass	SIDE-OATS GRAMA
BRANIG	0 BRASSICA NIGRA	5 UPL	Ad A-Forb	BLACK MUSTARD
CHEALB	0 CHENOPODIUM ALBUM	1 FAC-	Ad A-Forb	LAMB'S QUARTERS
CIRARV	0 CIRSIUM ARVENSE	5 UPL	Ad P-Forb	FIELD THISTLE
COSBIP	0 COSMOS BIPINNATUS	-2 FACW-	Ad A-Forb	COMMON COSMOS
DAUCAR	0 DAUCUS CAROTA	5 UPL	Ad B-Forb	QUEEN ANNE'S LACE
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
ELYCAN	4 Elymus canadensis	1 FAC-	Nt P-Grass	CANADA WILD RYE
ERICAN	0 Erigeron canadensis	1 FAC-	Nt A-Forb	HORSEWEED
HELHEL	5 Heliopsis helianthoides	5 UPL	Nt P-Forb	FALSE SUNFLOWER
KOCSCO	0 KOCHIA SCOPARIA	4 FACU-	Ad A-Forb	BURNING BUSH
LOLMUL	0 LOLIUM MULTIFLORUM	5 UPL	Ad A-Grass	ITALIAN RYE GRASS
MALNEG	0 MALVA NEGLECTA	5 UPL	Ad B-Forb	COMMON MALLOW
MELALB	0 MELILOTUS ALBA	3 FACU	Ad B-Forb	WHITE SWEET CLOVER
MONFIS	4 Monarda fistulosa	3 FACU	Nt P-Forb	WILD BERGAMOT
PANDII	0 Panicum dichotomiflorum	-2 FACW-	Nt A-Grass	KNEE GRASS
PANVIR	5 Panicum virgatum	-1 FAC+	Nt P-Grass	SWITCH GRASS
PHYAME	1 Phytolacca americana	1 FAC-	Nt P-Forb	POKEWEED
POLLAP	0 Polygonum lapathifolium	-4 FACW+	Nt A-Forb	HEARTSEASE
POLPEN	0 Polygonum pensylvanicum	-4 FACW+	Nt A-Forb	PINKWEED
POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
RATPIN	4 Ratibida pinnata	5 UPL	Nt P-Forb	YELLOW CONEFLOWER
RHACAT	0 RHAMNUS CATHARTICA	3 FACU	Ad Shrub	COMMON BUCKTHORN
RUDHIR	1 Rudbeckia hirta	3 FACU	Nt P-Forb	BLACK-EYED SUSAN
RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
SETFAB	0 SETARIA FABERI	2 FACU+	Ad A-Grass	GIANT FOXTAIL
SETVIV	0 SETARIA VIRIDIS	1 [FAC-]	Ad A-Grass	GREEN FOXTAIL
SETVIM	0 SETARIA VIRIDIS MAJOR	5 UPL	Ad A-Grass	GIANT GREEN FOXTAIL
SOLAME	0 Solanum americanum	4 FACU-	Nt A-Forb	BLACK NIGHTSHADE
SOLDUL	0 SOLANUM DULCAMARA	0 FAC	Ad W-Vine	BITTERSWEET NIGHTSHADE
SOLALT	1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD
SONASP	0 SONCHUS ASPER	3 [FACU]	Ad A-Forb	SPINY SOW THISTLE

SORNUT	5	Sorghastrum nutans	2	FACU+	Nt	P-Grass	INDIAN GRASS
SORHAL	0	SORGHUM HALEPENSE	3	FACU	Ad	P-Grass	JOHNSON GRASS
TAROFF	0	TARAXACUM OFFICINALE	3	FACU	Ad	P-Forb	COMMON DANDELION
TRIPRA	0	TRIFOLIUM PRATENSE	5	UPL	Ad	P-Forb	RED CLOVER
VITRIP	2	Vitis riparia	-2	FACW-	Nt	W-Vine	RIVERBANK GRAPE

APPENDIX II

TRANSECT SAMPLING & FLORISTIC QUALITY ASSESSMENT

The following is a summary of the transect data generated using Wilhelm and Masters' *Floristic Quality Assessment and Computer Applications*, 1999. Plant nomenclature follows Swink and Wilhelm's *Plants of the Chicago Region*, 1994. More information on floristic quality assessment methodology can be found in *Erigenia*, number 15, November, 1997. The results of each transect are presented in four sections as described below.

Section 1 is a summary of the quadrat data for the transect. The data listed for each quadrat includes the mean coefficient of conservatism (MC), floristic quality index (FQI), and mean wetness (MW). These values are calculated once for native species only, and a second time including adventive species (W/Ad). Also presented for each quadrat are the number of native species (NS), and number of total species (TS). Shown below each of these columns are their values averaged per quadrat (AVG), and standard deviation (STD). The columns to the far right are sequential averages of the wetness coefficients ($[(x+n+y)/3]$), data that can be useful in the evaluation of plants along a slope or topographical catena.

Section 2 is a summary these same values for the entire transect. First, there is a tabulation of the species in each conservatism category (0 to 10) and the percentage of species in three conservatism classes (0 to 3, 4 to 6, 7 to 10). The two columns below summarize the number and percent of species in each physiognomic group (A=annual, B=biennial, P=perennial, W=woody, H=herbaceous). Next, there is a summary of the relative importance values (RIV) of each physiognomic group. These values are calculated by summing the frequency (FRQ) and the cover class (COV) of each group found in the transect then dividing by two.

Section 3 is a table that lists the relative importance values for each species found in the transect sampling, calculated in the same manner described above. Each scientific name is followed by its coefficient of conservatism and wetland indicator status.

Section 4 is the transect inventory arranged alphabetically to scientific name. This is followed by a list of the quadrats along the transect string that includes the cover class value determined for each species recorded in the quadrat.

Site: **North Side WRP - Transect 1**
 Locale: Skokie, IL
 Date: September 28, 2004
 By: Conservation Design Forum (K Johnson)

SECTION 1

QUAD	TRANSECT DATA, QUADRAT										
	MC	W/Ad	FQI	W/Ad	MW	W/Ad	NS	TS	MW	SEQ	W/Ad
1	1.6	1.0	3.6	2.8	0.6	1.8	5	8	0.7	1.8	
2	2.0	1.0	4.0	2.8	0.8	1.9	4	8	1.4	2.2	
3	1.0	0.2	1.0	0.4	3.0	3.0	1	6	2.4	2.6	
4	2.0	0.7	3.5	2.0	3.3	2.8	3	9	3.1	2.9	
5	1.0	0.2	1.0	0.4	3.0	3.0	1	5	2.9	2.6	
6	2.3	1.0	4.5	3.0	2.3	2.1	4	9	2.0	2.5	
7	2.5	1.1	5.0	3.3	0.8	2.3	4	9	1.6	2.5	
8	1.7	0.5	2.9	1.5	1.7	3.0	3	11	1.1	2.2	
9	0.2	0.1	0.4	0.4	0.8	1.4	6	8	1.2	2.3	
10	1.5	0.4	2.1	1.1	1.0	2.6	2	8	0.9	2.0	
AVG	1.6	0.6	2.8	1.8	1.7	2.4	3.3	8.1			
STD	0.7	0.4	1.6	1.2	1.1	0.6	1.6	1.7			

SECTION 2

C	NUMBER	
0	6	14 NATIVE SPECIES
1	1	30 TOTAL SPECIES
2	0	2.1 NATIVE MEAN C
3	2	1.0 W/Adventives
4	2	64.3% 8.0 NATIVE FQI
5	3	5.5 W/Adventives
6	0	1.7 NATIVE MEAN W
7	0	2.4 W/Adventives
8	0	
9	0	8 to 10
10	0	0.0%

	Native	14	46.7%	Adventive	16	53.3%
Tree	0	0.0%	Tree	0	0.0%	
Shrub	0	0.0%	Shrub	0	0.0%	
W-Vine	0	0.0%	W-Vine	0	0.0%	
H-Vine	0	0.0%	H-Vine	0	0.0%	
P-Forb	8	26.7%	P-Forb	5	16.7%	
B-Forb	0	0.0%	B-Forb	3	10.0%	
A-Forb	2	6.7%	A-Forb	4	13.3%	
P-Grass	2	6.7%	P-Grass	0	0.0%	
A-Grass	2	6.7%	A-Grass	4	13.3%	
P-Sedge	0	0.0%	P-Sedge	0	0.0%	
A-Sedge	0	0.0%	A-Sedge	0	0.0%	
Cryptogam	0	0.0%				

PHYSIOGNOMIC RELATIVE IMPORTANCE VALUES

PHYSIOGNOMY	FRQ	COV	RFRQ	RCOV	RIV
Ad P-Forb	17	31	21.0	25.0	23.0
Nt P-Forb	21	23	25.9	18.5	22.2
Ad A-Grass	14	31	17.3	25.0	21.1
Ad A-Forb	12	13	14.8	10.5	12.6
Nt A-Grass	8	15	9.9	12.1	11.0
Ad B-Forb	5	6	6.2	4.8	5.5
Nt P-Grass	2	3	2.5	2.4	2.4
Nt A-Forb	2	2	2.5	1.6	2.0

SECTION 3

SPECIES RELATIVE IMPORTANCE VALUES

SCIENTIFIC NAME	C WETNESS	FRQ	COV	RFRQ	RCOV	RIV
TRIFOLIUM HYBRIDUM	0 FAC-	10	22	12.3	17.7	15.0
LOLIUM MULTIFLORUM	0 UPL	9	23	11.1	18.5	14.8
Rudbeckia hirta	1 FACU	8	9	9.9	7.3	8.6
Panicum dichotomiflorum	0 FACW-	4	8	4.9	6.5	5.7
Echinochloa crusgalli	0 FACW	4	7	4.9	5.6	5.3
HIBISCUS TRIONUM	0 UPL	5	5	6.2	4.0	5.1
CIRSIUM ARVENSE	0 UPL	4	6	4.9	4.8	4.9
POLYGONUM AVICULARE	0 FAC-	4	4	4.9	3.2	4.1
Aster pilosus	0 FACU+	3	4	3.7	3.2	3.5
Echinacea purpurea	3 UPL	3	3	3.7	2.4	3.1
SETARIA VIRIDIS	0 [FAC-]	2	4	2.5	3.2	2.8
ASTER SUBULATUS	0 [FACU]	2	3	2.5	2.4	2.4
CIRSIUM VULGARE	0 FACU-	2	3	2.5	2.4	2.4
SETARIA FABERI	0 FACU+	2	3	2.5	2.4	2.4
Aster novae-angliae	4 FACW	2	2	2.5	1.6	2.0
Heliopsis helianthoides	5 UPL	2	2	2.5	1.6	2.0
LACTUCA SERRIOLA	0 FAC	2	2	2.5	1.6	2.0
Eragrostis spectabilis	3 UPL	1	2	1.2	1.6	1.4
Andropogon gerardii	5 FAC-	1	1	1.2	0.8	1.0
AVENA SATIVA	0 UPL	1	1	1.2	0.8	1.0
Coreopsis lanceolata	5 FACU	1	1	1.2	0.8	1.0
DAUCUS CAROTA	0 UPL	1	1	1.2	0.8	1.0
Eupatorium serotinum	0 FAC+	1	1	1.2	0.8	1.0
Euphorbia supina	0 FACU-	1	1	1.2	0.8	1.0
PLANTAGO MAJOR	0 FAC+	1	1	1.2	0.8	1.0
Plantago rugelii	0 FAC	1	1	1.2	0.8	1.0
Ratibida pinnata	4 UPL	1	1	1.2	0.8	1.0
SONCHUS OLERACEUS	0 [UPL]	1	1	1.2	0.8	1.0
TARAXACUM OFFICINALE	0 FACU	1	1	1.2	0.8	1.0
TRIFOLIUM PRATENSE	0 UPL	1	1	1.2	0.8	1.0
		81	124			

SECTION 4

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ANDGER	5 Andropogon gerardii	1 FAC-	Nt P-Grass	BIG BLUESTEM GRASS
ASTNOV	4 Aster novae-angliae	-3 FACW	Nt P-Forb	NEW ENGLAND ASTER
ASTPIL	0 Aster pilosus	2 FACU+	Nt P-Forb	HAIRY ASTER
ASTSUB	0 ASTER SUBULATUS	3 [FACU]	Ad A-Forb	EXPRESSWAY ASTER
AVESAT	0 AVENA SATIVA	5 UPL	Ad A-Grass	OATS
CIRARV	0 CIRSIUM ARVENSE	5 UPL	Ad P-Forb	FIELD THISTLE
CIRVUL	0 CIRSIUM VULGARE	4 FACU-	Ad B-Forb	BULL THISTLE
CORLAN	5 Coreopsis lanceolata	3 FACU	Nt P-Forb	SAND COREOPSIS
DAUCAR	0 DAUCUS CAROTA	5 UPL	Ad B-Forb	QUEEN ANNE'S LACE
ECHPUR	3 Echinacea purpurea	5 UPL	Nt P-Forb	BROAD-LEAVED PURPLE CONEFLOWER
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS

ERASPE	3	Eragrostis spectabilis	5	UPL	Nt	P-Grass	PURPLE LOVE GRASS
EUPSEM	0	Eupatorium serotinum	-1	FAC+	Nt	P-Forb	LATE BONESET
EUPSUP	0	Euphorbia supina	4	FACU-	Nt	A-Forb	SPOTTED CREEPING SPURGE
HELHEL	5	Heliopsis helianthoides	5	UPL	Nt	P-Forb	FALSE SUNFLOWER
HIBTRI	0	HIBISCUS TRIONUM	5	UPL	Ad	A-Forb	FLOWER-OF-AN-HOUR
LACSER	0	LACTUCA SERRIOLA	0	FAC	Ad	B-Forb	PRICKLY LETTUCE
LOLMUL	0	LOLIUM MULTIFLORUM	5	UPL	Ad	A-Grass	ITALIAN RYE GRASS
PANDII	0	Panicum dichotomiflorum	-2	FACW-	Nt	A-Grass	KNEE GRASS
PLAMAJ	0	PLANTAGO MAJOR	-1	FAC+	Ad	P-Forb	COMMON PLANTAIN
PLARUG	0	Plantago rugelii	0	FAC	Nt	A-Forb	RED-STALKED PLANTAIN
POLAVI	0	POLYGONUM AVICULARE	1	FAC-	Ad	A-Forb	COMMON KNOTWEED
RATPIN	4	Ratibida pinnata	5	UPL	Nt	P-Forb	YELLOW CONEFLOWER
RUDHIR	1	Rudbeckia hirta	3	FACU	Nt	P-Forb	BLACK-EYED SUSAN
SETFAB	0	SETARIA FABERI	2	FACU+	Ad	A-Grass	GIANT FOXTAIL
SETVIV	0	SETARIA VIRIDIS	1	[FAC-]	Ad	A-Grass	GREEN FOXTAIL
SONOLE	0	SONCHUS OLERACEUS	5	[UPL]	Ad	A-Forb	STORE-FRONT SOW THISTLE
TAROFF	0	TARAXACUM OFFICINALE	3	FACU	Ad	P-Forb	COMMON DANDELION
TRIHVB	0	TRIFOLIUM HYBRIDUM	1	FAC-	Ad	P-Forb	ALSIKE CLOVER
TRIPRA	0	TRIFOLIUM PRATENSE	5	UPL	Ad	P-Forb	RED CLOVER

TRANSECT STRING

>		HIBTRI	1		>		
>		LOLMUL	2			QUAD	8
	QUAD					ACRONYM	COVER
	ACRONYM	COVER				CIRARV	1
	ANDGER	1				CIRVUL	2
	ASTPIL	1				ECHCRU	1
	CIRARV	1				HIBTRI	1
	ECHCRU	2				LOLMUL	3
	ECHPUR	1				RATPIN	1
	HIBTRI	1				RUDHIR	1
	PANDII	3				SETFAB	2
	TRIHVB	1				SETVIV	2
	>					TRIHVB	2
	QUAD					TRIPRA	1
	ACRONYM	COVER				>	
	ASTNOV	1				QUAD	9
	DAUCAR	1				ACRONYM	COVER
	ECHPUR	1				ASTPIL	2
	LOLMUL	2				ECHCRU	2
	PANDII	2				EUPSEM	1
	POLAVI	1				EUPSUP	1
	RUDHIR	1				LOLMUL	3
	TRIHVB	1				PLARUG	1
	>					RUDHIR	1
	QUAD					TRIHVB	3
	ACRONYM	COVER				>	
	ASTSUB	1				QUAD	10
	LOLMUL	2				ACRONYM	COVER
	POLAVI	1				ASTSUB	2
	RUDHIR	1				AVESAT	1
	SONOLE	1				ECHCRU	2
	TRIHVB	2				ERASPE	2
	>					HIBTRI	1
	QUAD					LACSER	1
	ACRONYM	COVER				LOLMUL	2
	ASTPIL	1				TRIHVB	3
	CIRVUL	1					
	HELHEL	1					

Site: **North Side WRP - Transect 2**
 Locale: Skokie, IL
 Date: September 28, 2004
 By: Conservation Design Forum (K Johnson)

SECTION 1

TRANSECT DATA, QUADRAT											
QUAD	MC	W/Ad	FQI	W/Ad	MW	W/Ad	NS	TS	MW	SEQ	W/Ad
1	2.5	1.1	5.0	3.3	1.8	2.3	4	9	2.4	2.9	
2	1.0	0.3	1.0	0.5	3.0	3.5	1	4	1.4	2.4	
3	0.5	0.3	0.7	0.5	-0.5	1.3	2	4	1.7	2.4	
4	0.5	0.2	0.7	0.4	2.5	2.4	2	5	1.3	2.2	
5	0.0	0.0	0.0	0.0	2.0	2.8	1	6	2.5	2.7	
6	2.5	1.3	3.5	2.5	3.0	3.0	2	4	2.9	3.1	
7	2.0	1.0	3.5	2.4	3.7	3.5	3	6	3.4	3.2	
8	3.8	1.9	7.5	5.3	3.5	3.3	4	8	3.4	3.2	
9	0.0	0.0	0.0	0.0	3.0	3.0	1	5	3.4	3.2	
10	0.3	0.2	0.6	0.4	3.7	3.4	3	5	3.3	3.2	
AVG	1.3	0.6	2.2	1.5	2.6	2.8	2.3	5.6			
STD	1.3	0.6	2.5	1.8	1.3	0.7	1.2	1.7			

SECTION 2

C	NUMBER	
0	4	11 NATIVE SPECIES
1	2	22 TOTAL SPECIES
2	0 0 to 3	2.2 NATIVE MEAN C
3	0 54.5%	1.1 W/Adventives
4	3	7.2 NATIVE FQI
5	2	5.1 W/Adventives
6	0 4 to 7	2.3 NATIVE MEAN W
7	0 45.5%	2.5 W/Adventives
8	0	
9	0 8 to 10	
10	0 0.0%	

	Native		Adventive	
Tree	0	0.0%	0	0.0%
Shrub	0	0.0%	0	0.0%
W-Vine	0	0.0%	0	0.0%
H-Vine	0	0.0%	0	0.0%
P-Forb	9	40.9%	4	18.2%
B-Forb	0	0.0%	2	9.1%
A-Forb	2	9.1%	2	9.1%
P-Grass	0	0.0%	1	4.5%
A-Grass	0	0.0%	2	9.1%
P-Sedge	0	0.0%	0	0.0%
A-Sedge	0	0.0%	0	0.0%
Cryptogam	0	0.0%		

PHYSIOGNOMIC RELATIVE IMPORTANCE VALUES

PHYSIOGNOMY	FRQ	COV	RFRQ	RCOV	RIV
Ad P-Forb	13	42	23.2	40.8	32.0
Nt P-Forb	20	20	35.7	19.4	27.6
Ad A-Grass	11	27	19.6	26.2	22.9
Ad A-Forb	4	5	7.1	4.9	6.0
Ad B-Forb	4	4	7.1	3.9	5.5
Nt A-Forb	3	3	5.4	2.9	4.1
Ad P-Grass	1	2	1.8	1.9	1.9

SECTION 3

SPECIES RELATIVE IMPORTANCE VALUES

SCIENTIFIC NAME	C WETNESS	FRQ	COV	RFRQ	RCOV	RIV
TRIFOLIUM HYBRIDUM	0 FAC-	9	38	16.1	36.9	26.5
LOLIUM MULTIFLORUM	0 UPL	10	26	17.9	25.2	21.5
Rudbeckia hirta	1 FACU	7	7	12.5	6.8	9.6
Aster pilosus	0 FACU+	3	3	5.4	2.9	4.1
ASTER SUBULATUS	0 [FACU]	3	3	5.4	2.9	4.1
CIRSIIUM VULGARE	0 FACU-	3	3	5.4	2.9	4.1
Ambrosia artemisiifolia elatior	0 FACU	2	2	3.6	1.9	2.8
Heliopsis helianthoides	5 UPL	2	2	3.6	1.9	2.8
Monarda fistulosa	4 FACU	2	2	3.6	1.9	2.8
Solidago altissima	1 FACU	2	2	3.6	1.9	2.8
SONCHUS ULIGINOSUS	0 FAC-	2	2	3.6	1.9	2.8
MEDICAGO LUPULINA	0 FAC-	1	2	1.8	1.9	1.9
POA PRATENSIS	0 FAC-	1	2	1.8	1.9	1.9
Aster novae-angliae	4 FACW	1	1	1.8	1.0	1.4
CONVOLVULUS ARVENSIS	0 UPL	1	1	1.8	1.0	1.4
Coreopsis lanceolata	5 FACU	1	1	1.8	1.0	1.4
DAUCUS CAROTA	0 UPL	1	1	1.8	1.0	1.4
Oxalis stricta	0 UPL	1	1	1.8	1.0	1.4
Polygonum pensylvanicum	0 FACW+	1	1	1.8	1.0	1.4
Ratibida pinnata	4 UPL	1	1	1.8	1.0	1.4
SETARIA FABERI	0 FACU+	1	1	1.8	1.0	1.4
TARAXACUM OFFICINALE	0 FACU	1	1	1.8	1.0	1.4
		56	103			

SECTION 4

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AMBARE	0 Ambrosia artemisiifolia elatior	3 FACU	Nt A-Forb	COMMON RAGWEED
ASTNOV	4 Aster novae-angliae	-3 FACW	Nt P-Forb	NEW ENGLAND ASTER
ASTPIL	0 Aster pilosus	2 FACU+	Nt P-Forb	HAIRY ASTER
ASTSUB	0 ASTER SUBULATUS	3 [FACU]	Ad A-Forb	EXPRESSWAY ASTER
CIRVUL	0 CIRSIIUM VULGARE	4 FACU-	Ad B-Forb	BULL THISTLE
CONARV	0 CONVULVULUS ARVENSIS	5 UPL	Ad P-Forb	FIELD BINDWEED
CORLAN	5 Coreopsis lanceolata	3 FACU	Nt P-Forb	SAND COREOPSIS
DAUCAR	0 DAUCUS CAROTA	5 UPL	Ad B-Forb	QUEEN ANNE'S LACE
HELHEL	5 Heliopsis helianthoides	5 UPL	Nt P-Forb	FALSE SUNFLOWER
LOLMUL	0 LOLIUM MULTIFLORUM	5 UPL	Ad A-Grass	ITALIAN RYE GRASS
MEDLUP	0 MEDICAGO LUPULINA	1 FAC-	Ad A-Forb	BLACK MEDICK
MONFAS	4 Monarda fistulosa	3 FACU	Nt P-Forb	WILD BERGAMOT
OXASTR	0 Oxalis stricta	5 UPL	Nt P-Forb	COMMON WOOD SORREL
POAPRA	0 POA PRATENSIS	1 FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
POLPEN	0 Polygonum pensylvanicum	-4 FACW+	Nt A-Forb	PINKWEED
RATPIN	4 Ratibida pinnata	5 UPL	Nt P-Forb	YELLOW CONEFLOWER
RUDHIR	1 Rudbeckia hirta	3 FACU	Nt P-Forb	BLACK-EYED SUSAN
SETFAB	0 SETARIA FABERI	2 FACU+	Ad A-Grass	GIANT FOXTAIL
SOLALT	1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD
SONULI	0 SONCHUS ULIGINOSUS	1 FAC-	Ad P-Forb	COMMON SOW THISTLE
TAROFF	0 TARAXACUM OFFICINALE	3 FACU	Ad P-Forb	COMMON DANDELION

TRIHVB	0 TRIFOLIUM HYBRIDUM		1 FAC-	Ad P-Forb	ALSIKE CLOVER
TRANSECT STRING		ASTPIL	1		>
>		LOLMUL	3		QUAD 8
QUAD	1	MEDLUP	2		ACRONYM COVER
ACRONYM	COVER	SOLALT	1		ASTSUB 1
ASTNOV	1	TRIHVB	4		CORLAN 1
ASTPIL	1	>			HELHEL 1
ASTSUB	1	QUAD	5		LOLMUL 3
CIRVUL	1	ACRONYM	COVER		MONFIS 1
HELHEL	1	ASTPIL	1		RUDHIR 1
LOLMUL	3	ASTSUB	1		TAROFF 1
RUDHIR	1	CONARV	1		TRIHVB 3
SONULI	1	LOLMUL	3		>
TRIHVB	4	POAPRA	2		QUAD 9
>		TRIHVB	4		ACRONYM COVER
QUAD	2	>			AMBARE 1
ACRONYM	COVER	QUAD	6		CIRVUL 1
DAUCAR	1	ACRONYM	COVER		LOLMUL 1
LOLMUL	3	LOLMUL	3		SETFAB 1
RUDHIR	1	MONFIS	1		
TRIHVB	4	RUDHIR	1		TRIHVB 5
>		RUDHIR	4		>
QUAD	3	>			QUAD 10
ACRONYM	COVER	QUAD	7		ACRONYM COVER
LOLMUL	2	ACRONYM	COVER		AMBARE 1
POLPEN	1	CIRVUL	1		LOLMUL 3
RUDHIR	1	LOLMUL	2		OXASTR 1
TRIHVB	5	RATPIN	1		RUDHIR 1
>		RUDHIR	1		SONULI 1
QUAD	4	SOLALT	1		
ACRONYM	COVER	TRIHVB	5		

Site: **Lemont WRP - Transect 1**
 Locale: Lemont, IL
 Date: September 23, 2004
 By: Conservation Design Forum (K Johnson)

SECTION 1

QUAD	TRANSECT DATA, QUADRAT									
	MC	W/Ad	FQI	W/Ad	MW	W/Ad	NS	TS	MW SEQ	W/Ad
1	0.7	0.6	1.9	1.8	2.7	2.5	7	8	1.7	2.0
2	0.3	0.2	0.5	0.4	0.8	1.6	4	5	1.3	2.1
3	0.5	0.2	0.7	0.4	0.5	2.2	2	6	1.6	2.4
4	1.5	0.8	3.0	2.1	3.5	3.4	4	8	2.1	2.6
5	1.0	0.7	2.4	2.0	2.2	2.1	6	9	2.1	2.1
6	1.2	1.0	2.7	2.4	0.6	0.7	5	6	1.7	1.8
7	2.4	1.9	6.4	5.7	2.4	2.7	7	9	2.2	2.3
8	0.3	0.3	0.5	0.5	3.5	3.5	4	4	3.3	3.4
9	2.0	2.0	4.5	4.5	4.0	4.0	5	5	2.9	3.1
10	0.3	0.1	0.6	0.4	1.3	1.9	3	7	2.7	2.9
AVG	1.0	0.8	2.3	2.0	2.1	2.4	4.7	6.7		
STD	0.8	0.7	2.0	1.8	1.3	1.0	1.6	1.8		

SECTION 2

C	NUMBER	
0	9	15 NATIVE SPECIES
1	2	31 TOTAL SPECIES
2	0	0 to 3
3	1	80.0%
4	2	1.2 NATIVE MEAN C
5	1	0.6 W/Adventives
6	0	4 to 7
7	0	20.0%
8	0	4.6 NATIVE FQI
9	0	8 to 10
10	0	0.0%
		3.2 W/Adventives
		1.7 NATIVE MEAN W
		2.3 W/Adventives

Native	15	48.4%	Adventive	16	51.6%
Tree	1	3.2%	Tree	2	6.5%
Shrub	0	0.0%	Shrub	0	0.0%
W-Vine	0	0.0%	W-Vine	0	0.0%
H-Vine	0	0.0%	H-Vine	0	0.0%
P-Forb	8	25.8%	P-Forb	5	16.1%
B-Forb	0	0.0%	B-Forb	3	9.7%
A-Forb	4	12.9%	A-Forb	4	12.9%
P-Grass	1	3.2%	P-Grass	0	0.0%
A-Grass	1	3.2%	A-Grass	2	6.5%
P-Sedge	0	0.0%	P-Sedge	0	0.0%
A-Sedge	0	0.0%	A-Sedge	0	0.0%
Cryptogam	0	0.0%			

PHYSIOGNOMIC RELATIVE IMPORTANCE VALUES

PHYSIOGNOMY	FRQ	COV	RFRQ	RCOV	RIV
Nt P-Forb	29	50	43.3	38.8	41.0
Nt A-Forb	13	34	19.4	26.4	22.9
Ad A-Forb	7	16	10.4	12.4	11.4
Ad P-Forb	5	7	7.5	5.4	6.4
Nt A-Grass	3	6	4.5	4.7	4.6
Ad B-Forb	3	5	4.5	3.9	4.2
Ad Tree	3	5	4.5	3.9	4.2
Ad A-Grass	2	4	3.0	3.1	3.0
Nt Tree	1	1	1.5	0.8	1.1
Nt P-Grass	1	1	1.5	0.8	1.1

SECTION 3

SPECIES RELATIVE IMPORTANCE VALUES

SCIENTIFIC NAME	C WETNESS	FRQ	COV	RFRQ	RCOV	RIV
Rudbeckia hirta	1 FACU	10	20	14.9	15.5	15.2
Solanum americanum	0 FACU-	6	17	9.0	13.2	11.1
Oxalis stricta	0 UPL	5	12	7.5	9.3	8.4
Polygonum pensylvanicum	0 FACW+	3	9	4.5	7.0	5.7
CHENOPODIUM ALBUM	0 FAC-	3	8	4.5	6.2	5.3
Heliopsis helianthoides	5 UPL	4	6	6.0	4.7	5.3
Erigeron canadensis	0 FAC-	3	6	4.5	4.7	4.6
Panicum dichotomiflorum	0 FACW-	3	6	4.5	4.7	4.6
Monarda fistulosa	4 FACU	4	4	6.0	3.1	4.5
AILANTHUS ALTISSIMA	0 UPL	2	4	3.0	3.1	3.0
POLYGONUM PERSICARIA	0 [FAC-]	2	4	3.0	3.1	3.0
Aster pilosus	0 FACU+	2	3	3.0	2.3	2.7
Eupatorium serotinum	0 FAC+	2	3	3.0	2.3	2.7
AMARANTHUS ALBUS	0 FACU	1	2	1.5	1.6	1.5
AMARANTHUS RETROFLEXUS	0 FACU+	1	2	1.5	1.6	1.5
CERASTIUM VULGATUM	0 FACU	1	2	1.5	1.6	1.5
CIRSIUM VULGARE	0 FACU-	1	2	1.5	1.6	1.5
DAUCUS CAROTA	0 UPL	1	2	1.5	1.6	1.5
Euphorbia supina	0 FACU-	1	2	1.5	1.6	1.5
SETARIA FABERI	0 FACU+	1	2	1.5	1.6	1.5
SETARIA VIRIDIS	0 [FAC-]	1	2	1.5	1.6	1.5
TRIFOLIUM PRATENSE	0 UPL	1	2	1.5	1.6	1.5
Acer saccharinum	0 FACW	1	1	1.5	0.8	1.1
ARCTIUM MINUS	0 UPL	1	1	1.5	0.8	1.1
CIRSIUM ARVENSE	0 UPL	1	1	1.5	0.8	1.1
Echinacea purpurea	3 UPL	1	1	1.5	0.8	1.1
Elymus canadensis	4 FAC-	1	1	1.5	0.8	1.1
MORUS ALBA	0 FAC	1	1	1.5	0.8	1.1
Solidago altissima	1 FACU	1	1	1.5	0.8	1.1
SOLIDAGO SEMPERVIRENS	0 [FACU]	1	1	1.5	0.8	1.1
SONCHUS ULIGINOSUS	0 FAC-	1	1	1.5	0.8	1.1
		67	129			

SECTION 4

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ACESAI	0 Acer saccharinum	-3 FACW	Nt Tree	SILVER MAPLE
AILALT	0 AILANTHUS ALTISSIMA	5 UPL	Ad Tree	TREE OF HEAVEN
AMAALB	0 AMARANTHUS ALBUS	3 FACU	Ad A-Forb	TUMBLEWEED
AMARET	0 AMARANTHUS RETROFLEXUS	2 FACU+	Ad A-Forb	ROUGH AMARANTH

ARCMIN	0	ARCTIUM MINUS	5	UPL	Ad B-Forb	COMMON BURDOCK	
ASTPIL	0	Aster pilosus	2	FACU+	Nt P-Forb	HAIRY ASTER	
CERVUL	0	CERASTIUM VULGATUM	3	FACU	Ad P-Forb	MOUSE-EAR CHICKWEED	
CHEALB	0	CHENOPODIUM ALBUM	1	FAC-	Ad A-Forb	LAMB'S QUARTERS	
CIRARV	0	CIRSIUM ARVENSE	5	UPL	Ad P-Forb	FIELD THISTLE	
CIRVUL	0	CIRSIUM VULGARE	4	FACU-	Ad B-Forb	BULL THISTLE	
DAUCAR	0	DAUCUS CAROTA	5	UPL	Ad B-Forb	QUEEN ANNE'S LACE	
ECHPUR	3	Echinacea purpurea	5	UPL	Nt P-Forb	BROAD-LEAVED PURPLE CONEFLOWER	
ELYCAN	4	Elymus canadensis	1	FAC-	Nt P-Grass	CANADA WILD RYE	
ERICAN	0	Erigeron canadensis	1	FAC-	Nt A-Forb	HORSEWEED	
EUPSEM	0	Eupatorium serotinum	-1	FAC+	Nt P-Forb	LATE BONESET	
EUPSUP	0	Euphorbia supina	4	FACU-	Nt A-Forb	SPOTTED CREEPING SPURGE	
HELHEL	5	Heliopsis helianthoides	5	UPL	Nt P-Forb	FALSE SUNFLOWER	
MONFIS	4	Monarda fistulosa	3	FACU	Nt P-Forb	WILD BERGAMOT	
MORALB	0	MORUS ALBA	0	FAC	Ad Tree	WHITE MULBERRY	
OXASTR	0	Oxalis stricta	5	UPL	Nt P-Forb	COMMON WOOD SORREL	
PANDII	0	Panicum dichotomiflorum	-2	FACW-	Nt A-Grass	KNEE GRASS	
POLPEN	0	Polygonum pensylvanicum	-4	FACW+	Nt A-Forb	PINKWEED	
POLPER	0	POLYGONUM PERSICARIA	1	[FAC-]	Ad A-Forb	LADY'S THUMB	
RUDHIR	1	Rudbeckia hirta	3	FACU	Nt P-Forb	BLACK-EYED SUSAN	
SETFAB	0	SETARIA FABERI	2	FACU+	Ad A-Grass	GIANT FOXTAIL	
SETVIV	0	SETARIA VIRIDIS	1	[FAC-]	Ad A-Grass	GREEN FOXTAIL	
SOLAME	0	Solanum americanum	4	FACU-	Nt A-Forb	BLACK NIGHTSHADE	
SOLALT	1	Solidago altissima	3	FACU	Nt P-Forb	TALL GOLDENROD	
SOLSEM	0	SOLIDAGO SEMPERVIRENS	3	[FACU]	Ad P-Forb	SEASIDE GOLDENROD	
SONULI	0	SONCHUS ULIGINOSUS	1	FAC-	Ad P-Forb	COMMON SOW THISTLE	
TRIPRA	0	TRIFOLIUM PRATENSE	5	UPL	Ad P-Forb	RED CLOVER	
TRANSECT STRING							
>		CIRARV	1			ECHPUR	1
		HELHEL	1			ELYCAN	1
QUAD	1	POLPER	2			HELHEL	2
ACRONYM	COVER	RUDHIR	3			MONFIS	1
CHEALB	3	SETFAB	2			POLPEN	2
ERICAN	2	SOLAME	2			RUDHIR	1
EUPSEM	2	TRIPRA	2			SOLAME	2
EUPSUP	2	>				>	
MONFIS	1	QUAD	5			QUAD	8
OXASTR	2	ACRONYM	COVER			ACRONYM	COVER
RUDHIR	2	AMARET	2			ASTPIL	2
SOLAME	3	CHEALB	3			OXASTR	2
>		ERICAN	2			RUDHIR	3
QUAD	2	EUPSEM	1			SOLAME	4
ACRONYM	COVER	MONFIS	1			>	
ACESAI	1	RUDHIR	2			QUAD	9
AILALT	1	SOLALT	1			ACRONYM	COVER
OXASTR	3	SOLAME	2			HELHEL	1
PANDII	2	SOLSEM	1			MONFIS	1
RUDHIR	3	>				OXASTR	3
>		QUAD	6			RUDHIR	1
QUAD	3	ACRONYM	COVER			SOLAME	4
ACRONYM	COVER	ERICAN	2			>	
AILALT	3	HELHEL	2			QUAD	10
DAUCAR	2	PANDII	2			ACRONYM	COVER
PANDII	2	POLPEN	4			AMAALB	2
POLPER	2	RUDHIR	2			ARCMIN	1
RUDHIR	1	SONULI	1			CHEALB	2
SETVIV	2	>				MORALB	1
>		QUAD	7			OXASTR	2
QUAD	4	ACRONYM	COVER			POLPEN	3
ACRONYM	COVER	CERVUL	2			RUDHIR	2
ASTPIL	1	CIRVUL	2				

Site: **Lemont WRP - Transect 2**
 Locale: Lemont, IL
 Date: September 23, 2004
 By: Conservation Design Forum (K Johnson)

SECTION 1

QUAD	TRANSECT DATA, QUADRAT									
	MC	W/Ad	FQI	W/Ad	MW	W/Ad	NS	TS	MW SEQ	W/Ad
1	1.5	0.9	3.7	2.8	0.8	1.6	6	10	2.0	2.4
2	1.2	0.9	2.7	2.3	3.2	3.3	5	7	2.1	2.5
3	0.8	0.5	1.5	1.2	2.3	2.7	4	6	2.9	3.1
4	1.6	1.0	3.6	2.8	3.2	3.4	5	8	2.4	2.8
5	1.0	0.6	2.0	1.5	1.8	2.4	4	7	3.0	3.0
6	0.0	0.0	0.0	0.0	4.0	3.3	2	6	2.5	2.7
7	0.2	0.1	0.4	0.4	1.8	2.3	5	8	3.0	2.7
8	3.4	2.1	7.6	6.0	3.2	2.6	5	8	2.5	2.3
9	3.0	1.0	4.2	2.4	2.5	2.0	2	6	3.2	2.6
10	0.0	0.0	0.0	0.0	4.0	3.1	1	7	3.2	2.6
AVG	1.3	0.7	2.6	1.9	2.7	2.7	3.9	7.3		
STD	1.2	0.6	2.3	1.8	1.0	0.6	1.7	1.3		

SECTION 2

C	NUMBER	
0	12	21 NATIVE SPECIES
1	2	38 TOTAL SPECIES
2	1	1.5 NATIVE MEAN C
3	1	0.8 W/Adventives
4	3	76.2% 7.0 NATIVE FQI
5	1	5.2 W/Adventives
6	0	1.4 NATIVE MEAN W
7	0	1.8 W/Adventives
8	1	
9	0	8 to 10
10	0	4.8%

Native	21	55.3%	Adventive	17	44.7%
Tree	1	2.6%	Tree	2	5.3%
Shrub	0	0.0%	Shrub	0	0.0%
W-Vine	0	0.0%	W-Vine	0	0.0%
H-Vine	0	0.0%	H-Vine	0	0.0%
P-Forb	10	26.3%	P-Forb	5	13.2%
B-Forb	1	2.6%	B-Forb	2	5.3%
A-Forb	4	10.5%	A-Forb	4	10.5%
P-Grass	1	2.6%	P-Grass	0	0.0%
A-Grass	3	7.9%	A-Grass	4	10.5%
P-Sedge	1	2.6%	P-Sedge	0	0.0%
A-Sedge	0	0.0%	A-Sedge	0	0.0%
Cryptogam	0	0.0%			

PHYSIOGNOMIC RELATIVE IMPORTANCE VALUES

PHYSIOGNOMY	FRQ	COV	RFRQ	RCOV	RIV
Nt P-Forb	24	37	32.9	31.4	32.1
Ad P-Forb	16	23	21.9	19.5	20.7
Ad A-Forb	7	15	9.6	12.7	11.2
Nt A-Forb	6	12	8.2	10.2	9.2
Nt A-Grass	5	11	6.8	9.3	8.1
Ad A-Grass	6	9	8.2	7.6	7.9
Ad Tree	3	4	4.1	3.4	3.7
Ad B-Forb	2	3	2.7	2.5	2.6
Nt P-Sedge	1	1	1.4	0.8	1.1
Nt P-Grass	1	1	1.4	0.8	1.1
Nt B-Forb	1	1	1.4	0.8	1.1
Nt Tree	1	1	1.4	0.8	1.1

SECTION 3

SPECIES RELATIVE IMPORTANCE VALUES

SCIENTIFIC NAME	C WETNESS	FRQ	COV	RFRQ	RCOV	RIV
CIRSIUM ARVENSE	0 UPL	6	10	8.2	8.5	8.3
TARAXACUM OFFICINALE	0 FACU	7	8	9.6	6.8	8.2
Oxalis stricta	0 UPL	6	8	8.2	6.8	7.5
Rudbeckia hirta	1 FACU	5	8	6.8	6.8	6.8
POLYGONUM PERSICARIA	0 [FAC-]	4	9	5.5	7.6	6.6
Solanum americanum	0 FACU-	3	7	4.1	5.9	5.0
Eupatorium altissimum	0 [FACU]	2	6	2.7	5.1	3.9
Panicum dichotomiflorum	0 FACW-	2	6	2.7	5.1	3.9
Heliopsis helianthoides	5 UPL	3	4	4.1	3.4	3.7
Panicum capillare	1 FAC	2	4	2.7	3.4	3.1
AILANTHUS ALTISSIMA	0 UPL	2	3	2.7	2.5	2.6
DIGITARIA ISCHAEMUM	0 FACU	2	3	2.7	2.5	2.6
Echinacea purpurea	3 UPL	2	2	2.7	1.7	2.2
Ratibida pinnata	4 UPL	2	2	2.7	1.7	2.2
SETARIA VERTICILLATA	0 FACU	2	2	2.7	1.7	2.2
AMARANTHUS RETROFLEXUS	0 FACU+	1	3	1.4	2.5	2.0
GLECHOMA HEDERACEA	0 FACU	1	3	1.4	2.5	2.0
Polygonum pensylvanicum	0 FACW+	1	3	1.4	2.5	2.0
Aster pilosus	0 FACU+	1	2	1.4	1.7	1.5
ATRIPLEX PATULA	0 FACW-	1	2	1.4	1.7	1.5
CIRSIUM VULGARE	0 FACU-	1	2	1.4	1.7	1.5
Eupatorium serotinum	0 FAC+	1	2	1.4	1.7	1.5
Monarda fistulosa	4 FACU	1	2	1.4	1.7	1.5
SETARIA FABERI	0 FACU+	1	2	1.4	1.7	1.5
SETARIA VIRIDIS	0 [FAC-]	1	2	1.4	1.7	1.5
ARTEMISIA ANNUA	0 FACU	1	1	1.4	0.8	1.1
Aster novae-angliae	4 FACW	1	1	1.4	0.8	1.1
Bouteloua curtipendula	8 UPL	1	1	1.4	0.8	1.1
Cyperus esculentus	0 [FAC+]	1	1	1.4	0.8	1.1
Echinochloa crusgalli	0 FACW	1	1	1.4	0.8	1.1
Erigeron canadensis	0 FAC-	1	1	1.4	0.8	1.1
LACTUCA SALIGNA	0 FACU	1	1	1.4	0.8	1.1
MORUS ALBA	0 FAC	1	1	1.4	0.8	1.1
Oenothera biennis	0 FACU	1	1	1.4	0.8	1.1
Populus deltoides	2 FAC+	1	1	1.4	0.8	1.1
Potentilla norvegica	0 FAC	1	1	1.4	0.8	1.1

SOLIDAGO SEMPERVIRENS	0 [FACU]	1	1	1.4	0.8	1.1
SONCHUS ULIGINOSUS	0 FAC-	1	1	1.4	0.8	1.1
		73	118			

SECTION 4

ACRONYM	C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
AILALT	0	AILANTHUS ALTISSIMA	5	UPL	Ad Tree	TREE OF HEAVEN
AMARET	0	AMARANTHUS RETROFLEXUS	2	FACU+	Ad A-Forb	ROUGH AMARANTH
ARTANN	0	ARTEMISIA ANNUA	3	FACU	Ad A-Forb	SWEET WORMWOOD
ASTNOV	4	Aster novae-angliae	-3	FACW	Nt P-Forb	NEW ENGLAND ASTER
ASTPIL	0	Aster pilosus	2	FACU+	Nt P-Forb	HAIRY ASTER
ATRPAT	0	ATRIPLEX PATULA	-2	FACW-	Ad A-Forb	COMMON ORACH
BOUCUR	8	Bouteloua curtipendula	5	UPL	Nt P-Grass	SIDE-OATS GRAMA
CIRARV	0	CIRSIUM ARVENSE	5	UPL	Ad P-Forb	FIELD THISTLE
CIRVUL	0	CIRSIUM VULGARE	4	FACU-	Ad B-Forb	BULL THISTLE
CYPESC	0	Cyperus esculentus	-1	[FAC+]	Nt P-Sedge	FIELD NUT SEDGE
DIGISC	0	DIGITARIA ISCHAEMUM	3	FACU	Ad A-Grass	SMOOTH CRAB GRASS
ECHPUR	3	Echinacea purpurea	5	UPL	Nt P-Forb	BROAD-LEAVED PURPLE CONEFLOWER
ECHCRU	0	Echinochloa crusgalli	-3	FACW	Nt A-Grass	BARNYARD GRASS
ERICAN	0	Erigeron canadensis	1	FAC-	Nt A-Forb	HORSEWEED
EUPALT	0	Eupatorium altissimum	3	[FACU]	Nt P-Forb	TALL BONESET
EUPSEM	0	Eupatorium serotinum	-1	FAC+	Nt P-Forb	LATE BONESET
GLEHEH	0	GLECHOMA HEDERACEA	3	FACU	Ad P-Forb	CREeping CHARLIE
HELHEL	5	Heliopsis helianthoides	5	UPL	Nt P-Forb	FALSE SUNFLOWER
LACSAL	0	LACTUCA SALIGNA	3	FACU	Ad B-Forb	WILLOW LETTUCE
MONFIS	4	Monarda fistulosa	3	FACU	Nt P-Forb	WILD BERGAMOT
MORALB	0	MORUS ALBA	0	FAC	Ad Tree	WHITE MULBERRY
OENBIE	0	Oenothera biennis	3	FACU	Nt B-Forb	COMMON EVENING PRIMROSE
OXASTR	0	Oxalis stricta	5	UPL	Nt P-Forb	COMMON WOOD SORREL
PANCAP	1	Panicum capillare	0	FAC	Nt A-Grass	OLD WITCH GRASS
PANDII	0	Panicum dichotomiflorum	-2	FACW-	Nt A-Grass	KNEE GRASS
POLPEN	0	Polygonum pensylvanicum	-4	FACW+	Nt A-Forb	PINKWEED
POLPER	0	POLYGONUM PERSICARIA	1	[FAC-]	Ad A-Forb	LADY'S THUMB
POPDEL	2	Populus deltoides	-1	FAC+	Nt Tree	EASTERN COTTONWOOD
POTNOR	0	Potentilla norvegica	0	FAC	Nt A-Forb	NORWAY CINQUEFOIL
RATPIN	4	Ratibida pinnata	5	UPL	Nt P-Forb	YELLOW CONEFLOWER
RUDHIR	1	Rudbeckia hirta	3	FACU	Nt P-Forb	BLACK-EYED SUSAN
SETFAB	0	SETARIA FABERI	2	FACU+	Ad A-Grass	GIANT FOXTAIL
SETVER	0	SETARIA VERTICILLATA	3	FACU	Ad A-Grass	BRISTLY FOXTAIL
SETVIV	0	SETARIA VIRIDIS	1	[FAC-]	Ad A-Grass	GREEN FOXTAIL
SOLAME	0	Solanum americanum	4	FACU-	Nt A-Forb	BLACK NIGHTSHADE
SOLSEM	0	SOLIDAGO SEMPERVIRENS	3	[FACU]	Ad P-Forb	SEASIDE GOLDENROD
SONULI	0	SONCHUS ULIGINOSUS	1	FAC-	Ad P-Forb	COMMON SOW THISTLE
TAROFF	0	TARAXACUM OFFICINALE	3	FACU	Ad P-Forb	COMMON DANDELION

TRANSECT STRING	QUAD	COVER	ACRONYM	COVER	QUAD	COVER
>		3	OXASTR	2		8
	ACRONYM	COVER	PANCAP	3	ACRONYM	COVER
QUAD	1	2	POPDEL	1	BOUCUR	1
ACRONYM	COVER	1	RUDHIR	1	DIGISC	1
AMARET	3	3	>		ECHCRU	1
ASTNOV	1	1	QUAD	6	HELHEL	2
DIGISC	2	3	ACRONYM	COVER	POLPER	4
EUPSEM	2	1	CIRARV	2	RATPIN	1
MONFIS	2	>	EUPALT	3	SOLAME	3
OENBIE	1	4	OXASTR	1	SONULI	1
POTNOR	1	COVER	POLPER	2	>	
RUDHIR	2	1	SOLSEM	1	QUAD	9
SETVER	1	1	TAROFF	1	ACRONYM	COVER
TAROFF	1	1	>		ATRPAT	2
>		2	QUAD	7	GLEHEH	3
QUAD	2	3	ACRONYM	COVER	HELHEL	1
ACRONYM	COVER	1	CIRARV	1	PANCAP	1
ASTPIL	2	2	CYPESC	1	SETVER	1
CIRARV	2	1	OXASTR	1	TAROFF	2
ERICAN	1	>	PANDII	3	>	
HELHEL	1	5	POLPER	1	QUAD	10
OXASTR	1	COVER	RUDHIR	1	ACRONYM	COVER
RUDHIR	2	1	SOLAME	2	AILALT	2
SETFAB	2	2	TAROFF	1	ARTANN	1
>		1	>		CIRARV	2

Site: **LASMA Berm - Transect 1**
 Locale: Willow Springs, IL
 Date: September 23, 2004
 By: Conservation Design Forum (K Johnson)

SECTION 1

TRANSECT DATA, QUADRAT										
QUAD	MC	W/Ad	FQI	W/Ad	MW	W/Ad	NS	TS	MW SEQ	W/Ad
1	0.0	0.0	0.0	0.0	-3.0	2.8	1	4	-1.7	1.2
2	0.0	0.0	0.0	0.0	-0.3	-0.3	3	3	-1.9	0.8
3	0.0	0.0	0.0	0.0	-2.5	0.0	2	3	-1.9	0.7
4	0.0	0.0	0.0	0.0	-3.0	2.3	1	3	-2.2	0.6
5	0.0	0.0	0.0	0.0	-1.0	-0.5	3	4	-2.0	1.1
6	1.0	0.5	1.4	1.0	-2.0	1.5	2	4	-1.5	0.4
7	1.0	0.4	1.4	0.9	-1.5	0.2	2	5	-1.7	0.8
AVG	0.3	0.1	0.4	0.3	-1.9	0.9	2.0	3.7		
STD	0.5	0.2	0.7	0.5	1.0	1.3	0.8	0.8		

SECTION 2

C	NUMBER	5 NATIVE SPECIES
0	4	11 TOTAL SPECIES
1	0	0.4 NATIVE MEAN C
2	1 0 to 3	0.2 W/Adventives
3	0 100.0%	0.9 NATIVE FQI
4	0	0.6 W/Adventives
5	0	-1.2 NATIVE MEAN W
6	0 4 to 7	0.7 W/Adventives
7	0 0.0%	
8	0	
9	0 8 to 10	
10	0 0.0%	

Native	5	45.5%	Adventive	6	54.5%
Tree	1	9.1%	Tree	0	0.0%
Shrub	0	0.0%	Shrub	0	0.0%
W-Vine	0	0.0%	W-Vine	0	0.0%
H-Vine	0	0.0%	H-Vine	0	0.0%
P-Forb	0	0.0%	P-Forb	0	0.0%
B-Forb	0	0.0%	B-Forb	0	0.0%
A-Forb	2	18.2%	A-Forb	3	27.3%
P-Grass	0	0.0%	P-Grass	0	0.0%
A-Grass	2	18.2%	A-Grass	3	27.3%
P-Sedge	0	0.0%	P-Sedge	0	0.0%
A-Sedge	0	0.0%	A-Sedge	0	0.0%
Cryptogam	0	0.0%			

PHYSIOGNOMIC RELATIVE IMPORTANCE VALUES

PHYSIOGNOMY	FRQ	COV	RFRQ	RCOV	RIV
Nt A-Grass	9	27	34.6	45.0	39.8
Ad A-Grass	9	19	34.6	31.7	33.1
Ad A-Forb	3	6	11.5	10.0	10.8
Nt A-Forb	3	5	11.5	8.3	9.9
Nt Tree	2	3	7.7	5.0	6.3

SECTION 3

SPECIES RELATIVE IMPORTANCE VALUES

SCIENTIFIC NAME	C WETNESS	FRQ	COV	RFRQ	RCOV	RIV
Echinochloa crusgalli	0 FACW	6	21	21.4	32.8	27.1
LOLIUM MULTIFLORUM	0 UPL	5	12	17.9	18.8	18.3
Panicum dichotomiflorum	0 FACW-	3	6	10.7	9.4	10.0
AVENA SATIVA	0 UPL	3	5	10.7	7.8	9.3
SOIL	0	2	4	7.1	6.3	6.7
Solanum americanum	0 FACU-	2	4	7.1	6.3	6.7
Populus deltoides	2 FAC+	2	3	7.1	4.7	5.9
ACNIDA TAMARISCINA	0 FACW	1	2	3.6	3.1	3.3
CHENOPODIUM ALBUM	0 FAC-	1	2	3.6	3.1	3.3
KOCHIA SCOPARIA	0 FACU-	1	2	3.6	3.1	3.3
SETARIA FABERI	0 FACU+	1	2	3.6	3.1	3.3
Polygonum pensylvanicum	0 FACW+	1	1	3.6	1.6	2.6
		28	64			

SECTION 4

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ACNTAM	0 ACNIDA TAMARISCINA	-3 FACW	Ad A-Forb	WESTERN WATER HEMP
AVESAT	0 AVENA SATIVA	5 UPL	Ad A-Grass	OATS
CHEALB	0 CHENOPODIUM ALBUM	1 FAC-	Ad A-Forb	LAMB'S QUARTERS
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
KOCSO	0 KOCHIA SCOPARIA	4 FACU-	Ad A-Forb	BURNING BUSH
LOLMUL	0 LOLIUM MULTIFLORUM	5 UPL	Ad A-Grass	ITALIAN RYE GRASS
PANDII	0 Panicum dichotomiflorum	-2 FACW-	Nt A-Grass	KNEE GRASS
POLPEN	0 Polygonum pensylvanicum	-4 FACW+	Nt A-Forb	PINKWEED
POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
SETFAB	0 SETARIA FABERI	2 FACU+	Ad A-Grass	GIANT FOXTAIL
SOIL	0 SOIL	0 nil	nil	SOIL
SOLAME	0 Solanum americanum	4 FACU-	Nt A-Forb	BLACK NIGHTSHADE

TRANSECT STRING	ACRONYM	COVER	SOLAME	QUAD	COVER
>	ECHCRU	4	>		
QUAD	LOLMUL	2	QUAD		6
ACRONYM	PANDII	2	ACRONYM		COVER
AVESAT	>		AVESAT		2
ECHCRU	QUAD	4	ECHCRU		4
KOCSO	ACRONYM	COVER	LOLMUL		4
LOLMUL	AVESAT	2	POPDEL		2
SOIL	ECHCRU	3	>		
>	LOLMUL	1	QUAD		7
QUAD	SOIL	2	ACRONYM		COVER
ACRONYM	>		ACNTAM		2
ECHCRU	QUAD	5	LOLMUL		4
PANDII	ACRONYM	COVER	PANDII		2
SOLAME	CHEALB	2	POPDEL		1
>	ECHCRU	4	SETFAB		2
QUAD	POLPEN	1			

Site: **LASMA Berm - Transect 2**
 Locale: Willow Springs, IL
 Date: September 23, 2004
 By: Conservation Design Forum (K Johnson)

SECTION 1

TRANSECT DATA, QUADRAT										
QUAD	MC	W/Ad	FQI	W/Ad	MW	W/Ad	NS	TS	MW SEQ	W/Ad
1	0.0	0.0	0.0	0.0	-3.0	1.0	1	2	-2.2	0.8
2	1.0	0.7	1.4	1.2	-1.5	0.7	2	3	-1.9	0.6
3	1.3	1.0	2.3	2.0	-1.3	0.3	3	4	0.1	1.4
4	4.0	1.3	4.0	2.3	3.0	3.3	1	3	-0.4	1.5
5	4.0	2.0	4.0	2.8	-3.0	1.0	1	2	-1.0	1.9
6	0.0	0.0	0.0	0.0	-3.0	1.3	1	3	-2.0	1.8
7	0.0	0.0	0.0	0.0	0.0	3.0	0	2	-1.5	2.2
AVG	1.5	0.7	1.7	1.2	-1.3	1.5	1.3	2.7		
STD	1.8	0.8	1.8	1.2	2.2	1.2	1.0	0.8		

SECTION 2

C	NUMBER	
0	2	6 NATIVE SPECIES
1	0	9 TOTAL SPECIES
2	1 0 to 3	2.3 NATIVE MEAN C
3	0 50.0%	1.6 W/Adventives
4	3	5.7 NATIVE FQI
5	0	4.7 W/Adventives
6	0 4 to 7	-0.8 NATIVE MEAN W
7	0 50.0%	0.3 W/Adventives
8	0	
9	0 8 to 10	
10	0 0.0%	

Native	6	66.7%	Adventive	3	33.3%
Tree	1	11.1%	Tree	0	0.0%
Shrub	0	0.0%	Shrub	0	0.0%
W-Vine	0	0.0%	W-Vine	0	0.0%
H-Vine	0	0.0%	H-Vine	0	0.0%
P-Forb	2	22.2%	P-Forb	0	0.0%
B-Forb	0	0.0%	B-Forb	0	0.0%
A-Forb	0	0.0%	A-Forb	0	0.0%
P-Grass	1	11.1%	P-Grass	0	0.0%
A-Grass	2	22.2%	A-Grass	3	33.3%
P-Sedge	0	0.0%	P-Sedge	0	0.0%
A-Sedge	0	0.0%	A-Sedge	0	0.0%
Cryptogam	0	0.0%			

PHYSIOGNOMIC RELATIVE IMPORTANCE VALUES

PHYSIOGNOMY	FRQ	COV	RFRQ	RCOV	RIV
Ad A-Grass	10	29	52.6	63.0	57.8
Nt A-Grass	5	13	26.3	28.3	27.3
Nt P-Forb	2	2	10.5	4.3	7.4
Nt Tree	1	1	5.3	2.2	3.7
Nt P-Grass	1	1	5.3	2.2	3.7

SECTION 3

SPECIES RELATIVE IMPORTANCE VALUES

SCIENTIFIC NAME	C WETNESS	FRQ	COV	RFRQ	RCOV	RIV
LOLIUM MULTIFLORUM	0 UPL	7	26	36.8	56.5	46.7
Echinochloa crusgalli	0 FACW	3	6	15.8	13.0	14.4
Panicum dichotomiflorum	0 FACW-	2	7	10.5	15.2	12.9
SETARIA FABERI	0 FACU+	2	2	10.5	4.3	7.4
Aster novae-angliae	4 FACW	1	1	5.3	2.2	3.7
Elymus canadensis	4 FAC-	1	1	5.3	2.2	3.7
Monarda fistulosa	4 FACU	1	1	5.3	2.2	3.7
Populus deltoides	2 FAC+	1	1	5.3	2.2	3.7
SETARIA VIRIDIS	0 [FAC-]	1	1	5.3	2.2	3.7
		19	46			

SECTION 4

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ASTNOV	4 Aster novae-angliae	-3 FACW	Nt P-Forb	NEW ENGLAND ASTER
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
ELYCAN	4 Elymus canadensis	1 FAC-	Nt P-Grass	CANADA WILD RYE
LOLMUL	0 LOLIUM MULTIFLORUM	5 UPL	Ad A-Grass	ITALIAN RYE GRASS
MONFIS	4 Monarda fistulosa	3 FACU	Nt P-Forb	WILD BERGAMOT
PANDII	0 Panicum dichotomiflorum	-2 FACW-	Nt A-Grass	KNEE GRASS
POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
SETFAB	0 SETARIA FABERI	2 FACU+	Ad A-Grass	GIANT FOXTAIL
SETVIV	0 SETARIA VIRIDIS	1 [FAC-]	Ad A-Grass	GREEN FOXTAIL

TRANSECT STRING	ACRONYM	COVER	ACRONYM	COVER
>	ECHCRU	2	LOLMUL	4
QUAD	1	ELYCAN	1	>
ACRONYM	COVER	LOLMUL	3	QUAD
ECHCRU	3	PANDII	3	ACRONYM
LOLMUL	3	>	QUAD	COVER
>	QUAD	4	LOLMUL	1
QUAD	2	ACRONYM	COVER	LOLMUL
ACRONYM	COVER	LOLMUL	5	4
LOLMUL	2	MONFIS	1	SETFAB
PANDII	4	SETFAB	1	>
POPDEL	1	>	QUAD	7
>	QUAD	5	ACRONYM	COVER
QUAD	3	ACRONYM	COVER	LOLMUL
				5
				SETVIV
				1

Site: **LASMA Berm - Transect 3**
 Locale: Willow Springs, IL
 Date: September 23, 2004
 By: Conservation Design Forum (K Johnson)

SECTION 1

TRANSECT DATA, QUADRAT										
QUAD	MC	W/Ad	FQI	W/Ad	MW	W/Ad	NS	TS	MW SEQ	W/Ad
1	1.3	1.0	2.3	2.0	-2.0	-0.2	3	4	-2.5	-1.6
2	0.0	0.0	0.0	0.0	-3.0	-3.0	1	1	-2.7	-1.2
3	0.0	0.0	0.0	0.0	-3.0	-0.5	1	2	-1.0	-0.3
4	1.0	0.5	1.0	0.7	3.0	2.5	1	2	-0.8	-0.2
5	0.0	0.0	0.0	0.0	-2.5	-2.5	2	2	-0.2	0.7
6	2.0	0.7	2.0	1.2	-1.0	2.0	1	3	0.5	1.2
7	5.0	1.7	5.0	2.9	5.0	4.0	1	3	2.0	3.0
AVG	1.3	0.5	1.5	1.0	-0.5	0.3	1.4	2.4		
STD	1.8	0.6	1.8	1.1	3.2	2.6	0.8	1.0		

SECTION 2

C	NUMBER	
0	3	7 NATIVE SPECIES
1	1	9 TOTAL SPECIES
2	1 0 to 3	1.7 NATIVE MEAN C
3	0 71.4%	1.3 W/Adventives
4	1	4.5 NATIVE FQI
5	1	4.0 W/Adventives
6	0 4 to 7	-0.1 NATIVE MEAN W
7	0 28.6%	0.7 W/Adventives
8	0	
9	0 8 to 10	
10	0 0.0%	

Native	7	77.8%	Adventive	2	22.2%
Tree	1	11.1%	Tree	0	0.0%
Shrub	0	0.0%	Shrub	0	0.0%
W-Vine	0	0.0%	W-Vine	0	0.0%
H-Vine	0	0.0%	H-Vine	0	0.0%
P-Forb	2	22.2%	P-Forb	0	0.0%
B-Forb	0	0.0%	B-Forb	0	0.0%
A-Forb	1	11.1%	A-Forb	0	0.0%
P-Grass	1	11.1%	P-Grass	0	0.0%
A-Grass	2	22.2%	A-Grass	2	22.2%
P-Sedge	0	0.0%	P-Sedge	0	0.0%
A-Sedge	0	0.0%	A-Sedge	0	0.0%
Cryptogam	0	0.0%			

PHYSIOGNOMIC RELATIVE IMPORTANCE VALUES

PHYSIOGNOMY	FRQ	COV	RFRQ	RCOV	RIV
Ad A-Grass	7	13	41.2	40.6	40.9
Nt A-Grass	5	13	29.4	40.6	35.0
Nt P-Forb	2	2	11.8	6.3	9.0
Nt A-Forb	1	2	5.9	6.3	6.1
Nt Tree	1	1	5.9	3.1	4.5
Nt P-Grass	1	1	5.9	3.1	4.5

SECTION 3

SPECIES RELATIVE IMPORTANCE VALUES

SCIENTIFIC NAME	C WETNESS	FRQ	COV	RFRQ	RCOV	RIV
SOIL	0	6	18	26.1	36.0	31.0
Echinochloa crusgalli	0 FACW	4	10	17.4	20.0	18.7
LOLIUM MULTIFLORUM	0 UPL	3	8	13.0	16.0	14.5
SETARIA FABERI	0 FACU+	4	5	17.4	10.0	13.7
Panicum dichotomiflorum	0 FACW-	1	3	4.3	6.0	5.2
Polygonum lapathifolium	0 FACW+	1	2	4.3	4.0	4.2
Elymus canadensis	4 FAC-	1	1	4.3	2.0	3.2
Heliopsis helianthoides	5 UPL	1	1	4.3	2.0	3.2
Populus deltoides	2 FAC+	1	1	4.3	2.0	3.2
Rudbeckia hirta	1 FACU	1	1	4.3	2.0	3.2
		23	50			

SECTION 4

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
ELYCAN	4 Elymus canadensis	1 FAC-	Nt P-Grass	CANADA WILD RYE
HELHEL	5 Heliopsis helianthoides	5 UPL	Nt P-Forb	FALSE SUNFLOWER
LOLMUL	0 LOLIUM MULTIFLORUM	5 UPL	Ad A-Grass	ITALIAN RYE GRASS
PANDII	0 Panicum dichotomiflorum	-2 FACW-	Nt A-Grass	KNEE GRASS
POLLAP	0 Polygonum lapathifolium	-4 FACW+	Nt A-Forb	HEARTSEASE
POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
RUDHIR	1 Rudbeckia hirta	3 FACU	Nt P-Forb	BLACK-EYED SUSAN
SETFAB	0 SETARIA FABERI	2 FACU+	Ad A-Grass	GIANT FOXTAIL
SOIL	0 SOIL	0 nil	nil	SOIL

TRANSECT STRING	QUAD	COVER	QUAD	COVER
>			PANDII	3
	ACRONYM	COVER	SOIL	3
QUAD	1		>	
ACRONYM	COVER		QUAD	6
ECHCRU	3		ACRONYM	COVER
ELYCAN	1		LOLMUL	2
LOLMUL	2		POPDEL	1
POLLAP	2		SETFAB	1
SOIL	1		SOIL	4
>			>	
QUAD	2		QUAD	7
ACRONYM	COVER		ACRONYM	COVER
ECHCRU	2		HELHEL	1
SOIL	4		LOLMUL	4
>			SETFAB	1
	QUAD	5		
	ACRONYM	COVER		
	ECHCRU	2		

APPENDIX III

SEEDED SPECIES RECRUITMENT

Each of the three tables on the following pages represents an alphabetical list of the native species that were seeded as part of the prairie landscape installation in April of 2004. Each species is listed along with its C value (in parenthesis). If the species was recorded from the site during the 2004-monitoring event in September it is indicated with a "Y", and if not it is indicated with an "N"; the columns to the right summarize the RIV of each species if recorded during the transect sampling.

The North Side WRP seed list is identical to that of Lemont WRP. Six (6) common prairie grasses and seventeen (17) common prairie forbs were seeded at these two sites. The same six prairie grasses were used at the LASMA Berm; however, only eleven (11) forbs were included in the seed mix. See the report for more information.

TABLE A. NORTH SIDE WRP SEEDED SPECIES

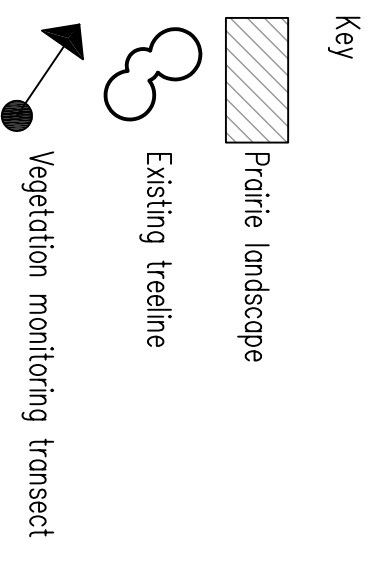
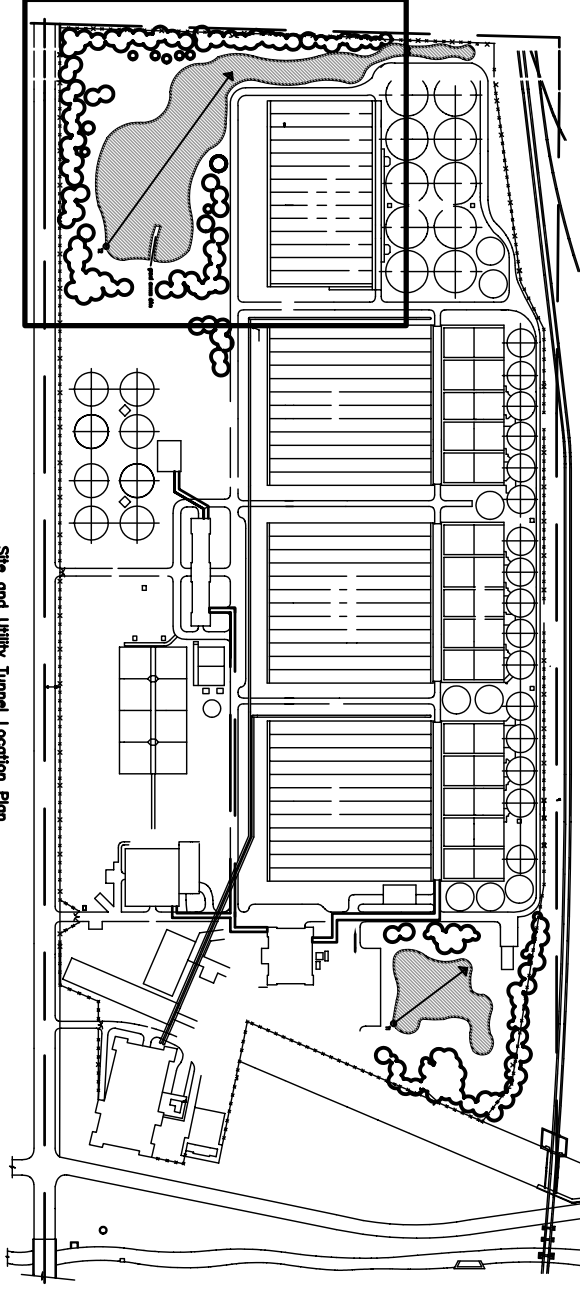
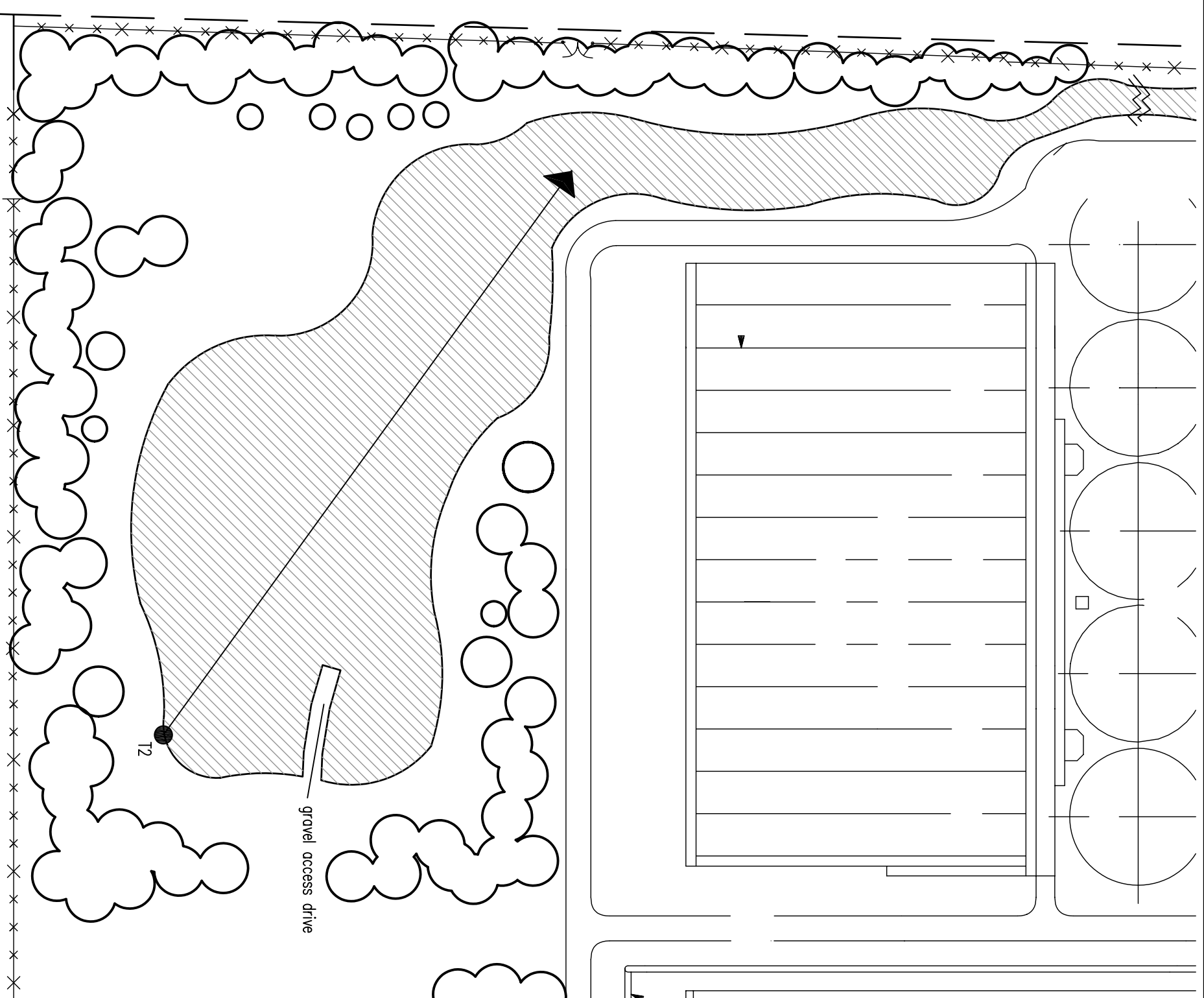
SPECIES (C VALUE)	RELATIVE IMPORTANCE VALUE (RIV)			
	TRANSECT 1		TRANSECT 2	
	2004	2005	2004	2005
<i>Andropogon gerardii</i> (5)Y	1.0		-	
<i>Andropogon scoparius</i> (5)N	-		-	
<i>Aster novae-angliae</i> (4)Y	2.0		1.4	
<i>Astragalus canadensis</i> (10)N	-		-	
<i>Bouteloua curtipendula</i> (8)Y	-		-	
<i>Coreopsis lanceolata</i> (5)Y	1.0		1.4	
<i>Desmodium canadense</i> (4)N	-		-	
<i>Echinacea purpurea</i> (3)Y	3.1		-	
<i>Elymus canadensis</i> (4)Y	-		-	
<i>Eryngium yuccifolium</i> (9)N	-		-	
<i>Heliopsis helianthoides</i> (5)Y	2.0		2.8	
<i>Lespedeza capitata</i> (4)N	-		-	
<i>Monarda fistulosa</i> (4)Y	-		2.8	
<i>Panicum virgatum</i> (5)N	-		-	
<i>Penstemon digitalis</i> (4)N	-		-	
<i>Petalostemum purpureum</i> (9)N	-		-	
<i>Pycnanthemum virginianum</i> (5)N	-		-	
<i>Ratibida pinnata</i> (4)Y	1.0		1.4	
<i>Rudbeckia hirta</i> (1)Y	8.6		9.6	
<i>Silphium integrifolium</i> (5)N	-		-	
<i>Sorghastrum nutans</i> (5)Y	-		-	
<i>Veronicastrum virginianum</i> (7)N	-		-	
<i>Zizia aurea</i> (7)N	-		-	

TABLE B. LEMONT WRP SEEDED SPECIES

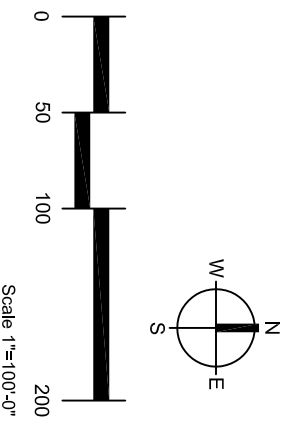
SPECIES (C VALUE)	RELATIVE IMPORTANCE VALUE (RIV)			
	TRANSECT 1		TRANSECT 2	
	2004	2005	2004	2005
<i>Andropogon gerardii</i> (5)N	-		-	
<i>Andropogon scoparius</i> (5)N	-		-	
<i>Aster novae-angliae</i> (4)Y	-		1.1	
<i>Astragalus canadensis</i> (10)N	-		-	
<i>Bouteloua curtipendula</i> (8)Y	-		1.1	
<i>Coreopsis lanceolata</i> (5)N	-		-	
<i>Desmodium canadense</i> (4)N	-		-	
<i>Echinacea purpurea</i> (3)Y	1.1		2.2	
<i>Elymus canadensis</i> (4)Y	1.1		-	
<i>Eryngium yuccifolium</i> (9)N	-		-	
<i>Heliopsis helianthoides</i> (5)Y	5.3		3.7	
<i>Lespedeza capitata</i> (4)N	-		-	
<i>Monarda fistulosa</i> (4)Y	4.5		1.5	
<i>Panicum virgatum</i> (5)Y	-		-	
<i>Penstemon digitalis</i> (4)N	-		-	
<i>Petalostemum purpureum</i> (9)N	-		-	
<i>Pycnanthemum virginianum</i> (5)N	-		-	
<i>Ratibida pinnata</i> (4)Y	-		2.2	
<i>Rudbeckia hirta</i> (1)Y	15.2		6.8	
<i>Silphium integrifolium</i> (5)N	-		-	
<i>Sorghastrum nutans</i> (5)N	-		-	
<i>Veronicastrum virginianum</i> (7)N	-		-	
<i>Zizia aurea</i> (7)N	-		-	

TABLE C. LASMA BERM SEEDED SPECIES

SPECIES (C VALUE)	RELATIVE IMPORTANCE VALUE (RIV)					
	TRANSECT 1		TRANSECT 2		TRANSECT 3	
	2004	2005	2004	2005	2004	2005
<i>Andropogon gerardii</i> (5)Y	-		-		-	
<i>Andropogon scoparius</i> (5)N	-		-		-	
<i>Aster novae-angliae</i> (4)Y	-		3.7		-	
<i>Astragalus canadensis</i> (10)N	-		-		-	
<i>Bouteloua curtipendula</i> (8)Y	-		-		-	
<i>Desmodium canadense</i> (4)N	-		-		-	
<i>Echinacea purpurea</i> (3)N	-		-		-	
<i>Elymus canadensis</i> (4)Y	-		3.7		3.2	
<i>Heliopsis helianthoides</i> (5)Y	-		-		3.2	
<i>Lespedeza capitata</i> (4)N	-		-		-	
<i>Monarda fistulosa</i> (4)Y	-		3.7		-	
<i>Panicum virgatum</i> (5)Y	-		-		-	
<i>Ratibida pinnata</i> (4)Y	-		-		-	
<i>Rudbeckia hirta</i> (1)Y	-		-		3.2	
<i>Silphium integrifolium</i> (5)N	-		-		-	
<i>Solidago graminifolia</i> (4)N	-		-		-	
<i>Sorghastrum nutans</i> (5)Y	-		-		-	



- GENERAL NOTES:**
1. This plan provides a general conceptual layout of the prairie landscape; all measurements and dimensions are approximate.
 2. The north edge of the prairie seeding area extends approximately 100' beyond the depiction on this sheet; see smaller overall site plan for exact location.



Conservation Design Forum
 375 West First Street
 Elmhurst, Illinois 60126
 630.559.2000 Phone
 630.559.2030 Fax
 www.cdfinc.com

Client:
 Metropolitan Water Reclamation District
 of Greater Chicago
 100 E. Erie Street
 Chicago, IL 60611

**Exhibit A-1
 North Side WRP Native Landscape Areas**

Issue/Revision

Status	Drawn by: SM
100%	Checked by: KJ
Date	Job No.
December 2004	03063.00



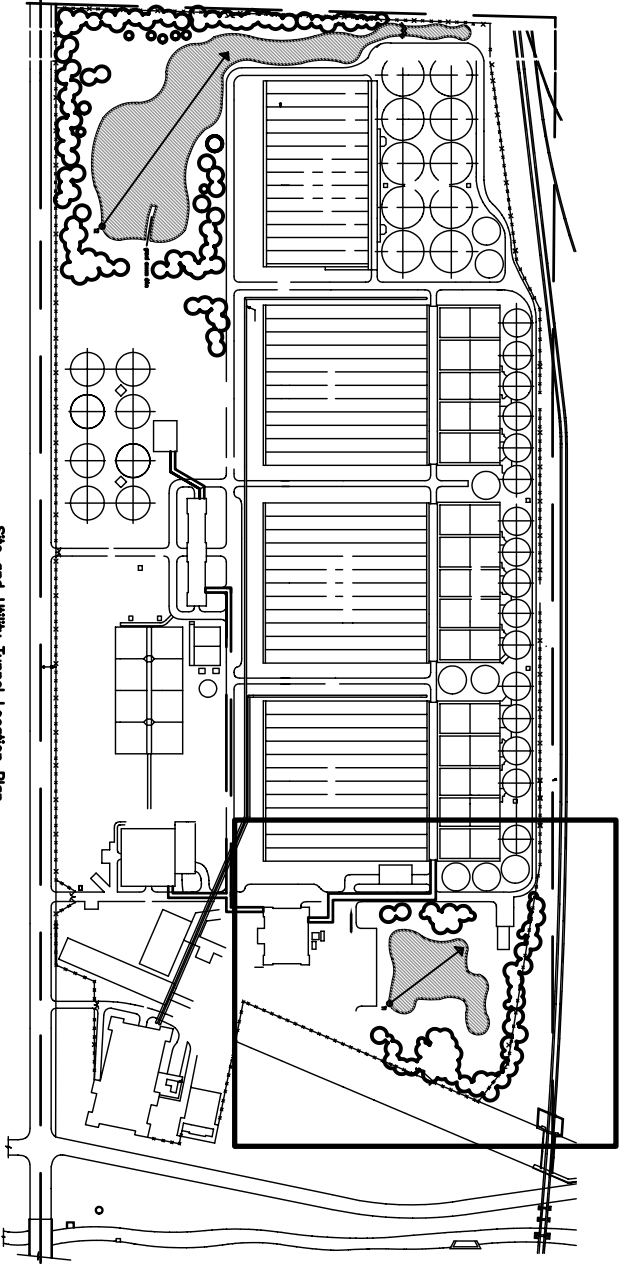
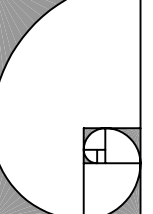
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 375 West First Street
 Elmhurst, Illinois 60126
 630.559.2000 Phone
 630.559.2030 Fax
 www.cdfinc.com

Client:
 Metropolitan Water Reclamation District
 of Greater Chicago
 100 E. Erie Street
 Chicago, IL 60611

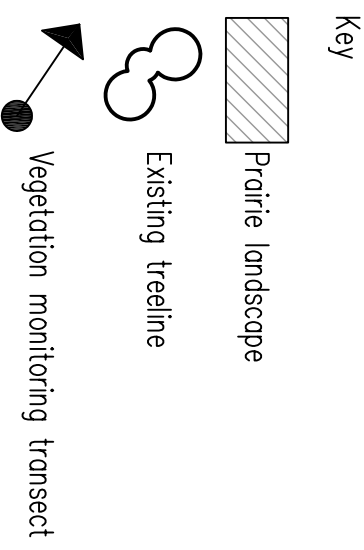
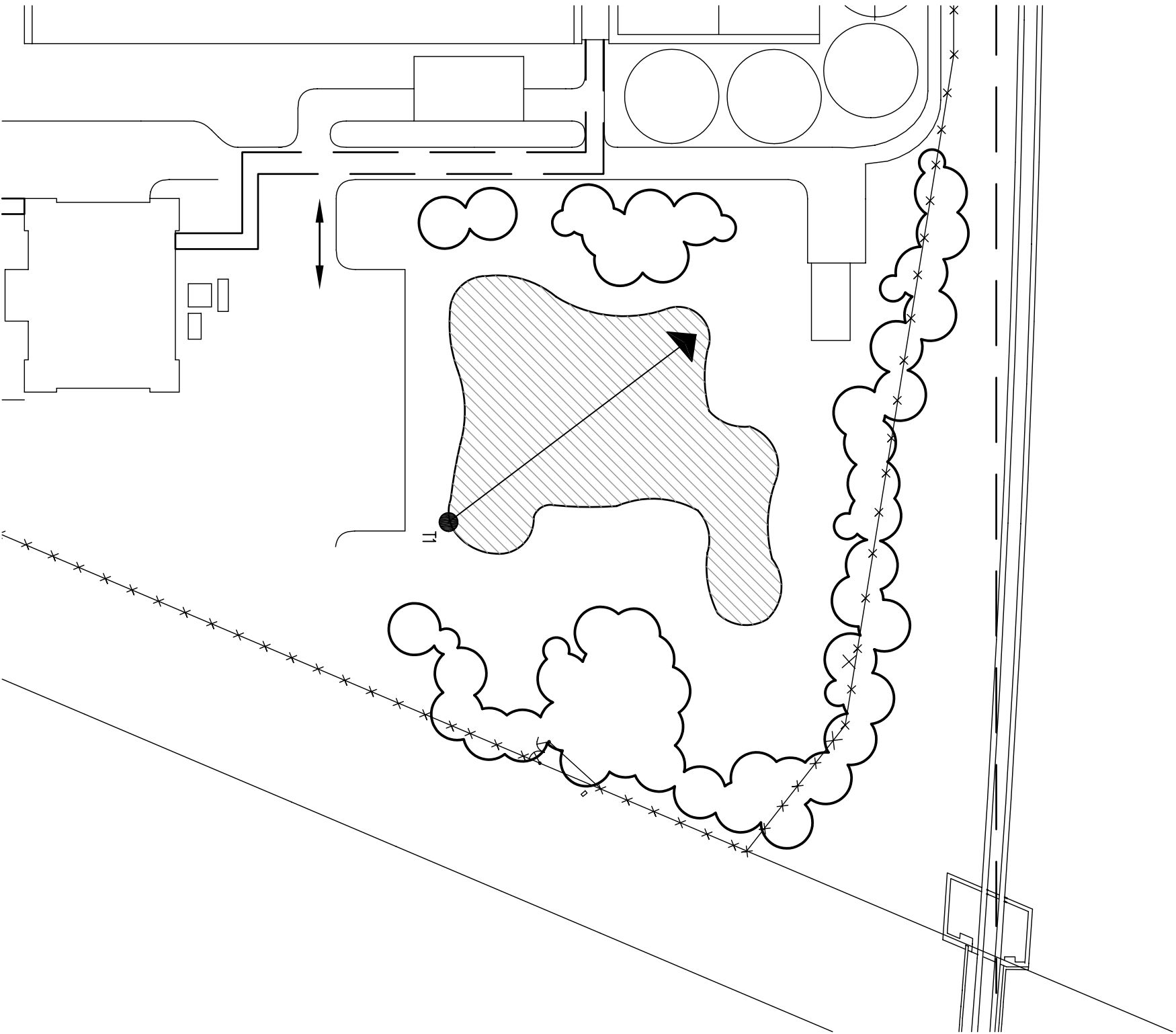
**Exhibit A-2
 North Side WRP Native Landscape Areas**

Issue/Revision

Status	Drawn by: SM
100%	Chkd by: KJ
Date	Job No.
December 2004	03063.00



Site and Utility Tunnel Location Plan



GENERAL NOTE:
 1. This plan provides a general conceptual layout of the prairie landscape;
 all measurements and dimensions are approximate.



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 375 West First Street
 Elmhurst, Illinois 60126
 630.559.2000 Phone
 630.559.2030 Fax
 www.cdfinc.com

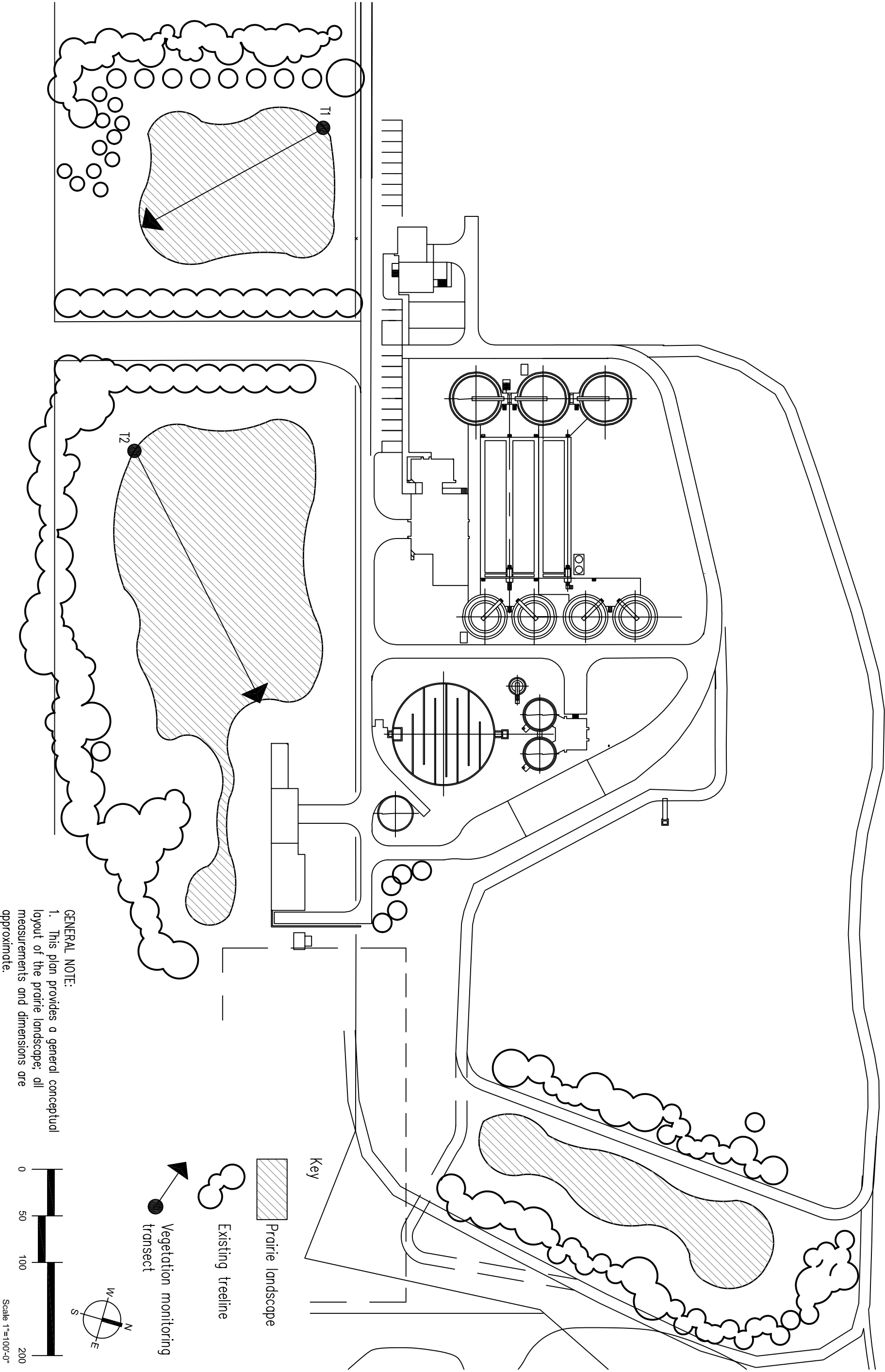
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 Metropolitan Water Reclamation District
 of Greater Chicago
 100 E. Erie Street
 Chicago, IL 60611

**Exhibit B
 Lemont WRP Native Landscape Areas**

Issue/Revision

Status	Drawn by: SM
100%	Checked by: KJ
Date	Job No.
December 2004	03063.00

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GENERAL NOTE:
 1. This plan provides a general conceptual layout of the prairie landscape; all measurements and dimensions are approximate.



May 19, 2004



May 19, 2004

Above Bare spot on berm.

Below Surface rill formations evident at the berm.



May 19, 2004



June 9, 2004

Above Cover crop germination.

Below Mowing on slopes with tractor.



June 16, 2004



September 23, 2004

Above Mowing on steep slopes.

Below Transect 2.



May 20, 2004



July 8, 2004

Above Drill-seeding furrows and initial germination.

Below Disturbed area in southwestern portion of site.



July 8, 2004



July 27, 2004

Above Spot herbicide application.

Below Results of spot herbicide activity.



September 28, 2004



September 28, 2004

Above Transect 1.

Below Transect 2.



May 19, 2004



June 23, 2004

Above Cover crop and initial germination.

Below Nodding Thistle (undesireable weed - adjacent to prairie conversion site).



June 24, 2004



August 25, 2004

Above First mowing.

Below Results of herbiciding the Cut-leaved Teasel.



September 23, 2004



September 23, 2004

Above Transect 1.

Below Transect 2.