

# MNSCU Combined State Pollution Prevention Summary Report for Fiscal Year 2007

## Part 1: College/University Descriptions

### Hennepin Technical College (HTC)

Hennepin Technical College (HTC) employs approximately 600 faculty and staff at our two campuses in Brooklyn Park & Eden Prairie, plus our customized training offices in Plymouth and Bloomington. This report will cover the activities at our two campuses. Employees did not receive any formal P<sup>2</sup> training in the past year.

### Bemidji State University (BSU)

Average Employee Count:

Faculty and staff - 649

Student Employees –603

Staffed Facility Locations: 2 - BSU main campus and Center for Research and Innovation

Report Application: All BSU facilities are included in this report.

Bemidji State University members of the administration, faculty, staff and students participated in several National Wildlife Campus Ecology teleconferences focusing on climate action topics such as greener purchasing and transportation, conducting greenhouse gas inventories, and more.

Teleconferences attended in FY 2007 included:

1. How to Engage Students and Gain Support from the Administration: October 26, 2006
2. Greener Purchasing on Campus: November 16, 2006
3. Conducting GHG Inventories on Campus and Other Energy Tracking Strategies: Dec 7, 2006
4. Greener Transportation on Campus: February 15, 2007
5. Purchasing Green Tags and Renewable Energy Certificates: March 8, 2007

The Department of Residential Life also sponsored a web conference titled “Deploying Green Residential Facilities”. The conference took place in parts on two days, 2/13 and 2/15/2007.

### Central Lakes College (CLC)

Central Lakes College has four campuses in two cities located in central Minnesota- Brainerd, and Staples. This report is for all four sites.

The college employees approximately 400 full-time and part-time faculty and staff. Employees did not receive any formal P<sup>2</sup> training in the past year.

### Century College, White Bear Lake, MN

Century College Campus covers 160 acres in Mahtomedi and White Bear Lake, Minnesota. The college employs approximately 700 faculty and staff providing a wide range of technical and general education programs at three operating locations. This summary covers all operating locations.

### Riverland Community College

Riverland Community College has three campuses in two cities located in southern Minnesota- one in Albert Lea and two in Austin. We also have an outreach site in Owatonna. This report is for all four sites. The college employees approximately 300 full-time and part-time faculty and staff. There has been no formal pollution prevention training to the staff.

### Minnesota State University, Moorhead

Minnesota State University Moorhead (MSUM) currently employs approximately 325 full time faculty, 150 part time faculty, and 325 staff members. These employees serve an enrollment of over 7,660 students. MSUM has two facility locations, a 120 acre main campus with 36 buildings, and the Regional Science Center, a 300 acre nature research center located adjacent to Buffalo River State Park. This report reflects both locations and includes all departments within the campus community. Education is on going throughout the year for faculty, staff and students with respect to pollution prevention, waste reduction and recycling.

### St. Cloud Technical College, St. Cloud

St. Cloud Technical College is located at 1540 Northway Dr., St. Cloud, MN and has a staff of approximately 206. This report is for St. Cloud Technical College only.

### St. Cloud State University, St. Cloud

St. Cloud State University (SCSU) employs full-time and part-time approximately 1,500 administrative, teaching, clerical, and technical maintenance personnel. The campus consists of 42 buildings and is situated on over 100 acres. For purposes of this report, all campus locations will be included. Members of the SCSU staff are receiving an increasing level of training in the areas of pollution prevention and recycling. The University terminated its contract MacNeil Environmental, Inc. on June 30, 2006. Following other MnSCU campuses the University now has an in-house Safety and Health Administrator.

### Alexandria Technical College, Alexandria

Alexandria Technical College (ATC) employs approximately 250 faculty and staff members at two locations; the Main Campus and also the Interior Design facility, which is located off campus. The campus consists of seven staffed buildings, including the off campus Interior Design facility. For purposes of this report, all buildings shall be considered. Members of the ATC staff receive yearly training on hazardous communications and waste management.

### North Hennepin Community College

North Hennepin Community College has approximately 360 faculty and staff work at our agency. We have two locations: North Hennepin Community College Brooklyn Park campus, plus off-campus classes at Buffalo High School, Buffalo, MN. We are reporting only for North Hennepin Community College Brooklyn Park campus. P2 training is required of Plant Services staff and is voluntary on part of other staff.

### Minneapolis Community and Technical College

Approximately 800 employees work at the four Minneapolis Community & Technical College (MCTC) sites including our Main Campus (Minneapolis), Aviation Center (Eden Prairie), Transportation Center (Minneapolis) and the Center for Criminal Justice and Law Enforcement (St.

Paul). Affected staff and faculty have received Employee Right to Know, Hazardous Waste and Laboratory Safety Training.

## Part 2: Policy and Regulatory Activities

### Hennepin Technical College (HTC)

Hennepin Technical College established an electronic invoice approval process and has expanded its use of video conferencing as a conscious effort to reduce travel between campuses for meetings. The college uses online work orders for both the Maintenance and IT departments. We are investigating the use of single-source recycling for all of our recyclable materials.

### Bemidji State University (BSU)

Bemidji State University has established an environmental policy statement that states in part:

“In our general operations, Bemidji State University will strive, wherever possible, to:

1. Conserve natural resources and support sustainable practices,
2. Conduct affairs in ways which safeguard the environmental health and safety of students, faculty, staff, and members of the broader community,
3. Reduce the generation of wastes and the use of toxic substances and promote strategies to reuse and recycle those wastes which cannot be avoided; and purchase renewable, reusable, recyclable and recycled materials.

In pursuing our educational and research missions, Bemidji State University will strive, wherever possible, to:

1. foster an understanding of and responsibility for the natural environment,
2. convey knowledge regarding environmental and health issues relevant to various academic disciplines,
3. encourage environmental research,
4. conduct teaching and research in an environmentally responsible way,
5. provide a forum for the open flow of information within the university community and the community at large regarding environmental issues and their relationships to other social issues. “

The complete statement can be viewed on the web at

[http://www.bemidjistate.edu/ehs/content/bsu\\_env\\_plcy.pdf](http://www.bemidjistate.edu/ehs/content/bsu_env_plcy.pdf)

As a 2005 signatory of the Talloires Declaration, BSU has made a formal commitment to protecting the environment and to pursue an environmental agenda. More information about the Talloires Declaration can be found at [http://www.ulsf.org/programs\\_talloires.html](http://www.ulsf.org/programs_talloires.html).

### Century College

Century College is in the process of implementing a “Mercury Free Project” to greatly reduce the use of mercury and mercury products on the campus. Over three kilos of mercury were removed last year and the college continues to replace mercury instruments with non-mercury equipment. Century College formed a Committee that meets several times per year called R3 (Reduce – Reuse – Recycle). This committee monitors recycling and environmental initiatives. The committee has a prominently displayed bulletin board that educates viewers. This Committee is in the process of establishing a link within the College website and promotes reduction and responsible handling of waste products.

All staff and students have an email address to reduce paper memorandums. The College continues to expand its online learning, class registrations and other transactions to paperless methods. Century College spent over \$5,000 on recycling containers in Fiscal Year 2007. Furthermore it has purchased two baling machines to compact cardboard and has 2 student workers working 20 hours per week on recycling collection. A foam based hand sanitizer is used in the College's Fitness Center and Cardio Rooms; (this product does not require the use of paper or electric blowers to dry hands).

#### Minnesota State University, Moorhead

Minnesota State University Moorhead is committed to the preservation, protection, and where possible, the enhancement of our environment in all matters of operation. This includes the obvious goals of meeting or exceeding all applicable local, state, and federal requirements; as well as fostering responsible stewardship by our personnel of all natural resources both in the work place and at home in the community. We promote a proactive policy in environmental matters - one that anticipates and addresses problems before they become a regulatory matter.

MSUM recognizes the strong environmental impact it has and is committed to developing the means to reduce its use of toxic materials, release of pollutants, and generation of hazardous wastes. Maximum results will be achieved through the education of the campus community, and continued investigation and implementation of environmentally friendly products and programs.

MSUM is constantly working towards reducing our environmental impact as a community.

Students, faculty, and staff receive education through workshops, electronic newsletters, etc. about environmental policy and awareness to ensure the quality of participation on campus in environmentally healthy practices. Departments are encouraged to purchase recycled goods, reuse materials, conserve energy, and properly dispose of unwanted materials. MSUM currently reduces paper volume by using campus e-mail, promoting teleconferencing, utilizing podcasting & vodcasting, providing classroom materials online, and by making registration and other administrative procedures paperless.

A large part of the environmental duties for MSUM is to set an example for the surrounding community, as well as nationwide academic communities. This model is presented each and every day, and continues to grow and develop as environmental policies improve and gain recognition.

#### St. Cloud Technical College, St. Cloud

We use electronic communications and teleconferencing with our clients whenever possible. We have switched to electronic application procedures when registering for classes. Students are encouraged to use the electronic payment system whenever possible. High efficiency office equipment is purchased whenever possible.

Pollution Prevention Activities in the past year include ongoing programs and practices that deal directly with the areas checked on the following table. We have programs to recycle, reuse or substitute, when possible, the chemicals and materials used on the campus that may pollute the environment.

#### St. Cloud State University, St. Cloud

Pollution prevention continues to be a factor in purchasing and implementation of new procedures. In addition, SCSU procurement policies demand office paper with 30%o minimum total recycled content and 30% post-consumer fiber content. Bath tissue is 95% or more recycled/post consumer fiber.

#### Alexandria Technical College, Alexandria

Alexandria Technical College employs a continuous improvement process that promotes excellence in environmental management and stewards towards energy efficiency by using the implementation of environmentally friendly products and waste stream reduction programs both internally and with our vendor partners. ATC finds audio and video conferencing, on-line employee education products and electronic transfer of reports and data to be energy and time efficient processes that reduce our energy and consumable product consumption.

#### North Hennepin Technical College

We have identified the waste generating sources on campus, and evaluated the waste stream from these sources. Plans have been developed and implemented to separate recyclable/recoverable items in these waste streams to make better use of our resources. Recyclable items like Aluminum, Glass, Cardboard, etc. have been recycled for several years here on campus.

#### Minneapolis Community and Technical College

In order to regulate pollution prevention we have updated our Chemical Hygiene plan to control chemical procurement, reduced waste streams and reduced our hazardous waste generation to a Very Small Quantity Generator. Building and Hazardous Waste Inspections are completed weekly to ensure compliance. This year we added the Storm Water Pollution Prevention Program to MCTC to spread awareness about pollution prevention and reduction. We have also eliminated a waste stream in our Media Production area as they have gone digital.

### Part 3: Quantifiable Measurements for Activities Satisfying Executive Order 04-08

#### **a. Purchase or lease the most fuel-efficient and least polluting vehicles that meet the operational needs of the state department;**

##### Central Lakes College (CLC)

Central Lakes College's first commitment to Executive Order 04-08 was to purchase or lease the most fuel-efficient and least polluting vehicles that meet the operational needs of the state department. In June we purchased three vehicles that have capabilities to burn E85 fuel.

##### Century College

Campus Security has replaced one of their department vehicles with a smaller more fuel efficient Chevy Malibu. This is estimated to save 260 gallons gas per year.

##### Riverland Community College

The college leases vehicles from Travel Management for each building's use and our Farm Management program. We are using E85 fuel or vehicles with a 30-35 mpg rating.

##### St. Cloud Technical College, St. Cloud

We lease our vehicles from Travel Management Division, what they purchase is what we use.

##### St. Cloud State University, St. Cloud

SCSU is focused on purchasing/leasing the most fuel-efficient and least polluting vehicles that meet our operational needs. We've gone from 18 E-85 capable motor pool vehicles to 20 of them. E-85 fuel usage for this fiscal year totals 24,098 gallons. All 15 passenger vans have been replaced with 12 passenger vans. Grounds Maintenance and Athletic Departments are experimenting with golf cart sized/type vehicles also. Everything is being done within the

limitations of overall total cost control and remaining economic life. (This presently limits hybrid considerations; but, we are making the effort).

Alexandria Technical College, Alexandria

Alexandria Technical College currently participates in the State vehicle lease program. Our current fleet of leased vehicles has been upgraded to include vehicles that are more fuel efficient.

North Hennepin Technical College

We also maintain a lease arrangement with a local vehicle rental agency that allows us to obtain more fuel efficient vehicles for travel that involves only a few users/travelers.

**b. Refuel state-operated vehicles with the cleanest fuel available;**

Century College

Century purchases approximately 5000 gallons 10% ethanol gasoline per year for on campus vehicles.

Riverland Community College

Riverland's first commitment to Executive Order 04-08 was to encourage employees to refuel state-operated vehicles with the cleanest fuel available. In May 2005, our Truck Driving program began using Bio-Diesel fuel (less than 500 parts of sulfur per million) in 45% of its trucks, compared to using regular diesel fuel that is 1300 parts of sulfur per million. This year we are using it in 100% of our trucks.

St. Cloud Technical College, St. Cloud

We refuel our leased vehicles with the fuel recommended by Travel Management Division; they are refueled with the cleanest fuel available.

St. Cloud State University, St. Cloud

SCSU is promoting E-85 usage also by making campus refueling with it more convenient. This is in addition to 2 more E-85 vehicles as described in **a.** above.

Alexandria Technical College, Alexandria

ATC has eliminated vehicles from their fleet to reduce fleet capacity of fuel inefficient vehicles.

**c. Encourage employees to consider alternatives to single-occupancy vehicle commuting;**

Central Lakes College

Central Lakes College encourages our employees to car pool as an alternative to single-occupancy vehicle commuting. Employees are encouraged to have teleconference meetings between the campuses whenever possible to cut down on travel.

Century College

Century has added two bus stop shelters to promote mass transit commuting in 2007. Students may purchase discounted bus fares for the semester through the College Connection, a discount purchasing store. The Connection also has an "I Need a Passenger" rideshare bulletin board system. Furthermore, Century maintains a bridge between the East and West Campus which reduces vehicular commuting between the East and West Campuses.

Riverland Community College

Currently Riverland encourages our employees to car pool as an alternative to single-occupancy vehicle commuting. Last year we requested departments report monthly the number of miles they are carpooling and how many are participating. Employees are encouraged to have teleconference meetings between the campuses whenever possible to cut down on travel. Over

the past year (2007) we have seen a lot more carpooling efforts. The logs show 2-5 employees carpooling over 5,000 miles together. We will continue to encourage this and hope to see a rise in logging the miles. It is difficult to get everyone to submit logs.

St. Cloud Technical College, St. Cloud

While Faculty and Staff are on college business carpooling is encouraged and practiced.

St. Cloud State University, St. Cloud

SCSU encourages employees and students to consider alternatives to single-occupancy commuting by co-sponsoring free bus rides with St. Cloud Metropolitan Transit Commission (MTC). Ride shares and car pools are also encouraged and promoted.

North Hennepin Community College

We are developing a message board to allow employees to more easily coordinate car pooling. Our plan is to have this message board accessible from our college web site.

We maintain one 12 passenger van for use by our instructor/student groups for field trips, and the like as well as a pick-up and flat-bed truck that are primarily used for on-campus work and equipment pick-up from suppliers.

Minneapolis Community and Technical College

MCTC is continuing the activities from 2005 and 2006. This year we received an additional 50 bike racks.

**d. Reduce state energy use through purchasing energy-efficient office equipment and appliances;**

Century College

The college purchases only energy-star rated computers and LCD panels. Computer settings are optimized to take advantage of energy-reducing capabilities.

St. Cloud Technical College, St. Cloud

We use an energy management system that helps improve the efficiency of the HVAC system and improve indoor air quality. We are in the process of replacing the ballasts in the lights with electronic ballasts. The campus lights are on motion detector sensors so the lights turn off when they are not needed, this conserves electricity.

The new addition is equipped with energy efficient equipment and includes:

- Office and classroom occupancy sensor lighting controls.

- Alternative classroom and office lighting designs

- Premium efficiency supply/return fan motors.

- CO2 control of outside air.

- Lo E clear2/alum frame windows

- R25 roof insulation

- R16 wall insulation

St. Cloud State University, St. Cloud

SCSU purchase of "Energy Star" appliances and office equipment is encouraged to reduce state energy use. Our IT and Computer Store technicians and managers are a vital part of SCSU controls and Energy Star sleep mode encouragement to promote reduced state energy use compliance. As is strict review of leased or purchased copiers and other office machines. Future SCSU rental unit appliance replacement purchase planning is being challenged to incorporate energy considerations.

Alexandria Technical College, Alexandria

As office equipment is replaced, we strive to find more efficient equipment. More efficient flat screen computer monitors have replaced most of the CRTs at our facilities to reduce energy consumption.

**e. Employ energy-conserving strategies in state-owned or leased buildings;**

Bemidji State University

BSU continued an ongoing program of replacing T-12 fluorescent lights and ballasts and incandescent lights with T-8 high efficiency lamps and electronic ballasts and compact fluorescent lighting. During FY 2007, the replacements resulted in a net reduction of approximately 11, 662 watts of lighting. It is estimated that this will reduce electrical energy consumption by about 60,600 kWh. BSU also received a rebate of \$6500 for the project through Otter Tail Power Company's participation in the [Minnesota Conservation Improvement program \(CIP\)](#).

The potential estimated emissions reductions are:

Reduction (lb)

CO	CO <sub>2</sub>	Hg	NO <sub>x</sub>	PM10	PM2.5	SO <sub>2</sub>	VOC
17.768	111,510.329	0.003	188.048	22.498	17.83	447.720	2.304

The second phase of construction of an addition to the Industrial Technology building included installation of five energy recovery wheels as part of the ventilation system. The devices are expected to reduce energy consumption by an estimated 140, 000 kWh. The estimated potential emissions reductions are:

Reduction (lb)

CO	CO <sub>2</sub>	Hg	NO <sub>x</sub>	PM10	PM2.5	SO <sub>2</sub>	VOC
41.020	257,436.2	0.006	572.32	51.940	39.9	1,033.62	5.32

The project cost was approximately \$000. The estimated annual electric savings is \$00.

Bemidji State University continues to purchase 61,600 kWh/mo of wind-generated electricity for \$1.60 per 100 kWh block above the standard rate. The University is planning to purchase additional wind energy blocks. The wind-generated electricity reduces annual emissions by approximately the following amounts:

Annual Reduction (lb)

CO	CO <sub>2</sub>	Hg	NO <sub>x</sub>	PM10	PM2.5	SO <sub>2</sub>	VOC
216.586	1,359,263.136	0.032	3,021.850	274.243	210.672	5,457.514	28.090

BSU continued an on-going process of installing motion detectors in campus bathrooms and rooms with intermittent use. The sensors automatically turn on lights when the room is entered and turn them off after a period of inactivity. Sensors will continue to be installed on an ongoing basis as funding and time permits.

It should be noted that total energy use is influenced by a number of variables, such as occupancy loads, temperature, humidity, and hours of operation. Therefore, observed changes in

energy consumption cannot be attributed solely to any one activity such as reducing lighting wattage. Normalization for these variables is necessary for accurate analysis of energy use. The values in this report have not been normalized.

#### Central Lakes College (CLC)

We are working with the US Energy Services to purchase fuels at a lower cost to the college. We have an agreement with our local utilities to curtail our electricity and natural gas. We have a propane back-up system at Brainerd that we use when asked by the local utilities. Staples campus has a 1000 gallon fuel oil reserve. We have completed energy savings project at both the Staples and Brainerd Campuses. All lighting is now T8 and classrooms and bathrooms have motion sensors installed.

#### Century College

The College has eliminated 2 hydronic Kewani 165 hp boilers from the West Campus. The College now uses the East Campus boilers to heat both campuses which results in greater efficiency. Note: a 99% efficient Fulton PulsePak hydronic boiler was installed on the West Campus to assist with building warm-up and temperature control. Century also follows state guidelines for building temperatures.

#### St. Cloud Technical College, St. Cloud

We use an energy management system that helps improve the efficiency of the HVAC system and improve indoor air quality. We are in the process of replacing the ballasts in the lights with electronic ballasts. The campus lights are on motion detector sensors so the lights turn off when they are not needed, this conserves electricity.

The new addition is equipped with energy efficient equipment and includes:

- Office and classroom occupancy sensor lighting controls.
- Alternative classroom and office lighting designs
- Premium efficiency supply/return fan motors.
- CO2 control of outside air.
- Lo E clear2/alum frame windows
- R25 roof insulation
- R16 wall insulation

#### St. Cloud State University, St. Cloud

SCSU employs energy-conserving strategies in our buildings. For instance, Centennial Hall Renovation has been completed with special design/engineering contracts and Excel Energy utility specialist involvement to ensure life cycle energy savings. This joint planning has also earned us project rebates of up to \$14K. Memos encouraging heating energy conservation and retrofit projects such as new more energy efficient dorm window replacement are also underway while we become more focused on better building design.

#### Alexandria Technical College, Alexandria

New energy efficient roof-mounted HVAC replacement systems have been installed during the reporting period.

Energy conservation strategies have been a major focus for ATC's Facilities and Maintenance Department. Our continuous energy conservation program includes winterizing all overhead and exterior doors each fall and replacing T-12 fluorescent lighting with a T-8 fixture. The T-8 fixture is 30% more energy efficient than the T-12 model. Our team has replaced one-half of the exterior windows in our main facility with more energy efficient models. This is part of a phased plan that will continue until all of the exterior windows have been replaced. More energy efficient burner units are purchased to replace nonfunctional units on our heating system.

A company was contracted to calibrate and tune up all of the heating system boilers during the reporting period.

**f. Procure & use products with the lowest potential to contribute to air pollution, such as cleaning products with low amounts of volatile organic compounds;**

Century College

The majority of the paint that Century purchases is Harmony and Duration which are low VOC paints.

Riverland Community College

Over the last few years we have encouraged the faculty to use environmentally friendly products and chemicals that would not have to be treated as a hazardous waste when disposing of them. We have succeeded in going from a Small Quantity Generator to a Very Small Generator.

St. Cloud Technical College, St. Cloud

We continually review our products and use the most environmentally friendly products available in our labs, classrooms and maintenance area.

St. Cloud State University, St. Cloud

SCSU actively procures cleaning and painting products based on potential air pollution. Bleach is being restricted. Surface wetting and liquid pump sprays are promoted over aerosols. VOCs are discouraged with a special review safety committee participation to ensure substitution/replacement. Latex paint is promoted with oil based paint use very restricted.

Alexandria Technical College, Alexandria

Our Facilities Maintenance Department has converted most of their cleaning products from aerosol sprays to either pump sprays or squirt bottles to reduce our generation of and exposure to VOCs. This has been communicated to our staff so that they may make informed decisions when purchasing these products.

Minneapolis Community and Technical College

MCTC is continuing to procure and use products with the lowest potential to contribute to air pollution. In addition to those in 2005 & 2006 we have procured the following: JD Stride Citrus HC 0 VOC's, JD Glance NA 0.1 VOC's, JD Crew Restroom Cleaner 0 VOC's, JD Plaza Sealer 20.26 VOC's, SP Sparcling Bowl Cleaner 18.7 VOC's, SP Extraction II Carpet Cleaner 20.9 VOC's, SP Tough on Grease 0 VOC's, and SP Spraybuff 0 VOC's.

**g. Employ landscaping that reduces the need for gasoline-powered maintenance equipment.**

Central Lakes College (CLC)

The second commitment was to employ landscaping that reduces the need for gasoline-powered maintenance equipment. We have reduced our maintained grounds by 4.5 acres by planting prairie grass and building ponds and gardens. We have an ongoing commitment to use prairie restoration plots and gardens college-wide.

Century College

The College planted natural grasses in the vicinity of the bridge. The College also has wet land and wooded areas that are left in natural state.

Riverland Community College

The second commitment was to mow some areas of our campus less than usual. Approximately 8 acres are being mowed less in Austin (estimating 3 hours of tractor use and 5 gallons of fuel per time) In Owatonna, 4 acres are prairie grasses that require very little mowing or care.

St. Cloud Technical College, St. Cloud

Planting of trees and building expansion have reduced the need for use of gasoline powered equipment, less mowing.

St. Cloud State University, St. Cloud

SCSU is experimenting with landscaping and prairie growth which reduces gasoline use.

Alexandria Technical College, Alexandria

Landscaping of newly developed areas employ xeriscaping designs to reduce the use of gasoline-powered maintenance equipment, fertilizers and also to reduce fire hazards.

North Hennepin Community College

This college maintains a small nature preserve area on campus of approximately five acres, which includes a storm water holding pond with multiple varieties of plants and grasses native to Minnesota planted throughout the area.

We plant wild prairie grass where practical on campus to reduce the amount of mowing needed in parking lot islands and other curb areas surrounding our parking lots.

**h. Purchase electricity generated from renewable sources.**

Minnesota State University, Moorhead

MSUM is actively participating in all eight areas of MN Executive Order 04-08. However, reporting of quantifiable measurements is provided for only two specific areas: Landscaping & Renewable Energy. The remaining six activities for executive order 04-08 are discussed in Part 4: Pollution Activities during the fiscal year.

St. Cloud State University, St. Cloud

SCSU still purchases wind generated electricity provided through Excel Energy. Investment is minimal to promote learning opportunities which will help balance higher cost. SCSU has purchased a diesel pickup which will burn vegetable oil from campus.

**FY 2007 Paper Consumption:**

Bemidji State University (BSU)

FY 2007

100% post consumer = 3600 reams (18,000 lb)

30% post consumer = 5400 reams (27, 000 lb)

Virgin = 6430 reams (32, 228 lb)

Paper Type	Energy use (BTUs)	Emissions (Lbs CO <sub>2</sub> )	Wood Use (Lbs)
100% PC	195 Million	32,239	0
30% PC	367 Million	55,635	54,000
Virgin	618 Million	91.692	112000

FY2006

\*100% post consumer = 3600 reams (18,000 lb)

30% post consumer = 5, 400 (27, 000 lb)

Virgin = 6, 424 reams (32, 120 lb)

Paper Type	Energy use (BTUs)	Emissions (Lbs CO <sub>2</sub> )	Wood Use (Lbs)
*100% PC	195 Million	32,239	0
30% PC	376 Million	55, 635	54, 000
Virgin	616 Million	91, 385	112, 000

\* The BSU Print Shop has been using 100% recycled content paper for all of its white paper printing for the last five years. It has been using 30% recycled content paper for all of its colored paper printing for the same amount of time. These values were not included in previous years' reports.

Use of recycled content paper remained and virgin paper in FY 2007 is about the same as compared to FY 2006.

This report includes only paper purchased through Central Stores and the Print Shop. Direct purchases by departments using purchasing cards are not included.

Century College

Century College primarily uses 30% post-consumer content paper for copying and duplication. Actual volume of paper use by category was not available at this time.

St. Cloud State University, St. Cloud

Virgin paper use of about 817 reams (4,085#) of colored paper used in our student union copy shop was close to the 838 reams used last year. (Where feasible, recycled color paper was used.) All of the white paper used in that copy shop was standard campus recycled paper of minimum 30% recycled content and 30% post-consumer fiber content. Campus consumption of this standard recycled paper declined from 124.75 tons (49,900 reams) to about 42,194 reams (or 105,485 pounds).

SCSU continues to move toward commitment to the full a-h range of Executive Order 04-08 activities. Note: much of our progress is general only, (currently very expensive to qualify with hard specifics), as we study and promote system changes to efficiently capture this type of information as we move toward reliable benchmarking and control within an "Academic Freedom" parameter environment.

**FY 2007 E85 Purchase:**

Hennepin Technical College (HTC)

Hennepin Technical College does not have any quantifiable measurements, but we have committed to the following activities:

- a.) Hennepin Technical College didn't purchase any fleet vehicles the past 12 months, but the vehicles we own were the most fuel-efficient available at the time of purchase that met our operational needs.
- b.) Hennepin Technical College refuels our vehicles with the cleanest fuel available.
- c.) Employees are encouraged to utilize video conferencing as an alternative to driving to intercampus meetings and to ride-share whenever possible.
- d.) Hennepin Technical College is reducing energy use by purchasing energy-efficient office equipment and appliances including continued replacement of CRT computer monitors with low energy-consuming LCD flat-screen monitors.
- e.) Hennepin Technical College employs energy-conserving strategies in its buildings through its continued use of computer controlled HVAC systems for lab, classroom and office areas.

The original cooling system (30+ years old) at our Eden Prairie Campus was replaced with the most energy-efficient available.

- f.) Hennepin Technical College replaced three voc parts cleaners in its transportation program at our Eden Prairie Campus with three aqueous cleaners.

## Part 4: Pollution Prevention Activities during the Fiscal Year

### 1. Absorbents

#### Minnesota State University, Moorhead

MSUM continues to utilize cloth-type pads and drip pans whenever possible. These absorbents are cloth-type rags, pads, & socks and are used primarily in Printing Services, Physical Plant, and Dept. of Art & Design. Launderable rags are available and used at some locations.

#### St. Cloud State University, St. Cloud

Absorbent pad and pans or other similar products and launderable rags are increasingly available and used at SCSU. Absorbent materials to contain hazardous chemical spills near floor drains are being supplemented with drain covers and increased training and inspections.

#### Alexandria Technical College, Alexandria

ATC uses absorbents primarily on hydraulic fluids, crankcase oils and other lubricating oils. Absorbents used include pads, socks and granular absorbents. They are used in the Diesel, Marine and Small Engine, campus garages, Maintenance and Warehouse departments. Our Diesel Shop has piloted a study on using a lava ash absorbent instead of a clay-based absorbent, which has resulted in reduced waste material, time that the material must lay on the oil and cost.

### 2. Adhesives

#### Minnesota State University, Moorhead

MSUM continues to enforce the use of only low or no VOC products within buildings to primarily accommodate people with Indoor Air Sensitivities. Products containing VOCs are reviewed prior to use by the Dept. of Environmental Health & Safety so that proper arrangements can be made to minimize personal exposure and indoor air pollution. Contractors are educated on the Indoor Air Sensitivity Program and are expected to comply.

#### St. Cloud State University, St. Cloud

As a matter of practice, SCSU contractors are required to use adhesives that do not generate hazardous vapors. This is not always possible to enforce as often as we would like. (Specific products that provide superior adhesion are sometimes warranted.) But we keep reducing their usage as we find alternatives. The primary goal is to employ a product that will not produce Volatile Organic Compounds (VOC's) that may cause temporary air quality concerns with building occupants.

#### Alexandria Technical College, Alexandria

Adhesives are used by the Facilities Maintenance, Carpentry, Art and Interior Design Departments. Adhesives are used in a manner to reduce waste and exposure. MSDS sheets are retained for each adhesive product used at our sites.

#### North Hennepin Community College

Several types of adhesives are used at this college, primarily in our Art's and Plant Services departments. Every effort is made to properly control product and follow manufacturer recommendations to insure all adhesives are maintained so as to allow product to be completely used and not allowed to be wasted because of poor handling.

### 3. Air Quality, CFCs

#### Minnesota State University, Moorhead

All air handling units/heating systems and drains continue to be routinely inspected and maintained. Maintenance performed on systems containing CFCs are conducted by certified technicians. CFCs are completely recovered, recycled, and documented. Appliances containing CFCs are recycled through approved vendors.

#### St. Cloud Technical College, St. Cloud

In our Automotive Technology and HVAC technician programs, students learn to work with refrigerants under direct supervision of the instructor following all regulatory guidelines using proper equipment and reclaiming procedures. We recycle air conditioning refrigerants to keep them from entering the atmosphere because of the global warming issue.

#### St. Cloud State University, St. Cloud

SCSU continues to go beyond recycling Freon.

#### Alexandria Technical College, Alexandria

As HVAC funds become available, Freon based cooling units are replaced with roof mounted, energy efficient cooling systems further reducing the potential for CFC emissions. Maintenance performed on any system containing CFCs includes complete recovery and recycling of refrigerants by licensed, certified service technicians.

#### North Hennepin Community College

Indoor air quality is a big interest item at this college. Air quality sampling continues to be performed on problem/suspect areas with corrective action taken to prevent future problems. In the past year mechanical upgrades to the air handling systems in two of our older buildings have been completed. These new higher efficiency air handling units will be provided for better air filtration, and increased fresh air being supplied to the interior spaces of these buildings. CFC Refrigerants are in use on campus in Central Plant chillers (R-134A), and several smaller air-conditioning (R-12), and refrigeration units (R-408, 22). No supplies or stocks of refrigerant are kept on campus. Refrigeration units that are found to be leaking are repaired and a more ozone friendly replacement refrigerant retrofitted is made. This type of work performed by qualified outside contractors.

### 4. Antifreeze

#### Minnesota State University, Moorhead

All antifreeze products are recycled by contract with a local reclamation service.

#### St. Cloud Technical College, St. Cloud

We recycle and reuse antifreeze to keep from polluting our environment.

#### St. Cloud State University, St. Cloud

SCSU generates approximately 10-15 gallons of waste antifreeze per year and it is recycled at Eastside Oil Company.

#### Alexandria Technical College, Alexandria

Antifreeze is used mainly in the Diesel Mechanic, Marine and Small Engine and Truck Driving programs and is collected and recycled. Our fleet vehicles are maintained by an independent contractor who collects and recycles antifreeze when it is replaced in vehicles on an as-needed basis.

#### North Hennepin Community College

This College no longer uses antifreeze to winterize cooling coils. A different method has shown favorable results and will be continued. Small quantities of automotive antifreeze from lawn equipment are brought to a local recycler.

## 5. Audits

### Minnesota State University, Moorhead

The Department of Environmental Health and Safety and Physical Plant staff periodically conduct internal audits of university facilities. These audits cover such areas as hazardous waste, storm water management, storage tanks, laboratory procedures, and energy consumption. Individual departments are also asked and encouraged to self-audit periodically.

### St. Cloud State University, St. Cloud

Ross Environmental Inc. performs environmental audit functions as part of their Environmental Health & Safety (EHS) contract with SCSU. The Safety Administrator is instrumental on hazardous waste audits, waste prevention planning, and hazardous waste removal.

Departmental support, staffing focus, and investigative activities in these areas have also increased.

SCSU has continued to implement the suggestions of the latest Minnesota State Colleges and Universities (MnSCU) facilities condition survey. Survey environmental recommendations included specific purchases and capital/ repair projects. These effect HVAC and electrical system revisions and both energy and water conservation measures. The University is continuing to benefit from their insights.

### Alexandria Technical College, Alexandria

Audits mandated by OSHA, RCRA and the MPCA are conducted and recorded as outlined in the regulations.

## 6. Automotive Fuels

### Hennepin Technical College (HTC)

Hennepin Technical College refuels our vehicles with the cleanest fuel available.

### Bemidji State University (BSU)

Bemidji State University has 57 maintenance and fleet vehicles.

One is a gas-electric hybrid and six are flexible fuel vehicles. None of the flex fuel vehicles were operated on E85 fuel during FY 2007 due to continued limited availability of the fuel in our region and decreased range of travel. Use of E85 will be initiated when it is more widely available in our region.

### Central Lakes College (CLC)

We are working with the US Energy Services to purchase fuels at a lower cost to the college.

Central Lakes College's first commitment to Executive Order 04-08 was to purchase or lease the most fuel-efficient and least polluting vehicles that meet the operational needs of the state department. In June we purchased three vehicles that have capabilities to burn E85 fuel.

### Century College

Campus Security Department replaced one of their department vehicles with a smaller more fuel efficient Chevrolet Malibu. This is estimated to save 260 gallons gas per year.

### Minnesota State University, Moorhead

The automotive fleet is available to faculty, staff, and students. Due to the broad nature of vehicle use and the lack of area stations providing E-85, it continues to be difficult for the

university to monitor the amount of E-85 fuel purchased. The fleet includes 10 sedans, one minivan, and six 12-passenger vans. Two sedans are equipped for E85 use. The use of E85 fuel is encouraged. To help reduce emissions and save energy the Physical Plant has a GEM E-4 electric car for use on the main campus while the Athletics Department uses three GEM E-4 cars to travel throughout campus. The cost to operate the GEM E-4 cars is approximately \$30 per year averaging 50 miles per week, whereas a gas automobile would require a cost of approximately \$400 for the same use. During summer months bio-diesel is primarily used in the Physical Plant's lawn tractors, skidsteer and payloader equipment, trucks, and other heavy equipment. During winter months these same vehicles are fueled with low-sulfur diesel fuel. The Physical Plant also operates a propane fueled truck.

St. Cloud State University, St. Cloud

SCSU has (13) 2005/2006 5-passenger Ford Taurus(s), (4) 7-passenger Dodge Caravans and (5) 12-passenger Ford Club Wagons on the Motor Pool Fleet for a total of 25 vehicles. They produce limited carbon monoxide. The University has on-site E85 refueling and has pumped 24,098 gallons of it for motor pool use this last fiscal year. (The Minnesota Dept. of Commerce/ State Energy Office monitors E85 usage).

Alexandria Technical College, Alexandria

ATC currently has one E85 vehicle in its fleet. The total gallons of E85 fuel used in this vehicle is not available to our campus at this time. ATC has specified that vehicles leased in the future should be E85 compliant.

North Hennepin Community College

Fuel for grounds equipment is stored in an above ground 285-gallon Diesel tank having secondary spill containment. Gasoline for small equipment is kept in approved safety cans and stored in an approved safety cabinet. E85 fuels have not been used on our older vehicles.

## 7. Automotive Maintenance

Minnesota State University, Moorhead

Automotive fleet maintenance is primarily conducted by off-campus vendors. Any on-campus maintenance is conducted in the Physical Plant's auto mechanics shop. All used oil, filters, and antifreeze are recycled by local vendors. The university also uses a citrus-based environmentally friendly parts washing fluid in its auto mechanics shop.

St. Cloud State University, St. Cloud

The SCSU vehicle repair shop has revamped procedures for brake pad/shoe replacement to ensure asbestos fiber release control. Replacement pads are non-asbestos.

Alexandria Technical College, Alexandria

Automotive maintenance and repairs are performed by local vendors who recycle oil, oil filters, batteries and air conditioning refrigerants. ATC coordinates vehicle replacements through the State vehicle leasing program. As replacement criteria warrant the vehicles in our fleet are replaced with more fuel efficient models.

North Hennepin Community College

Major repairs to our vehicles are performed by automotive dealerships. Minor maintenance such as oil and filter changes are performed by qualified staff on campus. The recapture of used oils, filters, and antifreeze is performed by these individuals. Recycling of this used material is performed by a local vendor.

## 8. Batteries

#### Minnesota State University, Moorhead

All batteries, including lead acid, nickel cadmium, lithium, mercury oxide, and silver oxide, continue to be collected and recycled. Automotive batteries are changed and recycled through a local dealer. Use of alkaline rechargeable batteries is promoted to those departments who use large amounts.

#### St. Cloud Technical College, St. Cloud

All batteries are recycled. When a new lead-acid battery is purchased, the old one is taken in for exchange. Other batteries are recycled through a local supplier.

#### St. Cloud State University, St. Cloud

SCSU stores unreliable automotive lead acid batteries in a secondary container until recycling pickup and is also recycling smaller sealed lead acid batteries. Non Special Program hazardous waste type batteries are managed for recycling/ reclamation quarterly through Batteries Plus and through the University of Minnesota Chemical Safety Day Program.

#### Alexandria Technical College, Alexandria

All spent nickel-cadmium, lead acid, nickel metal hydride, mercury button and lithium batteries generated at ATC are recycled through approved recycling contractors.

#### North Hennepin Community College

All batteries are recycled. Every effort is made to insure that when a lead acid battery is being replaced that an old worn out one is brought in for exchange at the time of the new battery purchase. Other batteries are recycled through a local supplier.

## 9. Cleaning Supplies

#### Bemidji State University (BSU)

Environmentally preferable cleaning products continue to be used in the student residence areas. The products include a floor cleaner, multi-purpose cleaner, glass cleaner and carpet cleaner. All the products are Green Seal certified. Products are being distributed with metered dispensers that help to reduce the amount of products used and prevents waste.

#### Central Lakes College (CLC)

Over the last few years we have encouraged the faculty to use environmentally friendly products and chemicals that would not have to be treated as a hazardous waste when disposing of them. We have succeeded in going from a Small Quantity Generator to a Very Small Generator.

#### Century College

Physical Plant Operations as eliminated almost all of their aerosol products and continues to look for most environmental products available.

#### Minnesota State University, Moorhead

All buildings are equipped with general cleaning stations involving equipment that accurately dispense the proper amount of a concentrate needed to reduce waste. The campus has moved away from not only low VOC cleaners, but many of the products in use are actually Green Seal approved. These products help those individuals in the MSUM community who suffer from Multiple Chemical Sensitivities in addition to being environmentally friendly. To help reduce volume and waste, cleaning supplies that are no longer used by a department are made available for use to other departments. Improvement continues as cleaning supplies become increasingly safer and are being tested and implemented on a regular basis.

#### St. Cloud Technical College, St. Cloud

Environmentally friendly cleaning supplies are used whenever possible. MSDS sheets are maintained in the maintenance office, accessible to all custodians, application and safety procedures are adhered to when products are dispensed and used.

St. Cloud State University, St. Cloud

A SCSU committee has been in place for several years that reviews cleaning products that can be substituted for those which pose a hazard to the employee using them or pose a pollution risk. Cleaning products are purchased in bulk as much as possible and then transferred into hazard labeled re-useable/refillable bottles and containers. VOC considerations are very important (as they also are in our painting products). On June 31, 2007, our General Maintenance Workers on campus will receive a training program on "Green Cleaning".

Alexandria Technical College, Alexandria

Environmentally friendly cleaning products are used in many applications throughout the campus. Environmental stewardship is of utmost concern when evaluating cleaning products for purchase for use on our campus. MSDS sheets for these products are maintained on-site and employees receive training compliant with the Right to Know Act. Products eliminated from our programs are managed through the University of Minnesota Chemical Safety Day Program. Our Facilities Maintenance Department has converted most of their cleaning products from aerosol sprays to either pump sprays or squirt bottles to reduce our generation of and exposure to VOCs. This has been communicated to our staff so that they may make informed decisions when purchasing these products.

North Hennepin Community College

We try to keep all cleaning supplies environment friendly. MSDS sheets are maintained in each custodial closet, and safety procedures are adhered to when products are dispensed and used.

Minneapolis Community and Technical College

MCTC is continuing to procure and use products with the lowest potential to contribute to air pollution. In addition to those in 2005 & 2006 we have procured the following: JD Stride Citrus HC 0 VOC's, JD Glance NA 0.1 VOC's, JD Crew Restroom Cleaner 0 VOC's, JD Plaza Sealer 20.26 VOC's, SP Sparcling Bowl Cleaner 18.7 VOC's, SP Extraction II Carpet Cleaner 20.9 VOC's, SP Tough on Grease 0 VOC's, and SP Spraybuff 0 VOC's.

## 10. Commuting and Transportation

Hennepin Technical College (HTC)

Employees are encouraged to utilize video conferencing as an alternative to driving to intercampus meetings and to ride-share whenever possible.

Central Lakes College (CLC)

Central Lakes College encourages our employees to car pool as an alternative to single-occupancy vehicle commuting. Employees are encouraged to have teleconference meetings between the campuses whenever possible to cut down on travel.

Century College

Century has added two bus stop shelters to promote bus rider ship. Students may purchase discounted bus fares for the semester through the College Connection office.

Riverland Community College

Currently Riverland encourages our employees to car pool as an alternative to single-occupancy vehicle commuting. Last year we requested departments report monthly the number of miles they are carpooling and how many are participating. Employees are encouraged to have teleconference meetings between the campuses whenever possible to cut down on travel.

Over the past year (2007) we have seen a lot more carpooling efforts. The logs show 2-5 employees carpooling over 5,000 miles together. We will continue to encourage this and hope to see a rise in logging the miles. It is difficult to get everyone to submit logs.

Minnesota State University, Moorhead

Approximately 77% of MSUM students are living off campus. This along with faculty and staff equals a large commuter base for the University. University administration continually promotes students to take advantage of on-campus living and promotes new student housing construction projects. Campus Security and Parking Enforcement utilize bicycles instead of automotive vehicles to patrol campus. The university is increasing the number of bicycles racks around campus promoting their use. Two programs have been implemented with great success reducing the number of single-car commuters. The Metro Area Transit bus system has arranged a partnership with MSUM to allow free transportation for students, faculty, and staff. Routes run every ten minutes and reduce the number of commuters, especially during inclement weather. Approximately 65,000 riders utilized this service and it continues to increase in popularity and riders. MSUM Student Senate implemented a Taxi rider ship program for MSUM students. The Drive-a-Dragon program allows students to take a taxi (fueled by E-85) anywhere in the Fargo-Moorhead Metro Area for \$2 during the hours of 9 pm-6:30 am. There are approximately 2300 students enrolled in this program. Also, due to the diversity of programs at MSUM, any students, faculty, or staff attending off-campus meetings and conferences are strongly encouraged to form a car pool in order to reach their destination.

St. Cloud Technical College, St. Cloud

Carpooling is strongly encouraged when on college business.

St. Cloud State University, St. Cloud

SCSU has moved beyond subsidizing bus passes for students and faculty to joining with Student Government and St. Cloud MTC to provide a new Free Ride program. This includes evening transportation in the campus area. This partnering with St. Cloud Metropolitan Transit Commission provides free service on 17 bus routes to current SCSU ID cardholders. Over 30 Apartment complexes are within 20 bus minutes of campus. Parking congestion is reduced. Clipper West route riders have increased 107 percent for January 2004 compared to January 2003.

Alexandria Technical College, Alexandria

Due to the rural nature of our campus, this component has not been evaluated.

Minneapolis Community and Technical College

MCTC is continuing the activities from 2005 and 2006. This year we received an additional 50 bike racks.

## 11. Education, Communications and Training

Bemidji State University (BSU)

Bemidji State University continues to require environmental courses for satisfactory completion of the Liberal Arts core. "People and the Environment" is one of 11 categories in the University's Liberal Education Program. Students pursuing a bachelor's degree must take a minimum of one, three credit course, in this category.

Minnesota State University, Moorhead

The Dept. of Environmental Health & Safety continues to educate the university community regarding hazardous waste management, pollution control measures, storm water runoff, spill prevention, and other requirements throughout the year. Due to the diverse community and

resources on our campus, MSUM offers many classes with respect to environmental education. These classes follow strict curricula of current and past issues, events, and a complete understanding of environmental processes. Students have taken the initiative to form groups of their own that help raise awareness within the community as well. These groups help educate the university community by becoming involved in yearly events such as Earth Week, campus cleanup day, and many more.

A new Sociology class titled People and Environment has been added to the incoming freshman core curriculum. The goal of the class is to develop students' understanding of the concept of sustainability and the challenges in responding to environmental problems. Students examine how societies and the natural environment are intimately related and develop a better understanding of ecosystems and the ways in which different groups interact with their environments.

In Fall 2003, a group of MSUM students came together to create a Sustainable Campus Initiative. This document contained a list of goals and recommendations for MSUM to help university evolution toward a more sustainable future. This document was taken to the MSUM student senate, and work began on creating a student fee to be used for sustainable campus projects. The fee was implemented in fall 2004. The environmental fee is \$3 per semester and is charged to each full-time student during Fall and Spring semester. This money goes into a fund that generates approximately \$45,000 per semester. Of those funds, 100 percent are directed toward the development of sustainable procedures, programs, facilities, and curriculum. Projects currently under way include a wide variety of tasks that affect facilities, policy, curriculum, services, and education of the MSUM community. The development of a student-owned wind turbine, which would provide power for student facilities, remains a priority of research and funding. Other projects include managing the Residence Halls' recycling program and working with architects to ensure that the construction of the student wellness center follows LEED (Leadership in Energy and Environmental Design) certification recommendations. A task force was formed to manage the money and to research options for improving the MSUM environment. The Sustainable Campus Initiative Committee evolved from that task force and is now managing the funds. The Sustainable Campus Initiative Committee has MSUM students as a majority and contains university staff members, faculty members, and administrators. Regular meetings are held monthly during the academic year.

The students main outreach this year included competing in Recycle Mania, the National Wildlife Federation Campus Ecology Program's national recycling competition, funding/planting over 50 trees on campus, funding/installing 17 permanent bicycle racks, funding a bicycle for Parking enforcement, and sponsoring on the MSUM campus a Tri-College Earth Day Celebration along with Concordia College, Moorhead and North Dakota State University, Fargo. Another major accomplishment was signing of the Talloires Declaration by MSUM President Dr. Roland E. Barden. This declaration states the university is willing to incorporate sustainability in its teaching and business practices.

#### St. Cloud Technical College, St. Cloud

Training is being provided to staff on proper handling of hazardous materials. A Hazardous Waste program is in place and the appropriate staff was trained on its contents. We also train our students, with a one credit Haz-Mat class, to be environmentally friendly so we pass on to all transportation students these same procedures plus many more.

#### St. Cloud State University, St. Cloud

The Environmental and Technological Studies Department of SCSU reflects increased opportunities for pollution prevention emphasis in the region of laboratory procedures. A

Master of Science program in Environmental and Technical Studies, begun seven years ago and serving a wide variety of backgrounds, finds about a third of program students are licensed teachers returning to school. Other research interests include recycling, landfills, and public perceptions of fuel cell technology.

Alexandria Technical College, Alexandria

ATC finds audio and video conferencing, on-line employee educational products, facsimile transmissions and electronic transfer of reports and data to be energy and time efficient processes that reduce our energy and consumable product consumption. ATC recently received approval to provide on-line degrees which also reduces energy and consumable product consumption by allowing the students to receive and submit educational products electronically.

North Hennepin Community College

Bright colored signs and containers are prevalent in buildings and on our grounds throughout campus. Plant Services staff is aware of the importance of our recycling effort, with new hires trained on proper procedure before they are allowed to work independently.

## 12. Electronics

Hennepin Technical College (HTC)

Hennepin Technical College is reducing energy use by purchasing energy-efficient office equipment and appliances including continued replacement of CRT computer monitors with low energy-consuming LCD flat-screen monitors.

Bemidji State University (BSU)

All Apple and Gateway computers and HP printers purchased through the University Computer Support Services are Energy Star compliant.

Century College

The college purchases only energy-star rated computers and LCD panels. Computer settings are optimized to take advantage of energy-reducing capabilities.

Minnesota State University, Moorhead

The re-use of PC's on the MSUM campus is very much encouraged. There is a strong program towards department trading of PC's and donation to student organizations and non-profit organizations. This program reduces the number of required new PC's and extends the service life of older machines. Also, most of the electronics on the MSUM campus have been updated to meet Energy Star requirements that help reduce campus-wide consumption of resources. All unwanted electronics are recycled through the Dept. of Environmental Health & Safety, who in turn works with recycling vendors from the state contract list.

St. Cloud Technical College, St. Cloud

All electronics (circuit boards, computer monitors, computers etc.) are properly disposed of through licensed contractors. (University of Minnesota Chemical Safety Day Program) The SCTC IT dept. has a toner cartridge recycling program. They take all of the used toner cartridges from the college and send them free of charge in prepaid shipping boxes to the company called the Funding Factory. A second thing the IT department does is turn in our old outdated or non-functioning technology items such as computers, printers, and monitors to a company called Asset Recovery Corporation.

St. Cloud State University, St. Cloud

The SCSU business office provides for the reuse of some computers, electronic equipment and other property through the surplus property resale program. E-mail announcements also help

relocate electronic equipment from surplus to reuse in another department. Other electronic equipment (shipments totaling about 66,693# and net cost of about \$18,358) were recycled for somewhat offsetting commodity and precious metal credits. Styrofoam from computer, electronic, and other shipping cartons was also recycled.

Alexandria Technical College, Alexandria

ATC purchases equipment that is Star Energy compliant. Obsolete electronics no longer in use at our facilities is either offered for purchase, donated to a nonprofit organization or recycled through an approved, licensed electronics recycling vendor according Minn. Stat. §16C.23, subd. 6 specifications.

North Hennepin Community College

All discarded electronics are properly disposed of by a licensed local contractor. Due to cost considerations we no longer lease our computer equipment; it is direct purchased from the supplier. Used and outdated equipment that no longer meets the needs of our curriculum are offered to other state schools for there us. Electronics equipment that is found to no longer be serviceable is recycled through a licensed local contractor.

### 13. Energy - Use

Hennepin Technical College (HTC)

Hennepin Technical College didn't purchase any fleet vehicles the past 12 months, but the vehicles we own were the most fuel-efficient available at the time of purchase that met our operational needs.

Hennepin Technical College is reducing energy use by purchasing energy-efficient office equipment and appliances including continued replacement of CRT computer monitors with low energy-consuming LCD flat-screen monitors.

Bemidji State University (BSU)

Employ energy-conserving strategies in state-owned or leased buildings – in progress.

Purchase electricity generated from renewable sources – initiated purchase of wind power energy blocks in September 2006.

BSU continued an ongoing program of replacing T-12 fluorescent lights and ballasts and incandescent lights with T-8 high efficiency lamps and electronic ballasts and compact fluorescent lighting. During FY 2007, the replacements resulted in a net reduction of approximately 11, 662 watts of lighting. It is estimated that this will reduce electrical energy consumption by about 60,600 kWh. BSU also received a rebate of \$6500 for the project through Otter Tail Power Company's participation in the [Minnesota Conservation Improvement program](#) (CIP).

BSU continued an on-going process of installing motion detectors in campus bathrooms and rooms with intermittent use. The sensors automatically turn on lights when the room is entered and turn them off after a period of inactivity. Sensors will continue to be installed on an ongoing basis as funding and time permits.

Central Lakes College (CLC)

Whenever possible we purchase energy-efficient appliances to reduce state-energy uses at our college.

We are working with the US Energy Services to purchase fuels at a lower cost to the college.

We have an agreement with our local utilities to curtail our electricity and natural gas. We have a propane back-up system at Brainerd that we use when asked by the local utilities. Staples campus has a 1000 gallon fuel oil reserve. We have completed energy savings project at both

the Staples and Brainerd Campuses. All lighting is now T8 and classrooms and bathrooms have motion sensors installed.

#### Century College

The College has eliminated two hydronic Kewani 165 hp boilers from the West Campus. The College now uses the East Campus boilers to heat both campuses which results in greater efficiency. Note: a 99% efficient Fulton PulsePak hydronic boiler was installed on the West Campus to assist with building warm-up and temperature control. Century also follows state guidelines for building temperatures.

#### Riverland Community College

Whenever possible we purchase energy-efficient appliances to reduce state-energy uses at our college. All lighting fixtures have been retrofitted with energy-efficient ballasts and bulbs. We have an agreement with our local utilities to curtail our electricity use by 163 kW per day in Austin whenever we are requested to. In Albert Lea, we have a propane back-up system that we use when asked by the local utilities. In November 2005 in response to the Governor's Executive Order 05-16 we lowered all thermostats to the recommended guidelines. In Spring 2006 all thermostats were raised to the recommended guidelines. We will continue this practice as the seasons change. By monitoring academic classes and campus functions we are able to set units back to unoccupied temperatures through our computerized energy management system.

#### Minnesota State University, Moorhead

To help better understand ways the university community can save on energy consumption, the campus recently conducted an energy audit. This audit examined lighting, heating, and includes a first ever water usage assessment. Recommendations following the energy audit's approval will most likely include additional lighting sensors in academic and campus residence halls, steam trap reductions in the heating system, reducing water usage in restrooms, and implementing energy saving procedures for the indoor pool area.

Abiding with Executive Order 05-16, Providing for Energy Conservation Measures for State Owned Buildings, MSUM continues to maintain operational changes to conserve energy and reduce state energy costs by lowering heating temperatures, raising cooling temperatures, and other measures as defined in the executive order by Governor Pawlenty.

Design and construction of a new Student Wellness Center centers on adopting practices of LEED Certification. LEED (Leadership in Energy and Environmental Design) Green Building Rating System<sup>®</sup> is a voluntary, consensus-based national standard for developing high-performance, sustainable buildings.

When purchasing new electronic office equipment and appliances, MSUM continues to purchase Energy Star rated devices through state contracts or select vendors.

#### St. Cloud Technical College, St. Cloud

Our College campus uses clean burning natural gas for heating and #2 fuel oil as a backup fuel. Our Building Maintenance Supervisor has instituted a regular preventative maintenance program to ensure the boilers are operating at peak efficiency. This ensures the fuel is burned efficiently releasing less pollutants into the air.

Lights are on automatic motion sensors, when not required the lights turn off to conserve energy.

#### St. Cloud State University, St. Cloud

As part of a \$3 million energy conservation project with NSP, SCSU has shaved peak demand by about 25%. Occupancy sensors, LED exit lights, high efficiency fluorescent lights, and variable frequency motor drives also reduce consumption and pollution as does the computerized energy management system. More efficient lights are planned for our main

athletic facilities. Florescent bulbs were recycled. Trash was burned in Elk River to produce electricity.

#### Alexandria Technical College, Alexandria

Energy conservation strategies have been a major focus for ATC's Facilities and Maintenance Department. Our continuous energy conservation program includes winterizing all overhead and exterior doors each fall and replacing T-12 fluorescent lighting with a T-8 fixture. The T-8 fixture is 30% more energy efficient than the T-12 model. All spent fluorescent bulbs are recycled by a licensed contractor.

Our Facilities Team continues to replace the exterior windows in our main facility with more energy efficient models. This is part of a phased plan that will continue until all of the exterior windows have been replaced.

During the 2007-08 fiscal year, the roof on the 100 and 200 wings were resurfaced during which the insulation was upgraded to increase the roof's insulating capacity and efficiency.

As equipment is replaced, we strive to find more efficient equipment. More efficient flat screen computer monitors have replaced most of the CRTs at our facilities to reduce energy consumption.

ATC has installed motion detection lighting systems in the restrooms of newly constructed facilities to reduce energy consumption. Security Staff perform a lock down of the facilities each evening during which they turn off lights and computer monitors as they lock each classroom.

#### North Hennepin Community College

At present we have renovation projects taking place in several areas. These renovated areas will have energy efficient lamps, ballast and motors. All of our used lamps are recycled by a licensed local contractor.

## 14. Energy Production

#### Central Lakes College (CLC)

We have installed a furnace that will burn corn at our Ag Facility. The payback for the furnace is expected in 2 to 3 years.

#### Minnesota State University, Moorhead

As a Charter Member of the Capture the Wind program, MSUM has been purchasing renewable wind energy since 1999 and currently has a 10 year agreement with Moorhead Public Service to purchase a block of 333,332 KWH/ year of wind generated electricity; this represents 2% of the campus's power needs. This equates to a total emissions reduction (lb): CO – 97.666; CO<sub>2</sub> – 612,940.882; HG – 0.014; NO<sub>x</sub> – 1,362.661; PM<sub>10</sub> – 123.666; PM<sub>2.5</sub> – 95; SO<sub>2</sub> – 2460.990; and VOC – 12.667. This commitment has a substantial impact on the environment, reducing the amount of greenhouse gases emitted into the air by an estimated 723,000 pounds each year. That is equivalent to planting 99 acres of trees each year or taking 72 cars off the road each year by reducing pollution. At the end of 10 years, MSUM will have prevented an estimated 7.3 million pounds of green house gases from being emitted into the air, which is equivalent to planting 986 acres of trees or removing 723 cars from the road over that 10-year period.

Following the implementation of a Student Environmental Fee, the Sustainable Campus Initiative Committee (SCIC) continues to strongly pursue the construction of a wind turbine. The electricity produced will be equal to the amount needed to operate the Student Wellness Center complex.

#### St. Cloud State University, St. Cloud

As with the SCSU lighting improvements identified above in Item 13, NSP also conducted an audit into all other phases of energy savings. These recommended improvements have been made as well. For instance, a new boiler was installed and is now frequently operated. This boiler operates on No. 2 oil, and MPCA-required air pollution testing has shown minimal (far below any action level) pollution particles being emitted from the stacks when this boiler is being operated.

Alexandria Technical College, Alexandria

ATC does not produce electrical or solar energy on its campus.

North Hennepin Community College

North Hennepin Community College does not have standby generator capacity. No electrical energy is produced at this site. Monthly usage of electricity and fuels are monitored to help insure efficient operation of facilities.

## 15. Groundwater Wells

Minnesota State University, Moorhead

MSUM currently obtains water from only one well site. This well is located at the Buffalo River Science Center and provides water to that facility only. The well at the Science Center is 83 foot deep and utilizes groundwater from the Buffalo Aquifer. This well is regularly monitored by the Minnesota Department of Health. The main campus of MSUM is supplied water by Moorhead Public Service. They obtain 85% of their water supply from the Red River, and only 15% from seven groundwater wells.

St. Cloud Technical College, St. Cloud

The wells on SCTC campus are used for lawn irrigation.

St. Cloud State University, St. Cloud

SCSU has a small number of groundwater monitoring wells used for research purposes.

North Hennepin Community College

There is one deep well on site. This well is used for lawn irrigation purposes only.

## 16. Heavy Metals

Minnesota State University, Moorhead

Within the photo development areas on campus, silver continues to be reclaimed. Also, all mercury bearing thermometers continue to be replaced by non-toxic alternatives as they are found.

St. Cloud Technical College, St. Cloud

Classrooms have switched from mercury instruments to electronic wherever they could. As thermostats, gauges etc, need replacing we are replacing them with non-mercury containing parts as much as possible.

St. Cloud State University, St. Cloud

Campus-wide, efforts continue at SCSU to minimize mercury use and mercury thermometers. Waste photographic paper and chemicals are processed off-site to render them nonhazardous and recover silver. Conversion to a bulk storage and transfer process for spent photo fixer has cut costs.

Minor amounts of gold, silver, copper, and palladium were recovered from our electronic recycling program. Small amounts of heavy metal compounds were removed from SCSU using the U of M Chemical Safety Day Program.

Alexandria Technical College, Alexandria

Very minimal amounts of heavy metals are used on campus. ATC coordinates the disposal of heavy metals, more particularly mercury, with the University of Minnesota and the Chemical Safety Day Program.

North Hennepin Community College

Hazardous waste disposal is no longer through the U of M, but through the Minnesota State Contract.

## 17. HVAC, Indoor Quality

Hennepin Technical College (HTC)

Hennepin Technical College employs energy-conserving strategies in its buildings through its continued use of computer controlled HVAC systems for lab, classroom and office areas. The original cooling system (30+ years old) at our Eden Prairie Campus was replaced with the most energy-efficient available.

Minnesota State University, Moorhead

The Department of Environmental Health and Safety, in collaboration with the Physical Plant, reviews any carpeting plans prior to installation insuring low VOC adhesives are used and the carpet meets the Carpet and Rug Institute's indoor air quality emission guidelines. EH&S also oversees the Indoor Air Sensitivity Program that involves the monitoring of adhesives, paints, cleaning products, etc. that may contain VOCs when used in campus buildings.

St. Cloud Technical College, St. Cloud

Indoor air quality at St. Cloud Technical College is a high priority. A regular preventative maintenance program is in place to ensure the HVAC system is clean, filters are changed periodically and the system is operating at peak efficiency. This ensures good indoor air quality for the employees and students.

St. Cloud State University, St. Cloud

SCSU is using a carbon dioxide chart recorder to assist in ventilation troubleshooting. Custodial staff, HVAC staff, HR personnel, and DOER Industrial Hygienists have become much more involved in complaint and mold response. Many special forms are being used to procure and track occupant data. The painting department not only uses water based paints and varnishes but is also upgrading ventilation controls to improve and IAQ. Strict carpet emission controls are used extensively to limit Volatile Organic Compounds (VOC's). Minnesota Department of Administration, Facilities Management Bureau "Building Air Quality" 5/95 guidelines for building owners and facility managers have been extensively studied and implemented. High efficiency vacuum cleaner bags and HVAC filters help.

Alexandria Technical College, Alexandria

As HVAC funds become available, Freon based cooling units are replaced with roof-mounted, energy efficient cooling systems which reduce energy consumption. New roof-mounted energy efficient HVAC systems were installed during the reporting period. A contractor calibrated and tuned up all of our boilers to increase their operating efficiency.

North Hennepin Community College

We plan on continuing our program of monitoring/testing indoor air quality. This past year we performed testing in our Health and Wellness Center and our Plant Service Duplicating area.

## 18. Ice Control, Sanding

#### Minnesota State University, Moorhead

The University's Physical Plant aggressively removes ice and snow and uses primarily sand-only methods of ice control on campus sidewalks, parking lots, and other susceptible areas. Each spring the remaining residue is swept up and recycled at the city compost site.

#### St. Cloud Technical College, St. Cloud

The Building Maintenance employees use environmentally friendly ice melt on our sidewalks. This cuts down on the use of straight salt.

#### St. Cloud State University, St. Cloud

Masonry sand works well by not being too abrasive on our SCSU equipment. Salt use in sanding mix was minimized by controlling salt content based on outside temperature. An additional sanding unit allowed improved sidewalk sanding response. Very little mix was stockpiled. It was kept on a slab and covered with tarpaulins to control salt leeching.

#### Alexandria Technical College, Alexandria

Heating units have been installed in several sidewalks accessing campus facilities. This is a phased program that will continue over the next several years. Heated sidewalks greatly reduce the need for sanding and deicing chemicals in addition to reducing the ergonomic hazards associated with snow removal. A calcium chloride based product mixed with sand is applied after snow and ice removal to unheated walkways, as needed, for ice control. Gutters installed above entrances and walkways also reduce ice accumulations caused by snow melt.

#### North Hennepin Community College

All sidewalks are cleared of snow and ice, and ice melt applied as needed throughout the winter. Our practice of snow plowing followed by using power brooms, our sidewalks has greatly reduced the amount of ice melt used on campus. A plowing contractor performs snow removal from our parking lots. We are able to better determine when and where to sand parking lots in order to keep sand use to only what is needed by having available a vehicle mounted sand spreader.

## 19. Laboratory

#### Bemidji State University

The BSU Chemistry Department continues to incorporate micro-scale laboratory techniques into its courses. This reduces both the amount of hazardous wastes generated and the amount of new chemicals needed.

#### Minnesota State University, Moorhead

Extensive safety and procedural training/testing are required of all students participating in Chemistry, Physics and Bioscience labs. Chemical neutralization is taught and incorporated in many experiments, producing a sewer-friendly product. Chemicals continue to be centralized and tracked with an electronic inventory system. This system allows faculty/staff to track and inventory chemicals at MSUM facilities eliminating the need for duplication of chemicals and providing less waste.

#### St. Cloud Technical College, St. Cloud

As the laboratories and classrooms at SCTC are being renovated new and updated equipment is being installed to prevent pollution of the air. (air filtering systems in paint booths, welding areas and labs to prevent pollutants from being released into the air.)

#### St. Cloud State University, St. Cloud

Health Services is improving policies and laboratory controls as a result of voluntary OSHA Industrial Hygiene inspection partnering. They have been very proactive in upgrading Blood borne Pathogen controls, and both written response plans and cleaning/disinfection schedules. The Chemistry Safety Committee (CSC) and Chemical Hygiene Officer (CHO) and new CHO assistant have been instrumental in fostering better lab user training, labeling, eyewash/shower inspection and hazardous waste control. They have assisted the expansion of SCSU's hazardous waste disposal and recycling program to ID & remove over 70 unknowns.

After hours work controls and the Chemical Hygiene Plan (CHP) reviews have received special emphasis in all College of Science and Engineering (COSE) departments having labs.

Renovations have included the addition of more plumbed eyewashes.

#### Alexandria Technical College, Alexandria

All campus laboratories collect and dispose of medical and biological waste in approved containers and according to OSHA Standards. Chemicals no longer in use by the laboratories are managed through the University of Minnesota's Chemical Safety Day Program. All employees receive blood borne pathogen training, including a review of our written response plan, on an annual basis.

#### North Hennepin Community College

Our old contract with MacNeil Environmental Services has been allowed to end as a result of our hiring a full time health and safety specialist to oversee this area.

## 20. Landscaping

#### Bemidji State University

The University continues to maintain an 860 ft<sup>2</sup> native perennial planting area established in FY 2006. The area was previously planted with annuals. The University has a goal of expanding native perennial plantings across campus.

BSU continues to maintain over 600 feet of Lake Bemidji shoreline with native plants and rocks as part of a lakeshore restoration and stabilization project that was completed in 2003.

#### Central Lakes College (CLC)

Central Lakes College employ landscaping that reduces the need for gasoline-powered maintenance equipment. We have reduced our maintained grounds by 4.5 acres by planting prairie grass and building ponds and gardens. We have an ongoing commitment to use prairie restoration plots and gardens college-wide.

#### Century College

The campus has wetlands and wooded areas that are left in natural state.

#### Minnesota State University, Moorhead

Current procedures for lawn, tree, and flower maintenance for the university campus continue to be reviewed in order to reveal areas where improvement is needed. Due to the large grassy mall area in the center of campus, it remains difficult to make improvements without drastic changes to its aesthetics and character. During the past year approximately .5 acres of perennial and annual gardens have replaced lawn grass areas in and around buildings, including areas disturbed while replacing/upgrading underground water supply lines to campus buildings and around the newly remodeled Murray Commons and MacLean Hall. These new gardens equate to a total emissions reduction (lb): CO – 245.893; CO<sub>2</sub> – 445.450; NO<sub>x</sub> – 1.258; PM<sub>10</sub> – .755; PM<sub>2.5</sub> – 0.694; SO<sub>2</sub> – 0.092; and VOC – 7.077.

MSUM's Regional Science Center implements a minimum landscaping policy. The Science Center is home to natural prairie and large wooded areas. Very little mowing is provided,

which not only reduces fuel consumption and emissions, but also allows the Science Center to promote an environmentally friendly image. Weed control with invasive leafy spurge is being done without the use of pesticides. Instead, MSUM continues to implement a control program that uses *Aphthona nigricutis*, the Black Dot Leafy Spurge Flea Beetle, to help control leafy spurge. As adults the beetles feed on the foliage, but do not severely harm the plant. However, the larvae live in the root system and feed on the roots, thus killing the plant. So far, after introduction the beetles are colonizing and results in weed control have been noted. This program not only saves money and labor, but is also extremely environmentally beneficial due to the close proximity to the Buffalo River and Buffalo State Park.

St. Cloud Technical College, St. Cloud

Building expansion and planting trees is reducing the amount of grass that needs to be cut. However, Green areas are left in tact to help prevent storm water runoff pollution.

St. Cloud State University, St. Cloud

SCSU has joined with the City of St. Cloud on many of their storm water control plan initiatives including community outreach/education and public meetings. Many initiatives involve landscaping, catch basin overflow and construction project runoff controls. Leaves, sand, silt, curb drains, and point outfalls are also being monitored and better controlled.

Alexandria Technical College, Alexandria

Landscaping of newly developed areas employ xeriscaping designs to reduce the use of gasoline-powered maintenance equipment, fertilizers and also to reduce fire hazards.

## 21. Materials Exchange

Minnesota State University, Moorhead

Used PC's are reallocated to other departments on campus to reduce the need for additional and/or new machines. Recently used PC's have also been made available to student organization and non-profit use. This program reduces the number of discarded computers on campus and saves budget money for many departments.

St. Cloud State University, St. Cloud

Glass, plastics, aluminum cans, steel, carpet, some building materials, Styrofoam, and cardboard are recycled at SCSU; also lard and cooking oil. A local farmer's hogs are fed leftover food.

Alexandria Technical College, Alexandria

Obsolete, but useable materials, are exchanged according to the procedures outline in Minn. Stat. §16C.23, subd. 6.

North Hennepin Community College

Used but serviceable computers and components have been given to other schools that expressed a need. Excess office equipment has been given to other schools and also turned in to State Materials Management division for use elsewhere.

## 22. Office Supplies

Bemidji State University (BSU)

The Purchasing Office holds office supply vendor fairs for university departments each year. The events provide an opportunity to make contacts and establish relationships with office supply vendors. Vendors who specialize in remanufactured toner cartridges are invited and

several departments on campus use their products. Used toner cartridges are either returned to the vendor or picked up by a vendor who remanufactures toner cartridges.

In addition, remanufactured printing cartridges are available from office supply vendors, recycled content copy and computer printer paper are supplied through Central Stores, and double sided copying is encouraged throughout campus.

#### Century College

The college purchases only energy-star rated computers and LCD panels. Computer settings are optimized to take advantage of energy-reducing capabilities.

#### Minnesota State University, Moorhead

Online resources have greatly reduced the amounts of office supplies used by MSUM.

University e-mail is provided and encouraged to reduce paper for memo's, announcements, and correspondence. Many educators have chosen to use online resources for classes including assignment and note postings, exams, syllabi, and announcements. The administration continues taking steps towards reduction of mass-produced items such as student bulletins, and liberal studies worksheets, billing and financial account information, and registration materials. These items have instead been made available to all students online. Last academic year, MSUM used approximately 36,828 reams of office paper. This amount included 36,043 reams of 30% post-consumer content paper, 520 reams of 100% post-consumer content paper, and 265 reams of virgin content paper.

#### St. Cloud State University, St. Cloud

SCSU extensively uses paper with 50%-recycled content and 30% post-consumer fiber content. (Whenever feasible, recycled color paper was used; and all white paper used in that copy shop was standard 30% minimum post-consumer content recycled paper included in our bulk campus supply counts.) Recycled photocopier toner cartridges are purchased. Ink and toner Cartridges are recycled. Desks, plants, pesticides, produce, chemicals, computers and cooking oil for bio-diesel were also recycled.

#### Alexandria Technical College, Alexandria

ATC utilizes both new and recycled office supplies including paper with a 50% recycled content and 30% post-consumer fiber content. Recycled toner cartridges are purchased. Ink and toner cartridges, as well as obsolete cell phones are recycled through our local school district as a fund raiser. ATC maintains paper recycling stations at all printers, copiers and mailrooms.

#### North Hennepin Community College

Our paper use for last year was: 7,500 reams of virgin bond paper, 100 reams of 20% post-consumer content, and 1,150 reams of 30% post-consumer content. See Paper Calculator attached to this report.

## 23. Oil, Oil Filters

#### Minnesota State University, Moorhead

All oil and oil filters currently used by MSUM are recycled through an approved vendor.

#### St. Cloud Technical College, St. Cloud

We let plastic oil containers drip out for at least 24 hours to drastically reduce oil entering the garbage. We do not use floor dry to stop oil absorbing material from entering the sewer. We have the students wipe up spilled oil with towels that have the oil washed out and reclaimed. Squeegees are used to cleanup larger spills and the oil is poured into the waste oil disposal

stream. Used oil is collected and recycled, we crush oil filters to remove oil from them and have the filter recycled.

St. Cloud State University, St. Cloud

SCSU oil filters are drained for over 24 hours to qualify as special hazardous waste. Motor oil is collected and recycled.

Alexandria Technical College, Alexandria

Oil and oil filters generated on our campus are drained, collected in approved containers and recycled through licensed recycling contractors.

North Hennepin Community College

North Hennepin Community College collects used oil and filters in approved containers, and recycles them through a local recycling vendor.

## 24. Paints, Coatings, Stripping

Bemidji State University

BSU maintenance procedures continue to reduce the use of organic solvent-based wood sealers. Water-based paints and finishes are used whenever possible.

Central Lakes College (CLC)

Over the last few years we have encouraged the faculty to use environmentally friendly products and chemicals that would not have to be treated as a hazardous waste when disposing of them. We have succeeded in going from a Small Quantity Generator to a Very Small Generator.

Century College

Physical Plant Operations as eliminated almost all of their aerosol products and continues to look for most environmental products available.

Minnesota State University, Moorhead

MSUM has developed a policy to purchase and use only chemicals with low or no VOC's while addressing the issue of indoor air quality and Multiple Chemical Sensitivities (MCS). Some of the products that MSUM uses are Glidden's Lifemaster 2000 paint and Buckeye cleaning products. Glidden's Lifemaster 2000 paint is a no-VOC line of paint and are virtually odorless. The Buckeye products currently used are biodegradable and one, Star Spray, is "Green Seal Approved".

St. Cloud Technical College, St. Cloud

The Instructors of our auto body class use lead free low Volatile Organic Compound (VOC) paints in the auto body lab.

Latex paints are used by our maintenance department whenever possible.

St. Cloud State University, St. Cloud

SCSU has converted almost all possible paint coatings to water based products to limit Volatile Organic Compounds (VOC's).

Alexandria Technical College, Alexandria

Low VOC, lead free, water based and latex based paints and finishes are purchased and used whenever possible. Licensed contractors are employed to strip and hydro-blast painted surfaces on campus.

North Hennepin Community College

Minimal painting is done on site by in-house staff. The small quantities of paint/coatings kept on site are used for touch-up purposes, and are discarded when all of product is used up. The services of a local contractor are used for area painting.

## 25. Parts Cleaning

### Hennepin Technical College (HTC)

Hennepin Technical College replaced three voc parts cleaners in its transportation program at our Eden Prairie Campus with three aqueous cleaners.

### Central Lakes College (CLC)

Over the last few years we have encouraged the faculty to use environmentally friendly products and chemicals that would not have to be treated as a hazardous waste when disposing of them. We have succeeded in going from a Small Quantity Generator to a Very Small Generator.

### Century College

Physical Plant Operations has eliminated almost all of their aerosol products and continues to look for most environmental products available.

### Minnesota State University, Moorhead

The university uses a citrus-based environmentally friendly parts washing fluid in the automotive mechanic shop.

### St. Cloud Technical College, St. Cloud

Our Automotive lab has an engine cleaning system that helps separate the oil cleaned from engines and transmission and capture it to prevent pollution.

Our Automotive department also has a contract with Safety-Kleen systems to provide and recycle parts cleaners.

Our Medium/Heavy truck department is also installing a more environmentally friendly parts cleaning system.

In the past year our Graphics Communications Department switched over to a less hazardous parts cleaning system serviced by Safety-Kleen to reduce hazardous waste.

### St. Cloud State University, St. Cloud

SCSU has experimented with more environmentally friendly brake cleaner and parts washer fluids in the auto repair shop. The Art Department and print shop use a solvent recycling service.

### Alexandria Technical College, Alexandria

The Diesel Mechanic, Marine and Small Engine and Truck Driving programs use a recycling parts washing system that uses a distillation filtration process to virtually eliminate hazardous waste generation. This system is managed by an outside contractor. This implementation has reduced our generation status from a Small Quantity Generator to a Very Small Quantity Generator, effectively reducing our waste generation fees paid annually to the Minnesota Pollution Control Agency.

## 26. Personal Care Products

### Minnesota State University, Moorhead

Through an Indoor Air Sensitivity Program, MSUM provides education to users of buildings deemed with having chemically sensitive occupants. This program informs occupants about the potential negative impacts of perfumed soaps, fragrances, air fresheners, residual cigarette smoke, etc.

## 27. Pesticides, Fertilizers

### Central Lakes College (CLC)

Over the last few years we have encouraged the faculty to use environmentally friendly products and chemicals that would not have to be treated as a hazardous waste when disposing of them. We have succeeded in going from a Small Quantity Generator to a Very Small Generator.

### Century College

Physical Plant Operations as eliminated almost all of their aerosol products and continues to look for most environmental products available.

### Minnesota State University, Moorhead

MSUM uses very few pesticides. Products that are used produce residues with a short active residence time in the environment. These products are measured accurately and are diluted according to manufacturers' instructions when in use.

At the Regional Science Center minimal landscaping practices are standard. Minimal mowing and use of very few chemicals helps preserve the natural prairie and wooded areas. Weed control with invasive leafy spurge is being done without the use of pesticides. Instead, MSUM has implemented a control program that uses *Aphthona nigriscutis*, the Black Dot Leafy Spurge Flea Beetle, to help control leafy spurge. These beetles while adults feed on the foliage, but do not severely harm the plant. The larvae however, live in the root system and feed on the roots, thus killing the plant. So far, after introduction, the beetles are colonizing and results in weed control have been noted. This program not only saves money and labor, but is also extremely environmentally beneficial due to the close proximity to the river.

To help prevent harmful spills and to ensure that any spills are taken care of properly, a Spill Response Program continues to be updated and implemented for the Physical Plant in conjunction with the university's storm water program. This deals specifically with pesticides and herbicides, as well as with other spills such as petroleum based substances. The program included education to staff as well as a centralized location for all spill response supplies.

### St. Cloud Technical College, St. Cloud

We try to use the minimum levels of pesticides and fertilizers necessary to maintain attractive grounds. Application staff is trained to properly and safely use these products.

### St. Cloud State University, St. Cloud

At SCSU, we try to use the minimum levels of pesticides and fertilizers necessary to maintain attractive grounds. Phosphate use concerns were addressed in MS4 actions and public community concern/outreach meetings. We use professional trained contractors to apply lawn pesticides and fertilizers.

### Alexandria Technical College, Alexandria

ATC uses pesticides only on an as needed basis and in very limited amounts. A phosphorous free, organic-based fertilizer is applied by a licensed applicator to ATC green spaces.

### North Hennepin Community College

All pesticide and fertilizer applications for pest control and lawn fertilizing and weed control are applied by licensed private contractors.

## 28. Policy Statement

### Minnesota State University, Moorhead

The Department of Environmental Health and Safety at MSUM is a strong advocate for protecting the environment. Pollution prevention is a component of our effort to deliver a safe work environment. Successful pollution prevention activities rely on the cooperation and

participation of the campus community to ensure a safe and healthy workplace. The EH&S Department is committed to the preservation, protection, and where possible, the enhancement of our environment in all matters of operation. This includes the goals of meeting and exceeding all applicable local, state, and federal requirements; as well as fostering responsible stewardship of all natural resources by personnel in the work place and in the community. We promote a proactive policy in environmental matters; one that anticipates and addresses problems before they become regulatory matters.

St. Cloud Technical College, St. Cloud

St. Cloud Technical College (SCTC) endeavors to comply in every way with all local, state and federal environmental regulations. SCTC recycles and reuses products whenever possible to help prevent pollution of the environment.

St. Cloud State University, St. Cloud

"The leadership of St. Cloud State University recognizes the strong environmental impact it has and is therefore committed to developing the means to reduce its use of toxic materials, release of toxic pollutants, and generation of hazardous wastes. The University strives to reduce, and, where possible, eliminate toxic materials, damage, and waste, while realizing that there are limits to its ability to move toward that goal. Maximum results will be achieved through the education of its employees and clientele, continued investigation and implementation of environmentally-friendly substitute products, and dedication to its recycling program."

Alexandria Technical College, Alexandria

Alexandria Technical College employs a continuous improvement process that promotes excellence in environmental management and stewardship towards energy efficiency by using the implementation of environmentally friendly and energy efficient products and waste stream reduction programs both internally and with our vendor partners.

North Hennepin Community College

North Hennepin Community College will strive to do its part in protecting our environment through conscientious use of supplies, materials, and equipment, recycling and reusing whenever possible in order to make full use of the valuable resources that went into making these products.

## 29. Printing

Bemidji State University (BSU)

The Purchasing Office holds office supply vendor fairs for university departments each year. The events provide an opportunity to make contacts and establish relationships with office supply vendors. Vendors who specialize in remanufactured toner cartridges are invited and several departments on campus use their products. Used toner cartridges are either returned to the vendor or picked up by a vendor who remanufactures toner cartridges.

In addition, remanufactured printing cartridges are available from office supply vendors, recycled content copy and computer printer paper are supplied through Central Stores, and double sided copying is encouraged throughout campus.

Minnesota State University, Moorhead

Campus Printing Services continues using vegetable-based inks and paper products containing a high percentage of recycled material. Press/roller washes and fountain solutions that are water based and low in VOC's are currently used. Printing Services is also using a safer plating chemistry and recycles their aluminum plates, litho film and reclaimed silver. The

student newspaper, which is printed off-campus, also uses soy inks and is printed on 20% post consumer paper.

St. Cloud State University, St. Cloud

SCSU exceeds all requirements for use of soy-based inks in materials that are printed either in its campus print shop or those which are processed by a private company. Plastic film is recycled for silver recovery. Recycled paper products are used in the majority of all printing requests. SCSU Printing Services also recycles books, directories and newsprint.

Alexandria Technical College, Alexandria

Our Reprographics Department participates in the Xerox “Green Alliance Program” to recycle used toner cartridges. Where possible, recycled paper products are used for copying and printing documents. Near each printing and copying station is a recycling center for spent paper products. Cardboard boxes are collected, broken down and recycled through our local recycling center.

North Hennepin Community College

While some of our copying is performed on departmental photocopy machines with recycling bins located near by for copy errors disposal. Our Duplicating section run most of the tests, quizzes, handouts, etc. needed on campus using larger photo copying machines that are more cost efficient. Whenever possible copying error sheets are recycled as note pads. Large printing jobs are sent off-site to commercial vendors.

### 30. Procurement

Bemidji State University (BSU)

BSU continues to support and encourage campus departments to incorporate waste reduction and pollution prevention into their daily operations. The Purchasing Office holds office supply vendor fairs for university departments each year. The events provide an opportunity to make contacts and establish relationships with office supply vendors.

Minnesota State University, Moorhead

As a state agency, MSUM has a procurement department in conjunction with the State of Minnesota Materials Management Division. We also utilize Central Stores, which is an expansion of state surplus services. The Physical Plant has centralized all of its chemicals and supplies. This has created less volume in storage and enables university staff to use improved products that are constantly coming onto the market. University personnel have been educated about purchasing materials that are highly environmentally compatible. Pollution risk and hazardous waste disposal costs are emphasized. All departments have also been encouraged to purchase on a ‘need only’ basis to reduce stock and storage time.

St. Cloud State University, St. Cloud

SCSU uses toilet paper and towels of 100% total recycled fiber content and up to 20% post consumer fiber content. Some carpet fibers are recycled.

Alexandria Technical College, Alexandria

Alexandria Technical College employs a continuous improvement process that promotes excellence in environmental management and stewardship towards energy efficiency when purchasing products. ATC strives to locate suitable environmentally friendly and energy efficient products both for use internally and also for use by our contractor partners.

North Hennepin Community College

Several items of concern are considered when making purchasing decisions here on campus. Such things as the life expectance of the product, shelf life for chemicals, number of uses it can

be put to, toxicity of chemical used in expendable product, versatility of the product, and any special disposal requirement that may be required.

### 31. Remanufactured Parts

#### Bemidji State University (BSU)

The maintenance and purchasing departments are continuing to work together to limit the need to purchase new electric motors and plumbing and steam valves by having worn and defective units reconditioned or rebuilt for reuse whenever possible.

#### Minnesota State University, Moorhead

MSUM currently uses remanufactured printer cartridges and Xerox copier dry ink and toner cartridges.

#### St. Cloud State University, St. Cloud

SCSU uses remanufactured photocopier cartridges.

#### Alexandria Technical College, Alexandria

The purchase and use of refurbished office furniture is encouraged. ATC coordinates office furniture purchases through a contractor that offers this type of office furniture.

Remanufactured parts are routinely used for the maintenance and repair of non-leased vehicles and equipment. Using remanufactured parts cost effectively prolongs the life of these units.

#### North Hennepin Community College

All departments of this college are encouraged to return fax machine ink cartridges to the manufacturer for reuse. Ink cartridges from our larger machines are sent in for re-inking/re-use in our Duplicating section.

The purchase of paper products containing some amount of recycled material is strongly encouraged.

### 32. Tanks

#### Minnesota State University, Moorhead

MSUM has two 20,000 gallon underground tanks classified as above ground elevated tanks. These tanks are equipped with continuous slab vaults, alarms, overfill protection, leak detection, and are inspected weekly. The Physical Plant also maintains a 1,000 gallon gasoline tank, and a 560 gallon diesel tank. These are above-ground, double walled tanks equipped with overfill protection, etc.

A vital part in managing these tanks is the emergency spill response procedures. MSUM currently has updated procedures in place and training provided to respond towards spills, overfill, puncture, and other such emergencies.

#### St. Cloud State University, St. Cloud

New storage tanks with underground monitors were installed for our campus boilers.

#### North Hennepin Community College

There are two fuel tanks located on this campus. A 10,000-gallon underground storage tank is used for #2 fuel oil for our boiler plant, and 285 gallon above ground tank is used for Diesel fuel for our lawn equipment. The monitoring and secondary containment equipment on these tanks is checked frequently to insure leaks, spills, or contamination does not occur. An Emergency Response Plans is maintained on site for any future contingency.

### 33. Technical Support

Minnesota State University, Moorhead

MSUM recently completed a professional energy audit conducted by the Energy Services Group. Routine assessments are performed internally at MSUM. The involvement of faculty, students, and staff on campus lends a high level of expertise to this assessment. The Sustainable Campus Initiative Committee completed a campus-wide environmental assessment through the National Wildlife Federation's Campus Ecology Program.

St. Cloud Technical College, St. Cloud

Technical support is provided through MPCA, DOER Safety and Industrial Hygiene Unit, University of Minnesota Chemical Safety Day Program and other agencies as needed.

St. Cloud State University, St. Cloud

St. Cloud State University - (one of the most highly accredited colleges in the nation) It has also fostered close support to the contractors and maintenance & custodial employees, supervisors, and managers most at risk on campus and most involved in pollution prevention projects and efforts. This has also aided substantial reductions in costs associated with Hazardous Waste and battery recycling.

Alexandria Technical College, Alexandria

Technical support is provided through OSHA, RECRA, MPCA and private consultants.

North Hennepin Community College

Often our first contact for technical support is our contracted specialist, McNeil Environmental Services, employed by this college in a consultant capacity on environmental and other safety issues.

### 34. Tires

Minnesota State University, Moorhead

All used tires are replaced and recycled at an off campus vendor.

St. Cloud Technical College, St. Cloud

We dispose of old tires without charge to prevent pollution. All tires are recycled through local vendors.

St. Cloud State University, St. Cloud

About 357 tires are recycled each year at SCSU at a cost of about \$1.25 each. They are ground up and become components in other products.

Alexandria Technical College, Alexandria

All tires are recycled through a local vendor at a cost to ATC.

North Hennepin Community College

When possible old tires are turned in for recycling at time of new purchases. All other tires are recycled through local vendors.

### 35. Water Treatment and Conservation

Bemidji State University (BSU)

Water conservation devices installed in 2002 continue to reduce water consumption by approximately three million gallons per year as compared to pre-installation usage. That represented a savings of approximately \$25,000 in FY2007. During FY 2007 a new dishwashing machine was installed in the campus food service building. The new equipment recycles water between washing operations and also pulps solid wastes and removes them

before being discharged to the sewer. Both these features significantly reduce water consumption as compared to the equipment it replaced.

Minnesota State University, Moorhead

A computer managed watering system is utilized on the athletic fields, in addition to the systems installed on the campus mall area and surrounding landscaped areas. This system initiates watering at night, thereby reducing water evaporation. A storm water detention pond and underground drainage system is managed under the university's storm water pollution prevention program. This system significantly reduces the amount of contaminated run-off water directly flowing into the city's storm sewer and ultimately into the Red River of the North. An energy audit was recently conducted by Energy Services Group with a focus on a water usage assessment.

St. Cloud State University, St. Cloud

This past year progress continued at SCSU on replacing Systems to reduce water use.

Alexandria Technical College, Alexandria

Alexandria Technical College has installed automatic flushing units on low consumption toilets and urinals and low flow faucets. Our campus provides a reverse osmosis water source for its employees in the Staff Lounge. Waste water is treated through our municipal water treatment plant.

North Hennepin Community College

Plumbing fixtures and supplies with lower gallon per minute ratings are used at this facility whenever possible, depending upon the application requirements.

Chemically treated water systems like our boiler water, and cooling tower chemical treatment systems, as well as closed loop heating and cooling systems for this college are properly isolated from potable water supply by approved Antisiphon devices (RPZ).

## 36. Other

Bemidji State University (BSU)

BSU continues as a member of the National Wildlife Campus Ecology program, initially joining in the spring of 2006.

BSU has established an endowment fund through the BSU Foundation that allows individuals and/or groups donating money to the foundation to designate their contribution to be used for support of environmentally sustainable programs. The fund will be used for student scholarships and to support projects related to environmental sustainability at Bemidji State University. Thanks to a major contribution from Otter Tail Power Company, the fund became fully endowed in 2007 with over \$10,000 in funds.

Minnesota State University, Moorhead

*Storm Water Management*

MSUM has developed a storm water pollution prevention program (SWPPP) in order to minimize the harmful effects of storm water runoff and its potential to affect the water quality of the Red River of the North. The SWPPP includes public outreach, education, and involvement; controlling illicit discharges; maintaining clean construction sites; and pollution prevention and good housekeeping measures. Some of the year's activities are listed in the following paragraphs.

Students helped post storm water informational pamphlets, brochures, and other educational materials at several public locations throughout the university campus. A student intern created brochures specific to the university's storm water program, including "hotline" numbers to call

both the university and the City of Moorhead so community members can report concerns of potential storm water pollution. The Department of Environmental Health & Safety's storm water website, featuring not only the university's programs and info, but also local, state, and federal storm water information, continues to be further developed and updated by students. Physical Plant staff attended storm water pollution prevention training sessions, which also included table top discussions on various spill scenarios and response procedures. In cooperation with the Sustainable Campus Initiative Committee, featured speakers included storm water education at public lectures during Earth Week. In conjunction with Earth Week, MSUM had its annual campus cleanup event involving students, faculty, staff, and administrators helping clean lawns, parking lots, landscaped areas, storm drains, boulevards, etc. promoting the event as a means to also minimize potential storm water pollution from runoff. University community members attended public informational sessions involving storm water educational presentations, brochures, pamphlets, and open discussions. All campus parking lots and roadway storm drains were stenciled by students educating the general community warning not to dump anything into the drains, as it may eventually drain into the Red River. Students put up posters around campus educating university community members to monitor parking lots & grounds and report potential sources of storm water contaminants by calling a "hotline" phone number. Students working with the Dept. of Environmental Health & Safety were trained on storm water drain inspections and took part in assisting the Physical Plant with the process.

Physical Plant employees responsible for university grounds received training on storm water impacts from lawn care, landscaping and pest control applications. Procedures are in place for vehicle and lawn equipment washing requiring it be accomplished within interior wash bays. Procedures are in place involving regular parking lot and sidewalk cleaning with machine sweeping and vacuuming removing surface sediment and debris. MSUM has in place an on-going storm drain inspection and cleaning program that includes storm drain grates, detention pond, pump station, catch basins, and other appurtenances. Evaluation in the use of alternative products, primarily pesticides and herbicides, continues to be investigated to minimize contaminated storm water. MSUM primarily utilizes sand as an alternative to salt when addressing icy sidewalks and parking lots, minimizing pollutant runoff, and in addition, the sand is swept up each spring and recycled in use. Hazardous material storage areas are inspected on a regular basis. Hazardous material storage areas are enclosed, utilize spill prevention, and are provided with secondary containment systems and spill response. This past year an Emergency Spill Response Program was further developed that included updated training with Physical Plant staff in providing better preparation towards addressing hazardous material spill response. Exterior signs are placed in problem areas reminding neighboring pet owners to collect and place in a proper receptacle their animal's fecal waste. A vehicle maintenance program is in place that reminds drivers of both fleet and service vehicles to regularly inspect their vehicles and report any maintenance concerns to the Physical Plant.

#### St. Cloud Technical College, St. Cloud

We allow and encourage individuals and students to drop off waste oil, oil filters, batteries, tires so SCTC can recycle them also to help the environment. We charge everyone having cars repaired in our vehicle labs a small waste disposal fee to off set these costs.

The SCTC library makes use of scrap paper that has only been printed on one side by cutting it up and turning it into note paper for reuse by staff and student workers. We make sure to shred any paper that might have confidential information.

#### St. Cloud State University, St. Cloud

SCSU continues recycled glassware from the Biology stockroom due to the ongoing initiative of a very supportive faculty member.

North Hennepin Community College

**Biology Laboratory Stain Waste** - Stains from the biology labs are no longer sewered, approximately 25 gallons per year are collected and sent for fuel blending/energy recovery through the Minnesota State Hazardous Waste contract.

**Part 5: Matrix of College/university and Categories**  
**Hennepin Technical College (HTC)**

<b>Activity Type</b>	<b>Ongoing</b>	<b>FY 2007</b>	<b>Planned</b>	<b>Quantifiable Data Included?</b>
1. Absorbents	X			
2. Adhesives	X			
3. Air Quality, CFCs	X			
4. Antifreeze	X			
5. Audits			X	
6. Automotive Fuels	X			
7. Automotive Maintenance	X			
8. Batteries	X			
9. Cleaning Supplies	X	X	X	
10. Commuting and Transportation	X			
11. Education, Communications and Training	X	X	X	
12. Electronics	X	X	X	
13. Energy –Use	X	X	X	
14. Energy – Production				
15. Groundwater Wells	X			
16. Heavy Metals	X			
17. HVAC, Indoor Air Quality	X	X		
18. Ice Control, Sanding	X	X	X	
19. Laboratory				
20. Landscaping			X	
21. Materials Exchange				
22. Office Supplies	X		X	
23. Oil, Oil Filters,	X			
24. Paints, Coatings, Stripping	X			
25. Parts Cleaning	X	X	X	
26. Personal Care Products				
27. Pesticides, Fertilizers	X			
28. Policy Statement				
29. Printing	X			
30. Procurement	X			
31. Remanufactured Parts	X			
32. Tanks	X			
33. Technical Support				
34. Tires	X			
35. Water Treatment and Conservation	X	X		
36. Other				

Bemidji State University

<b>Activity Type</b>	<b>Ongoing</b>	<b>FY 2007</b>	<b>Planned</b>	<b>Quantifiable Data Included?</b>
1. Absorbents				
2. Adhesives				
3. Air Quality, CFCs				
4. Antifreeze				
5. Audits				
6. Automotive Fuels			X	
7. Automotive Maintenance				
8. Batteries				
9. Cleaning Supplies	X			
10. Commuting and Transportation	X			
11. Education, Communications and Training	X			
12. Electronics		X		
13. Energy – Lighting	X	X	X	Yes
14. Energy – Production			X	Yes
15. Groundwater Wells				
16. Heavy Metals				
17. HVAC, Indoor Air Quality				
18. Ice Control, Sanding				
19. Laboratory	X			
20. Landscaping	X			
21. Materials Exchange	X			
22. Office Supplies	X			
23. Oil, Oil Filters,				
24. Paints, Coatings, Stripping	X			
25. Parts Cleaning				
26. Personal Care Products				
27. Pesticides, Fertilizers				
28. Policy Statement	X			
29. Printing	X			
30. Procurement				
31. Remanufactured Parts	X			
32. Tanks				
33. Technical Support				
34. Tires				
35. Water Treatment and Conservation	X			
36. Other				

Central Lakes College (CLC)

<b>Activity Type</b>	<b>Ongoing</b>	<b>FY 2007</b>	<b>Planned</b>	<b>Quantifiable Data Included?</b>
1. Absorbents				
2. Adhesives				
3. Air Quality, CFCs				
4. Antifreeze	X			
5. Audits				
6. Automotive Fuels	X			
7. Automotive Maintenance				
8. Batteries	X			
9. Cleaning Supplies	X			
10. Commuting and Transportation	X			
11. Education, Communications and Training	X			
12. Electronics	X			
13. Energy -Use	X		Fall 06	
14. Energy – Production				
15. Groundwater Wells	X			
16. Heavy Metals				
17. HVAC, Indoor Air Quality	X			
18. Ice Control, Sanding				
19. Laboratory				
20. Landscaping	X			
21. Materials Exchange				
22. Office Supplies				
23. Oil, Oil Filters,	X			
24. Paints, Coatings, Stripping				
25. Parts Cleaning	X			
26. Personal Care Products				
27. Pesticides, Fertilizers				
28. Policy Statement				
29. Printing				
30. Procurement				
31. Remanufactured Parts				
32. Tanks				
33. Technical Support				
34. Tires	X			
35. Water Treatment and Conservation				
36. Other				

Century College

Activity Type	Ongoing	FY 2007	Planned	Quantifiable Data Included?
1. Absorbents	X			No
2. Adhesives	x			no
3. Air Quality, CFCs	x			no
4. Antifreeze	x			no
5. Audits	x	x		no
6. Automotive Fuels	x			no
7. Automotive Maintenance	x			no
8. Batteries	x			no
9. Cleaning Supplies	x			no
10. Commuting and Transportation	x	x		no
11. Education, Communications and Training	x			no
12. Electronics	x	x		no
13. Energy –Use	x	x		no
14. Energy – Production				
15. Groundwater Wells				
16. Heavy Metals	x	x		no
17. HVAC, Indoor Air Quality	x	x		no
18. Ice Control, Sanding	x			
19. Laboratory	x	x		no
20. Landscaping	x			no
21. Materials Exchange				
22. Office Supplies	x			No
23. Oil, Oil Filters,	x			no
24. Paints, Coatings, Stripping	x			no
25. Parts Cleaning	x			no
26. Personal Care Products	x			no
27. Pesticides, Fertilizers				
28. Policy Statement				
29. Printing	x	x		no
30. Procurement	x			no
31. Remanufactured Parts				
32. Tanks	x			no
33. Technical Support				
34. Tires				
35. Water Treatment and Conservation				
36. Other				

Alexandria Technical College, Alexandria

<b>Activity Type</b>	<b>Ongoing</b>	<b>FY 2008</b>	<b>Planned</b>	<b>Quantifiable Data Included?</b>
1. Absorbents	√	√		
2. Adhesives	√	√		
3. Air Quality, CFCs	√	√	√	
4. Antifreeze	√	√		
5. Audits	√	√	√	
6. Automotive Fuels	√	√	√	
7. Automotive Maintenance	√	√		
8. Batteries	√	√		
9. Cleaning Supplies	√	√		
10. Commuting and Transportation				
11. Education, Communications and Training	√	√	√	
12. Electronics	√	√		
13. Energy -Use	√	√	√	
14. Energy – Production				
15. Groundwater Wells				
16. Heavy Metals	√	√		
17. HVAC, Indoor Air Quality	√	√	√	
18. Ice Control, Sanding	√	√		
19. Laboratory	√	√		
20. Landscaping	√	√	√	
21. Materials Exchange	√	√		
22. Office Supplies	√	√		
23. Oil, Oil Filters,	√	√		
24. Paints, Coatings, Stripping	√	√		
25. Parts Cleaning	√	√		
26. Personal Care Products				
27. Pesticides, Fertilizers	√	√		
28. Policy Statement		√		
29. Printing	√	√		
30. Procurement	√	√		
31. Remanufactured Parts	√	√		
32. Tanks				
33. Technical Support	√	√		
34. Tires	√	√		
35. Water Treatment and Conservation	√	√		
36. Other				

Minneapolis Community and Technical College

<b>Activity Type</b>	<b>Ongoing</b>	<b>FY 2005</b>	<b>Planned</b>	<b>Quantifiable Data Included?</b>
1. Absorbents				
2. Adhesives				
3. Air Quality, CFCs				
4. Antifreeze				
5. Audits				
6. Automotive Fuels				
7. Automotive Maintenance				
8. Batteries				
9. Cleaning Supplies				
10. Commuting and Transportation	05, 06 & 07			
11. Education, Communications and Training				
12. Electronics				
13. Energy -Use				
14. Energy – Production				
15. Groundwater Wells				
16. Heavy Metals				
17. HVAC, Indoor Air Quality				
18. Ice Control, Sanding				
19. Laboratory				
20. Landscaping				
21. Materials Exchange				
22. Office Supplies				
23. Oil, Oil Filters,				
24. Paints, Coatings, Stripping				
25. Parts Cleaning				
26. Personal Care Products				
27. Pesticides, Fertilizers				
28. Policy Statement				
29. Printing				
30. Procurement	05, 06 & 07			
31. Remanufactured Parts				
32. Tanks				
33. Technical Support				
34. Tires				
35. Water Treatment and Conservation				
36. Other				