

MNSCU Combined State Pollution Prevention Summary Report for Fiscal Year 2005

Part 1: College/university Descriptions

Alexandria Technical College, Alexandria, MN

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.

Northwest Technical College, Bemidji, MN

Northwest Technical College has approx. 70 Staff and Faculty that work at two location sites with over 1000 learners. In 2004 NTC became an independent college and is part of an alliance with Bemidji State University. NTC began as a Vocational Technical Institute in 1965 with 2 programs offerings that have expanded to 45 programs in business, health, industrial arts, and technology. The NTC main campus of is located on 26 acres with a one story main building of approx. 90,000 s.f. and two annex buildings, at 905 Grant Ave. S.E. in Bemidji. Ground breaking for a new 12,507 s.f. Allied Health Addition on the N.E. end is slated for the summer of 2005 with completion in 2006, followed by a remodel of 10,500 s.f. of vacated space. Project plans are in place for a new 27,500 s.f., two stories, Technology Center on the N.W. end of the main building in 2007. The second site is a satellite location on the Red Lake Indian Reservation located at the New Beginnings building in Redby, MN. Northwest Technical College does not operate the facility in Redby so I am only reporting for the Main Campus location. We have not received P2 training in the past year.

Pine Technical College, Pine City, MN

Pine Technical College (PTC), located in Pine City, is a component of the MnSCU system and employs 81 faculty and staff. It owns and operates only one staffed location at the main campus in Pine City. This report covers that location and therefore the college as a whole. The staff at PTC has not received any P2 training this year.

St. Cloud Technical College, St. Cloud, MN

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. In the past fiscal year employees who use chemicals have been trained on procedures to follow if a chemical is spilled to prevent release into the environment.

Riverland Community College, Albert Lea and Austin, MN

Riverland Community College has four campuses in three cities located in southern Minnesota- Albert Lea, Austin, and Owatonna. This report is for all four sites. The college employees approximately 300 full-time and part-time faculty and staff. As far as I know we do not have any staff that has had any formal pollution prevention training.

Ridgewater College

Ridgewater College has approximately 340 full-time, part-time, and seasonal employees at the Willmar and Hutchinson Campuses. Ridgewater College has a campus in Willmar MN and two locations in Hutchinson MN. This report represents the efforts of the College as a whole. P2 training has been provided for the grounds crew staff involved in hazardous waste monitoring and disposal.

Dakota County Technical College

Approximately 250 staff and faculty members work at Dakota County Technical College. We have 4 sites. We are reporting as a whole. None of our staff has received P2 training.

Minnesota West Community and Technical College

Minnesota West has approximately 419 staff and faculty working at six campuses and sites. This summary report includes information from all six locations. My staff has not received P2 training this year.

Minnesota State Community and Technical College, Wadena Campus

Minnesota State Community and Technical College, Wadena Campus has approximately 70 staff members. We have one facility that is staffed 100% at all times and we have two training locations that are staffed about 65% of the time.

We are reporting specifically for the Wadena Campus of MSCTC. Staff has not received any training in P2 during FY05.

Minneapolis Community & Technical College (MCTC)

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 Hazardous Waste Training and Laboratory Safety Training.

St. Cloud State University (SCSU)

St. Cloud State University (SCSU) employs full- and part-time approximately 1500 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. During the past few years the services of an outside consulting firm, MacNeil Environmental Inc., have been expanded to better address this training issue. They now provide some MS4 information/training focusing on education about storm water pollution prevention on campus and in cooperation with the City of St. Cloud.

Minnesota State University Moorhead

Minnesota State University Moorhead (MSUM) currently employs approximately 325 full time faculty, 150 part time faculty, and 320 staff members. These employees serve an enrollment of over 7,600 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 ongoing throughout the year for faculty, staff and students with respect to pollution prevention, waste reduction and recycling.

Northland Community and Technical College

Northland Community and Technical College has approximately 400 full-time and part-time staff. There are three staffed facility locations – Thief River Falls Campus, Airport Campus in Thief River Falls, and the East Grand Forks Campus. This report contains information for the college for all three facility locations. NCTC employees have not received P2 training during the past year.

Inver Hills Community College

Inver Hills Community College Staffs approximately 300+ employees. The campus has only one facility location and this report is for IHCC specifically. IHCC employees have received P2 training facilitated by McNeil Environmental Inc.

Metropolitan State University

Metropolitan State University has 375 FTE staff and 575 community faculty. We have 4 locations. Three locations are leased space. This report covers location owned by Metropolitan State. We have not had any staff members receive P2 training.

Mesabi Range Community & Technical College

144 employees work at Mesabi Range College. The College has four staffed facility locations. This report is submitted for the College as a whole. The College staff has received no P2 Training.

Central Lakes College, Brainerd and Staples.

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. As far as I know we do not have any staff that has had any formal pollution prevention training.

Minnesota State Community & Technical College, Fergus Falls Campus

MSCTC is a four campus community and technical college. There is also a service center at a separate location. College wide there are approximately 375 employees. This report pertains to the Fergus Falls campus.

Vermilion Community College

Vermilion Community College employs approximately 100 faculty and staff at a single college campus location in Ely, MN. In addition to the main campus facility, the college also has staff/faculty at a Tech North Prep Center location in downtown Ely and an Outdoor Learning Center facility on the shores of Fall Lake east of Ely. This report encompasses all college locations. VCC staff did not receive P2 training during the past year.

Minnesota State Community & Technical College, Moorhead Campus

Approximately how many staff work at your agency? Approximately 120 faculty and staff work at the Moorhead Campus

How many staffed facility locations does your agency have? Two

Are you reporting for the agency as a whole or for a specific facility location? Specific location
Has your staff received any P2 training during the past year? No

Part 2: Policy and Regulatory Activities

Alexandria Technical College, Alexandria, MN

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.

Northwest Technical College, Bemidji, MN

Northwest Technical College does not have a written policy or regulations that dictate or keep track of pollution control. Our desire for energy efficiency has a direct impact on pollution reduction.

We do have an understanding in our Information Technologies (IT) Department that all equipment that is purchased is the most energy efficient available and energy star rated. We do encourage the use of electronics for communication in the forms of e-mail, teleconferencing, interactive television, faxing and hosting meetings on campus to control vehicle usage. The Plant Operations (PO) has an unwritten policy of using only low VOC water based paints, floor seals, sealants and caulks for maintenance and repair. PO also uses only energy star rated replacement motors. PO also makes sure that all renovations and building upgrades, remodels and additions are energy efficient to save operating costs and at the same time reduce our use of energy and pollution generation. The Campus recently entered into an energy management and reduction services agreement with Energy Services Group (ESG) that will guarantee a reduction in our energy consumption and pollution generation. A roofing project that completely replaces the roof with new insulation and a MnSCU Standard covering was started this summer. It was initiated with heat loss and infrared scans that showed considerable heat loss. The entire heating system was upgraded this winter with new high efficiency boilers, and a new digital HVAC temperature control system. An entire building lighting and electrical retrofit was done this past year that includes new energy efficient main service board, lighting, occupancy controls, vending machine controls.

Pine Technical College, Pine City, MN

PTC, as a college, is not a regulatory agency and therefore has no clients that it regulates. It serves students in the East Central Minnesota region. To extend its pollution prevention efforts to those we serve, PTC has adopted electronic communications to replace its traditional student mail system and its internal communications system for faculty and staff.

St. Cloud Technical College, St. Cloud, MN

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.

Riverland Community College, Albert Lea and Austin, MN

Currently Riverland 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.

Whenever possible we purchase energy-efficient appliances to reduce state-energy uses at our college. Four heavy duty extra large clothes washers were bought for two of our departments that have a 1.77 mef.

All lighting fixtures have been retrofitted with energy-efficient ballasts and bulbs resulting in a rebate from the Austin Utilities. We have an agreement with our local utilities to curtail our electricity use by 163 kW's 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.

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 succeed in going from a Small Quantity Generator to a Very Small Generator.

Ridgewater College

It is general practice at Ridgewater College to encourage the use of electronic instruction techniques such as interactive television and video conferencing for specific classes taught at the same time while reducing the travel of instructors and students between campuses. This practice extends to some college wide functions. An example can be offered in the Master Facility Plan process in which all participating employee groups attend meetings at the campus of their choice and using video conferencing, join the group at the other campus for discussion of facility improvements.

It is also the practice at Ridgewater Collage to adhere to any and all State of Minnesota initiatives that reduce or eliminate pollution. For example, Ridgewater College uses the State of Minnesota procurement and requisition software that reduces the use of printers and copy machines, reducing paper use and energy consumption.

Dakota County Technical College

Dakota County Technical College is committed to excellence and leadership in protecting the environment. In keeping with the policy, our objective is to reduce our energy consumption, and to promote clean air landscaping. By successfully preventing pollution and conserving energy at its source, we can achieve cost savings, increase operational efficiencies, and improve the environment. Dakota County Technical College's environmental guidelines include the following: Environmental protection is everyone's responsibility. It is valued and displays commitment to DCTC. We will continue to pursue energy conservation and efficiency improvements in our operations, and promote conservation practices and investments in energy-efficient technologies. DCTC will encourage clean air landscaping and strive to reduce the mow-able square footage of turf and replace current mowers with the most fuel-efficient mowers available. DCTC seeks to demonstrate its corporative citizenship by adhering to environmental regulations. We promote cooperation and coordination between higher education, government, and industry, toward the shared goal of reducing waste at its source and recycling in an environmentally sound manner.

Minnesota West Community and Technical College

Minnesota West continues a long tradition of pollution prevention activity. We seek continuously to improve procurement practices and we utilize several forms of electronic communications and video telecommunications.

Minnesota State Community and Technical College, Wadena Campus

Our Student Senate and Staff have adopted a 3-mile stretch of highway along U.S. Hwy 29 between the towns of Deer Creek and Wadena. FY 05 is our first year of highway adoption and we will continue cleaning it 3 times yearly.

We strive to save trees on a regular basis through the means of e-mail rather than paper documents. Teleconferencing is used on a regular basis rather than traveling back and forth between campuses.

Minneapolis Community & Technical College (MCTC)

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.

St. Cloud State University (SCSU)

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

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, 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, and properly dispose of discarded materials. MSUM currently reduces paper volume by using campus e-mail, promoting teleconferencing, 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.

Northland Community and Technical College

NCTC does not have any formal written policies related to pollution prevention. We practice several methods of prevention. We frequently use various forms of telecommunications, such as teleconferencing, videoconferencing, and ITV with our students and external customers.

Metropolitan State University

Our policy is to operate “green” facilities. This is currently accomplished by using electronic work orders in both facilities and IT departments to reduce paper consumption, installing only energy efficient equipment that would meet Xcel Energy rebate requirements, complete campus building recommissioning to maximize operating efficiency, monitoring power factor for maximum efficiency, lighting controls in two of four main buildings, energy efficient lighting, use of environmentally friendly products (low VOC paint and Citrus degreaser/cleaner), and installation of approximately one acre “no maintenance” landscaping. Our campus master plan includes more low maintenance landscaping in courtyard area.

Metropolitan State is committed to energy reduction through purchase of high efficiency equipment, employing energy conserving strategy in state owned buildings, procurement of products that minimize potential for air pollution, and landscaping that maximizes native plants, minimizes maintenance, and reduces need for gas powered equipment.

Mesabi Range Community & Technical College

The College is in the planning process of developing policy and regulatory activities to extend the College’s Pollution Prevention efforts. The College does use electronic communications with clients and does use teleconferencing when appropriate.

Central Lakes College, Brainerd and Staples.

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.

Minnesota State Community & Technical College, Fergus Falls Campus

By culture and practice the college’s procurement processes have long considered efficiency and pollution sensitivity.

A conscious effort to reduce travel between campuses for meetings began this past year and will continue. Acquisition of poly com technology has provided an alternate meeting venue, and its use is steadily increasing.

A fuel vendor in Fergus Falls has, within the past few months, begun to dispense E-85 fuel. We have begun a renewed effort to educate employees to refuel with this grade.

Vermilion Community College

Over the past two years, VCC has shifted to email as the preferred communication method with both students and staff/faculty. Students are notified at the beginning of each academic year that email will be the primary means of communication from the college. Student mailboxes previously located in the cafeteria were removed last year in favor of electronic communication. VCC also houses three Interactive Television studios on campus and one at the off-campus Technology Center. These studios are used for delivery of academic courses as well as by the public for teleconferencing. In addition, the Tech Center provides Internet and email access to the general public and those vacationing in the Ely area.

Minnesota State Community & Technical College, Moorhead Campus

No college policies or regulatory activities that incorporate pollution prevention are in effect. The Moorhead Campus faculty and staff use electronic communications with students whenever possible. The college encourages teleconferencing and ITV whenever possible to reduce travel.

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

Alexandria Technical College, Alexandria, MN

Alexandria Technical College currently participates in the State vehicle lease program. Our current fleet of leased vehicles is being upgraded to include more fuel efficient models of vehicles. 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. Two 100 gallon water heaters on the Main Campus have been replaced with high efficiency condensate models with a 98% energy star rating.

Energy conservation strategies have been a major focus for ATC's Facilities and Maintenance Department. Our continuous energy conservation program includes winterizing all overhead 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 1/8th 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.

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. One program within our campus has converted from a petroleum based parts cleaner to an environmentally friendly orange based cleaner in their parts washers.

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

Pine Technical College, Pine City, MN

As the pollution prevention efforts either were not possible or do not fit the parameters of emissions reductions worksheet, that submittal is not included in this report.

St. Cloud Technical College, St. Cloud, MN

- a. We lease our vehicles from Travel Management Division, what they purchase is what we use.
- b. We refuel our leased vehicles with the fuel recommended by Travel Management Division for the vehicle we lease.
- c. While staff is on college business carpooling is encouraged and practiced.
- d. A consulting firm accomplished an Environmental/Energy Audit at SCTC and the conclusion was the college is very efficient when dealing with pollution prevention and using high efficiency equipment.

- e. We have switched to a 4 day, 10 hour a day workweek to save energy during the summer hours. We have shortened the custodial staff work shifts so the building can be shutdown earlier. 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 saves electricity.
- f. We continually review our products and use the most environmentally friendly products available in our labs, classrooms and maintenance area.
- g. Planting of trees and building expansion have reduced the need for use of gasoline powered equipment, less mowing.
- h. N/A

Riverland Community College, Albert Lea and Austin, MN

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, 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.

Our supplier will start selling ULSD (under 15 parts of sulfur per million) next Spring at which time we will switch to that. These fuels do not work well in real cold weather, so when weather permits we will use the cleaner fuel.

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) In Albert Lea we lease 25 acres to an area farmer for crops. In Owatonna, 4 acres are prairie grasses that require very little mowing or care.

Ridgewater College

The activities listed in the executive order are:

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

Ridgewater College currently leases fleet vehicles. No new leases have been necessary in the last 12 months. However, as additional or replacement vehicles are needed, Ridgewater will request models that are fuel efficient, and/or burn E 85 alternatives.

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

As vehicles are leased with clean fuel recommendations, all college employees will be required to refuel with clean options as needed or recommended for the vehicle.

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

Ridgewater College does discourage single occupancy commuting whenever possible.

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

Ridgewater College will continue to review energy efficient options in all purchasing decisions. While very little residential equipment is purchased, all attention is given to locating and researching energy star options as they apply to our needs.

Ridgewater College is undergoing balancing activities on the Willmar campus mechanical systems in hope to reduce energy use by efficient mechanical operations. Results will not be available for quantification until year end FY2006.

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

Ridgewater College employees have been instructed to turn lights off as they leave a room. Further the employees are encouraged and reminded to conserve energy in such activities as, turning off computers and office equipment after completed shifts, discouraging the use of electronic equipment brought in from home such as office refrigerators, coffee makers and heat/cool devices.

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

Ridgewater College recently had the opportunity to purchase a distillation unit for use in an automotive body lab. The distillation unit will decrease or almost eliminate VOC's for F listed wastes.

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

Ridgewater College is pursuing landscaping plans as part of master facility planning efforts. It has been requested that all future landscape plans use low maintenance plantings and techniques.

- h. Purchase electricity generated from renewable sources.

Ridgewater College will continue ongoing efforts to work with the city of Willmar on the use of wind energy. Past efforts have not been fruitful but continued communications look more promising in the future.

Minnesota State Community and Technical College, Wadena Campus

We have undergone a complete lighting retrofit on the Wadena Campus. We updated our lighting with energy-efficient ballasts, light bulbs and have installed motion-sensitive light switches in some classrooms. Along with this project we have also updated our pneumatic control system and computerized our air-handling units.

Our plans are to turn approximately 2 acres of grass into parking lot.

Minneapolis Community & Technical College (MCTC)

The two activities MCTC committed to last year are the following:

- c. MCTC is in the process of encouraging employees to consider alternatives to single – occupancy vehicle commuting. We offer discounted bus passes, free motorized vehicle parking and bike racks.
- f. MCTC is also in the process of procuring and using products with the lowest potential to contribute to air pollution. Our products are low in volatile organic compounds (VOC's). Examples include: Stride Citrus HC which is GS-37 certified and has 0g/L VOC, Glance NA is GS-37 certified and has 0.1 g/L VOC and Freedom Stripper has 100.7 g/L VOC (this was a reduction from the Enviro-solution Stripper).

St. Cloud State University (SCSU)

SCSU - is moving toward commitment to the full a-h range of Executive Order 04-08 activities as follows. 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.

Virgin paper use of about 850 reams (4,250 #) 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 by 5% from 124.7 tons (49,900 reams) to about 47,400 reams (or 237,000 pounds). More data will be sought on 100% post-consumer fiber content paper usage possibilities.

- a. SCSU is focused on purchasing/leasing the most fuel-efficient and least polluting vehicles that meet our operational needs. We've gone from 16 E-85 capable motor pool vehicles to 18 of them as we have replaced our 2 highest mileage and dedicated Public Safety vehicles. (We have 25 total motor pool vehicles after our 2 new E-85 (Taurus 2005) purchase.) Meanwhile, E-85 fuel usage for this fiscal year has remained within 50 gallons of last fiscal years totals of 13,500 gallons. One 15 passenger van was replaced with a 12 passenger unit. 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). Air Emission reduction calculations are not shown because they are pretty much a wash with virtually the same E-85 fuel usage (within 50 gallons of last fiscal years total of 13,500 gallons, in spite of an increase of E-85 vehicles from 16 to 18 totals).
- b. 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
- c. 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.
- d. 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.
- e. SCSU employs energy-conserving strategies in our buildings. For instance, Centennial Hall Renovation is being planned 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.
- f. SCSU actively procures cleaning and painting products based on potential air pollution. Liquids and surface spraying is promoted over aerosols. VOCs are discouraged with a special review committee and O/EHS participation to ensure substitution/replacement. Latex paint is promoted with oil based very limited.

- g. SCSU is experimenting with landscaping and Prairie growth which reduces gasoline use. We are planning how to curtail such use during Air Quality Alert days.
- h. SCSU has committed this April to experiment with wind generated electricity provided through Excel Energy. Investment is minimal to promote learning opportunities which will help balance higher cost.

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.

Northland Community and Technical College

- a. We have purchased E-85 fueled vehicles as we replaced older models or added to the college fleet. In our present fleet of 43, approximately 12 vehicles are E-85 fueled.
- b. We encourage employees to refuel vehicles with the cleanest fuel available.
- c. We encourage employees to carpool with other employees when traveling to meetings, campuses, etc.
- d. We purchase energy-efficient computers, copiers, and other equipment.
- e. We utilize energy-efficient lighting systems.
- f. We purchase recycled office paper, and recycle office paper, toner cartridges, compact discs, plastic bottles, cardboard, newspaper, magazines, and aluminum cans.
- g. We do not employ landscaping that reduces the need for gas-powered equipment.
- h. We do not purchase electricity generated from renewable sources.

We do not have quantifiable data to enter into the calculator.

Inver Hills Community College

Inver Hills uses electronic means of communications when ever possible as well as teleconferencing.

Steps have been taken to purchase and continue to use vehicles that are most efficient and have a high mpg ratio. Inver Hills vehicle is fueled using clean E85 fuel. We have made intranet area where employees are encouraged to communicate about setting up rideshare and using it. IHCC also is on a curtailment plan with Excel reducing our power consumption rate. Our maintenance staff has started using "green" cleaning chemical to reduce air pollution. The grounds staff has installed more planting beds and landscaped are to reduce the amount of grass to water and cut, allowing us to reduce to use of gasoline power equipment hours of operating of these pieces of equipment.

Metropolitan State University

Paper consumption for Fiscal 2005 totaled 16,190 reams. All paper purchased was 10% post-consumer. We do not have fiscal 2004 for a comparison.

Total automotive fuel purchased was not available at time this report was completed.

Mesabi Range Community & Technical College

- a. The College leases two mini vans that use E85 fuel, and employees are encouraged to purchase this fuel when available.
- b. If available, the College uses E85 fuel.
- c. Athletic teams, recruiters, and staff are encouraged to travel to meetings, events, etc. together whenever possible. (I.e. Men's and Women's athletic teams travel to athletic events together.)
- d. All new equipment purchased is up to date and is the most energy efficient possible.
- e. Air handling units are shut off in the evening during heating season. Radiant heat only is used for heating the building during this time. A new HVAC system was installed in the 2004 remodeling project on the Virginia Campus. The HEPRA request for the Eveleth Campus, if funded, would upgrade the HVAC system and help with energy conservation.
- f. The College uses water-based (not oil-based) cleaning compounds whenever available.
- g. Some re-landscaping is being done, and more is being considered in the future for reducing the need for gasoline powered maintenance equipment.
- h. The College does not have a source for electricity generated from renewable sources at this time.

The College did not have the information necessary to use the Emissions Reduction Calculator for this year. This will be a part of our report submission in future years.

Central Lakes College, Brainerd and Staples

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.

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.

Vermilion Community College

The activities chosen by Vermilion to satisfy Executive Order 04-08 included employing energy-conserving strategies in state-owned or leased buildings and employing landscaping that reduces the need for gasoline-powered maintenance equipment. The quantifiable results of these activities from the reduction submittal worksheet are included below. A reduction in fuel oil consumption of approximately 7000 gallons was the result of shutting down the central boiler for the summer months. In the past the boiler was used only to heat domestic hot water in the Residence Hall and athletic locker rooms during the warm weather months. This is now achieved through the addition

of an electric hot water heater in the Residence Hall and the repair of electric hot water elements in the locker rooms. This change not only allowed for significant energy and cost savings, but also contributes to the longevity of the central boilers. In addition, we ceased mowing ½ acre of land where a weather station used to stand. The weather station was removed and the land left to revert back to its natural state.

Action	Total Emissions Reduction (lb)							
	CO	CO2	Hg	NOX	PM10	PM2.5	SO2	VOC
Diesel Vehicles	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Gasoline Vehicles	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Commuter	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
EE Office Equipment	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Energy Conservation	35.000	156,100.000	0.003	168.000	16.660	14.910	596.400	2.380
Low VOC Products	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Landscaping	250.144	461.588	0.000	1.446	0.799	0.735	0.095	13.089
Renewable Electricity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total	285.144	156,561.588	0.003	169.446	17.459	15.645	596.495	15.469

Minnesota State Community & Technical College, Moorhead Campus

04-08 and for Paper Consumption in FY 2005: None Available.

The campus leases the most fuel efficient vehicle available. The campus reduced our fleet in 1995 and leased vans that accommodate the travel needs of the campus without using several vehicles. Several of the campus vehicles are equipped to operate on the available cleaner fuels. The vehicles are equipped with educational materials that identify the cleaner fuel option.

Faculty and staff are encouraged to share rides by charging the vehicle mileage cost back to the programs and cost centers.

The facility staff is completing upgrades to weather striping, sealing and insulation.

(The campus has insufficient data available to determine emission reductions at this time)

Part 4: Pollution Prevention Activities during the Fiscal Year

1. Absorbents

Alexandria Technical College, Alexandria, MN

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.

Northwest Technical College, Bemidji, MN

Automotive and Automotive Machine programs use absorbents that are recycled.

Riverland Community College, Albert Lea and Austin, MN

It is the college’s ongoing policy to use absorbents for clean-up and leaks that can be rung out and re-used. The liquid is collected and disposed of as appropriate.

Dakota County Technical College

DCTC does not use clay-based floor dry at our facilities. We use a cellulose type of absorbent. All used products are incinerated. Our college mechanic uses rags that are laundered.

St. Cloud State University (SCSU)

Absorbent pad and pans or other similar products and Launder able 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.

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.

Hennepin Technical College, Brooklyn Park

Absorbent pads and socks are currently used in the automotive, auto body, marine and recreation, fluid power, machine shop, and heavy truck departments. They are also used in the maintenance department. All used pads and socks are incinerated.

2. Adhesives

Alexandria Technical College, Alexandria, MN

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.

St. Cloud State University (SCSU)

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.

Minnesota State University Moorhead

MSUM currently enforces 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.

Hennepin Technical College, Brooklyn Park

The adhesives used in the carpet replacement at HTC do not generate any hazardous toxins or vapors.

3. Air Quality, CFCs

Alexandria Technical College, Alexandria, MN

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.

Northwest Technical College, Bemidji, MN

We do not know of any air alert days in our community at the present time.

St. Cloud Technical College, St. Cloud, MN

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.

St. Cloud State University (SCSU)

SCSU continues to go beyond recycling Freon. A central Chiller Plant costing over \$3 million was recently put online. It has added capacity to existing systems and reduced CFC's by using R22 refrigerant. The University has been able to continue retiring cooling towers and R12 & R113 chillers as more buildings are linked to the chilled water system.

Minnesota State University Moorhead

All air handling units/heating systems and drains are 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.

Hennepin Technical College, Brooklyn Park

Air quality sampling has been performed on both campuses. In renovated or new construction areas we have purchased higher efficiency air handling units. CFC refrigerant that is used in our chiller plant is R-123. Any types of leaks or repairs that need to be done are taken care of by a qualified contractor.

4. Antifreeze

Alexandria Technical College, Alexandria, MN

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.

Northwest Technical College, Bemidji, MN

Our Automotive and Automotive Machine programs have purchased and are using an antifreeze recycling machine.

Dakota County Technical College

DCTC collects all used antifreeze in a 55 gallon drum and Edel Oil picks it up for recycling.

St. Cloud State University (SCSU)

SCSU is moving away from using antifreeze to winterize cooling coils and is using more controls to reduce fleet use of antifreeze.

Minnesota State University Moorhead

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

Hennepin Technical College, Brooklyn Park

This product is used by the automotive and maintenance departments. The maintenance department uses antifreeze to winterize the cooling coils. It is recycled through Recycool Inc. which is located in Hugo, MN.

Central Lakes College, Brainerd and Staples

Central Lakes College has a agreement with Safety Kleen to recycle our antifreeze.

5. Audits

Alexandria Technical College, Alexandria, MN

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

Dakota County Technical College

MacNeil Environmental performs monthly inspections as part of their environmental health and safety contract with DCTC.

St. Cloud State University (SCSU)

MacNeil Environmental Inc. has performed increased environmental audit functions as part of their Environmental Health & Safety (EHS) contract with SCSU. These relate to elements of hazardous waste disposal, storage tanks, storm water and the OSHA laboratory standard, which encompass pollution prevention. The SCSU Chemical Hygiene Officer (CHO) has received specialized off site Laboratory Safety training this past year. He has become increasingly 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 affect HVAC and electrical system revisions and both energy and water conservation measures. The University is continuing to benefit from their insights.

Minnesota State University Moorhead

Currently, MSUM is undergoing a university-wide energy audit. Energy Services Group will be examining electricity use in both indoor and outdoor lighting. They will also be assessing the steam heating system for steam traps, and performing a first-ever water usage audit. Goals include being able to reduce outdoor lighting needs for at least a few hours during the night and implementing motion sensors indoors to save energy. The audit will produce written quantifiable data that will help the University make improvements throughout all facilities. This data is expected to be completed in the fall of 2005 and will be included in the 2006 P2 summary report for MSUM.

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

6. Automotive Fuels

Alexandria Technical College, Alexandria, MN

There are no E85 vehicles in ATC's fleet due to the lack of availability of a local E85 fuel source. Should an E85 source become available locally, ATC's fleet manager will evaluate the feasibility of using this fuel source for our fleet.

Northwest Technical College, Bemidji, MN

E-85 is not readily available in this area.

Riverland Community College, Albert Lea and Austin, MN

Starting in 2005 the Riverland truck driving program began using Bio-diesel in one of their trucks. The quantifiable data is included in this report.

Minnesota West Community and Technical College

All Minnesota West fleet vehicles burn 10% ethanol or soy-based diesel fuels. We have 2 vehicles in the fleet that burn E-85 fuel.

St. Cloud State University (SCSU)

SCSU has added two 2005 Taurus alternative fuel (ethanol E-85) 5 passenger autos (new total of 18) to their Motor Pool total of 25 vehicles. They produce limited carbon monoxide. Now, University on-site E85 refueling has pumped (within 50 gallons of previous financial year); (about 13,500 gallons) of it for motor pool use this last fiscal year. (The Minnesota Dept. of Commerce/State Energy Office also monitors E85 usage.)

Minnesota State University Moorhead

The automotive fleet is available to faculty, staff, and a large number of students. Due to the broad nature of vehicle use and the lack of area stations providing E-85, it is difficult for the university to monitor the amount of E-85 fuel purchased. The fleet includes 7 sedans, two minivans, and six 12-passenger vans. Two sedans and two minivans are equipped for E85 use. The use of E85 fuel is encouraged, but unfortunately at this writing cannot be monitored. To help reduce emissions and save energy MSUM recently purchased a GEM E-4 electric car for use on the main campus by the Physical Plant staff. The cost to operate 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 used in the Physical Plant's lawn tractors, skidsteer and pay loader 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.

Northland Community and Technical College

Ongoing steps taken during fiscal year 2005 to integrate pollution prevention into college activities: We have purchased E-85 fueled vehicles.

Hennepin Technical College, Brooklyn Park

Gasoline for the grounds equipment and for college owned vehicles is stored underground. There are two 1200 gallon tanks at EPC and one 1000 gallon tank at BPC. The # 2 fuel oil for the boilers is stored in one 20,000 gallon tank at EPC and in two 25,000 gallon tanks at BPC.

Inver Hills Community College

Steps have been taken to purchase and continue to use vehicles that are most efficient and have a high mpg ratio. Inver Hills vehicle is fueled using clean E85 fuel.

Mesabi Range Community & Technical College

The College leases two mini vans that use E85 fuel, and employees are encouraged to purchase this fuel when available.

Central Lakes College, Brainerd and Staples

Central Lakes College purchased 3 vehicles from travel management to burn E85 fuels.

Minnesota State Community & Technical College, Fergus Falls Campus

A fuel vendor in Fergus Falls has, within the past few months, begun to dispense E-85 fuel. We have begun a renewed effort to educate employees to refuel with this grade.

Minnesota State Community & Technical College, Moorhead Campus

The Moorhead Campus pollution prevention plans include continued use of clean fuels and reducing vehicle use.

7. Automotive Maintenance

Alexandria Technical College, Alexandria, MN

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. During 2005, our Dodge Intrepids are scheduled for replacement with more fuel efficient models.

Northwest Technical College, Bemidji, MN

We have reduced our fleet of travel vehicles from 11 down to 5 in the past 2 years because of off campus meeting reductions and the promoted use of electronics for meetings and communication. Three of the 5 remaining vehicles in the line-up are E-85 rated but due to the lack of locally available of E-85 fuel this has not been a pollution reduction for us. The vehicles are tuned and maintained on a regular basis and all pollution control equipment is maintained for peak operating efficiency. Reduction in travel has been substantial, but has not been tracked or substantiated due to staff and budget reductions.

Pine Technical College, Pine City, MN

PTC committed, under Executive Order 04-08, to reduce its pollution impact by purchasing fuel-efficient and less-polluting vehicles, should it replace either of its college vehicles in FY2005. Because of budget restraints, the college was unable to replace either of those vehicles.

Dakota County Technical College

Some college owned automotive maintenance and major vehicle repairs are performed by auto dealerships. Preventative maintenance on trucks and lawn equipment such as oil and filter changes are performed by qualified staff on campus. The used oil, filters and antifreeze are sent to a local recycler.

Minnesota West Community and Technical College

Minnesota West removed 10 older vehicles from our fleet this past year and purchased two newer vehicles. Vehicle #1 is a 2002 Chevy Silverado pickup. Vehicle #2 is a 2004 Chevy Venture van. Since 2000 we have reduced the number of vehicles in the fleet by more than 40.

Minnesota State Community and Technical College, Wadena Campus

We have replaced one leased vehicle through Travel Management and do not have information on fuel efficiency

St. Cloud State University (SCSU)

The SCSU vehicle repair shop has revamped procedures for brake pad/shoe replacement to ensure asbestos fiber release control. Replacement pads are non-asbestos. The Diesel Repair, Locksmith, Plumbing, Print, and Driving Range shops have been using a water based parts washer that generates only a small amount of sludge to be disposed of as hazardous waste.

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.

Hennepin Technical College, Brooklyn Park

HTC has a total of 30 vehicles in which we use a 10% blend as of right now.

8. Batteries

Alexandria Technical College, Alexandria, MN

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

Northwest Technical College, Bemidji, MN

All batteries are recycled.

St. Cloud Technical College, St. Cloud, MN

All batteries are recycled. Every effort is made to ensure that when a new lead-acid battery is purchased, the old one is brought in for exchange. Other batteries are recycled through a local supplier.

Riverland Community College, Albert Lea and Austin, MN

It is an ongoing policy of the college to collect used batteries and dispose of them through a recycling center.

Dakota County Technical College

DCTC collects lead acid batteries and returns them to the supplier for recycling. We also collect nickel cadmium, nickel metal hydride, mercury button, and lithium batteries and send them to a recycler.

St. Cloud State University (SCSU)

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.

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.

Hennepin Technical College, Brooklyn Park

Automotive lead acid batteries are recycled through Goose Lake Salvage. All other batteries are recycled through Green Light Recycling in Blaine.

Central Lakes College, Brainerd and Staples

It is an ongoing policy of the college to collect used batteries and dispose of them through a recycling center.

9. Cleaning Supplies

Alexandria Technical College, Alexandria, MN

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. One program within our campus has converted from a petroleum based parts cleaner to an environmentally friendly orange based cleaner in their parts washers.

Northwest Technical College, Bemidji, MN

We do purchase low volatile cleaning supplies and use water based paints, floor sealers, and carpet cleaners.

St. Cloud Technical College, St. Cloud, MN

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

Riverland Community College, Albert Lea and Austin, MN

Through an ongoing program with vendors and suppliers, biodegradable products are purchased and used at the college. The paper supplies for shop and restroom areas are of the state's highest "green EPA "rating.

St. Cloud State University (SCSU)

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)!

Minnesota State University Moorhead

All buildings are equipped with general cleaning stations involving instruments 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.

Hennepin Technical College, Brooklyn Park

Environmentally friendly cleaning supplies are used at HTC. Supplies are purchased from existing state contracts.

Inver Hills Community College

Our maintenance staff has started using "green" cleaning chemical to reduce air pollution.

Metropolitan State University

Our policy is to operate "green" facilities. This is currently accomplished by use of environmentally friendly products (low VOC paint and Citrus degreaser/cleaner).

Central Lakes College, Brainerd and Staples

Through an ongoing program with vendors and suppliers, biodegradable products are purchased and used at the college. The paper supplies for shop and restroom areas are of the state's highest "green EPA "rating.

10. Commuting and Transportation

Alexandria Technical College, Alexandria, MN

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

Northwest Technical College, Bemidji, MN

Faculty, Staff, and Administration are encouraged to use alternative electronic communication. Due to lack of adequate staffing and budgeting there are no reduction figures from a standard to calculate.

We do encourage the use of electronics for communication in the forms of e-mail, teleconferencing, interactive television, faxing and hosting meetings on campus to control vehicle usage.

St. Cloud Technical College, St. Cloud, MN

Carpooling is strongly encouraged when on college business.

Riverland Community College, Albert Lea and Austin, MN

It is an ongoing policy of the college's to encourage car pooling whenever possible. Meetings are scheduled ITV whenever possible.

Dakota County Technical College

DCTC has a car pool and rideshare board available to staff and students. We are in ongoing negotiations with MVTA and DART to expand bus service to staff and students.

We use electronic communication on a daily basis, including on-line classes which offer convenience and encourage the adoption of processes that promote pollution prevention.

Minnesota State Community and Technical College, Wadena Campus

We encourage all employees to car-pool when traveling to meetings or between campuses.

Minneapolis Community & Technical College (MCTC)

Commuters: Discounted bus passes, free motorized vehicle parking and bike racks are all ongoing and will continue in fiscal year 2006.

St. Cloud State University (SCSU)

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.

Minnesota State University Moorhead

Currently 77% of MSUM students are living off campus. This along with faculty and staff equals a large commuter base for the University. Two recent programs have been implemented with great success to reduce 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. This program averages over 50,000 riders per year and is increasing in popularity and riders. For student safety reasons, 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 9pm-6:30am. There are currently 1,176 students enrolled in this program. Also, due to the diversity of programs at MSUM, any students, faculty, or staff that attends off-campus meetings and conferences are strongly encouraged to form a car pool in order to reach their destination.

Inver Hills Community College

Inver Hills uses electronic means of communications when ever possible as well as teleconferencing. We have made intranet area where employees are encouraged to communicate about setting up rideshare and using it.

Mesabi Range Community & Technical College

Athletic teams, recruiters, and staff are encouraged to travel to meetings, events, etc. together whenever possible. (I.e. Men's and Women's athletic teams travel to athletic events together.)

Central Lakes College, Brainerd and Staples

It is an ongoing policy of the college's to encourage car pooling whenever possible. Meetings are scheduled ITV whenever possible.

Minnesota State Community & Technical College, Fergus Falls Campus

A conscious effort to reduce travel between campuses for meetings began this past year and will continue. Acquisition of poly com technology has provided an alternate meeting venue, and its use is steadily increasing.

Vermilion Community College

We are beginning a fleet evaluation of our vehicles to see if we have the proper mix. Also, the Law Enforcement Training program is partnering with Hibbing Community College for vehicle training. This may result in us returning two Crown Victorias to motor pool in exchange for better mileage FFV vehicles.

11. Education, Communications and Training

Alexandria Technical College, Alexandria, MN

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.

Pine Technical College, Pine City, MN

To extend its pollution prevention efforts to those we serve, PTC has adopted electronic communications to replace its traditional student mail system and its internal communications system for faculty and staff.

The college accomplished this by moving to a totally-electronic means of communications with student and staff, thereby reducing paper waste.

St. Cloud Technical College, St. Cloud, MN

Training is being provided to staff on proper handling of hazardous materials. A new Hazardous Waste program was instituted and the appropriate staff was trained on its contents.

Riverland Community College, Albert Lea and Austin, MN

Annually the staff and faculty of Riverland are trained in RTK, Blood Borne Pathogens, crisis management, etc. Programs and departments that need additional training such as: Hazardous chemicals and wastes, Lock out-tag out, confined spaces, ladders and lifts, etc. are trained annually as needed.

Dakota County Technical College

Identified college employees are sent for hazardous waste training annually. Administrative personnel attend and participate in local council and committee meetings to address the community needs for environmental conservation.

St. Cloud State University (SCSU)

The Environmental and Technological Studies Department of SCSU reflects increased opportunities for pollution prevention emphasis in the region of laboratory procedures. An internship program has expanded Hazardous Waste controls! An online degree in aviation maintenance management is now available. A Master of Science program in Environmental and Technical Studies, begun six 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.

The charter class of 20 nursing students received their baccalaureate degrees May 9th 2004.

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. Recently students have taken initiative to form groups of their own that help raise awareness within the community as well. Some of those groups include: The Sustainable Campus Committee, MSUM Environmental Action Network, Support International, GEO, Tri-Beta, and Volunteer Visions. These groups help educate the community by becoming involved in yearly events such as Earth Week Speakers, campus cleanup day, and many more.

Central Lakes College, Brainerd and Staples

Annually the staff and faculty of Central Lakes College are trained in RTK, Blood Borne Pathogens, crisis management, etc. Programs and departments that need additional training such as: Hazardous chemicals and wastes, Lock out-tag out, confined spaces, ladders and lifts, etc. are trained annually as needed.

12. Electronics

Alexandria Technical College, Alexandria, MN

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.

Northwest Technical College, Bemidji, MN

We do have an understanding in our Information Technologies (IT) Department that all equipment that is purchased is the most energy efficient available and energy star rated.

St. Cloud Technical College, St. Cloud, MN

All electronics (circuit boards, computer monitors, computers etc.) are properly disposed of through licensed contractors.

Dakota County Technical College

All used electronic equipment is recycled through the MnSCU system and then asset recovery programs. DCTC is committed to reducing energy consumption through purchasing energy efficient office equipment and appliances. Three hundred monitors have been replaced with energy efficient models. All new appliances and copy machines are equipped with energy efficient modes.

St. Cloud State University (SCSU)

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 49,950# and net cost of about \$14,620) were recycled for somewhat

offsetting commodity and precious metal credits. Styrofoam from computer, electronic, and other shipping cartons was also recycled.

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 helps 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.

Northland Community and Technical College

Ongoing steps taken during fiscal year 2005 to integrate pollution prevention into college activities: We have expanded our recycling program on all campuses.

13. Energy - Use

Alexandria Technical College, Alexandria, MN

Energy conservation strategies have been a major focus for ATC's Facilities and Maintenance Department. Our continuous energy conservation program includes winterizing all overhead 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 has replaced 1/8th 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.

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. Two 100 gallon water heaters on the Main Campus have been replaced with high efficiency condensate models with a 98% energy star rating.

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.

Northwest Technical College, Bemidji, MN

In the past year Energy Services Group located at 15500 Wayzata Boulevard, Suite 1003, Wayzata, Mn 55391 (952) 473-3162 entered into a contract with Northwest Technical College and MnSCU to provide a guaranteed energy and cost saving program. They are monitoring usages of all of our recent building, lighting and HVAC upgrades and can provide detailed cost and usage analysis. We removed old boilers and installed 3 new high efficiency boilers (90%), and converted from a steam system to hot water. A new computerized, digital, HVAC control system was installed that utilizes multi-point space occupancy, and time inputted technology control. A complete building lighting upgrade was done with a new digital controlled main power panel, energy efficient lighting with motion detector controls, new LED exit lighting, vending machine controls, and one high efficiency rooftop replacement unit that supplies HVAC to the computer labs. A complete new roof replacement project started this summer that will bring the insulation and skin up to the MnSCU roof standards. Also in the roofing project are wind breaks for the front entry and new energy efficient windows in the entry and atrium area.

Plant Operations also uses only energy star rated replacement motors. PO also makes sure that all renovations and building upgrades, remodels and additions are energy efficient to save operating costs and at the same time reduce our use of energy and pollution generation.

St. Cloud Technical College, St. Cloud, MN

Our College campus uses clean burning natural gas for heating and #2 fuel oil as a backup fuel only. 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.

Riverland Community College, Albert Lea and Austin, MN

The college has an ongoing agreement with the local utilities to curtail usage when required. We agree to curtail 165 kw's per hour when on alert, resulting in a monetary savings to the college.

Dakota County Technical College

DCTC campus buildings have been retrofitted with energy conserving fixtures and timers. All fluorescent bulbs are recycled by Green lights.

St. Cloud State University (SCSU)

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.

Minnesota State University Moorhead

To help better understand ways the university community can save on energy consumption, the campus is currently conducting an energy audit. This audit will examine lighting, heating, and will include a first ever water usage assessment. Recommendations following the energy audit 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.

A new science lab building and residence hall is equipped with motion sensors for lighting in hallways, classrooms, and stairwells. This reduces the amount of time lighting is on, and increases the likelihood of lights being off when not in use.

Design and planning of a new Student Wellness Center will center on adopting practices of LEED Certification. LEED (Leadership in Energy and Environmental Design) Green Building Rating System[®] 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.

Hennepin Technical College, Brooklyn Park

Both EPC and BPC had an energy management system installed in 1991-92 and we continue to upgrade the system to monitor HVAC to improve efficiencies. In 1996 both campuses went through a lighting retrofit. All PCB ballasts were replaced with electronic ballasts. Also, motion detectors were added to the classrooms, offices, and corridors.

In 1996 we upgraded the fire alarm system at BPC and in 1997 we upgraded the fire alarm system at EPC. Any renovation projects that take place at HTC have energy efficient lamps, ballasts, and motors.

Inver Hills Community College

IHCC also is on a curtailment plan with Excel reducing our power consumption rate.

Metropolitan State University

Our policy is to operate “green” facilities. This is currently accomplished by using electronic work orders in both facilities and IT departments to reduce paper consumption, installing only energy efficient equipment that would meet Xcel Energy rebate requirements, complete campus building recommissioning to maximize operating efficiency, monitoring power factor for maximum efficiency, lighting controls in two of four main buildings, energy efficient lighting.

Metropolitan State is committed to energy reduction through purchase of high efficiency equipment, employing energy conserving strategy in state owned buildings, procurement of products that minimize potential for air pollution.

Mesabi Range Community & Technical College

All new equipment purchased is up to date and is the most energy efficient possible.

Central Lakes College, Brainerd and Staples

The College has an ongoing agreement with the local utilities to curtail usage when required. We are also phasing out T-12 lighting to retrofit to T-8 lighting.

Vermilion Community College

ESG and Johnson Controls have both performed initial energy assessments of VCC. Both assessments indicate guaranteed energy savings of \$50,000-100,000 per year with \$400,000-500,000 in energy upgrades. Discussions to continue regarding entering into a contract with one of these providers. In addition, we are in the midst of replacing all appliances (refrigerators and ranges) in on-campus housing units with newer, more efficient units. The current units are 10-20 years old.

Minnesota State Community & Technical College, Moorhead Campus

Recent bonding funds will provide a new energy efficient boiler, and other heating system improvements. One of the temporary buildings on the campus will be reduced in size. Several large and small overhead doors and walk doors will be removed during this bonding project.

14. Energy Production

Alexandria Technical College, Alexandria, MN

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

Northwest Technical College, Bemidji, MN

We purchase our electricity through Ottertail Power Company.

St. Cloud State University (SCSU)

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.

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; CO₂ – 612,937.204; HG – 0.014; NOX – 1,362.653; PM₁₀ – 123.665; PM_{2.5} – 94.999; SO₂ – 2460.975; 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 Green Fee during 2004, the Sustainable Campus Committee is strongly pursuing the construction of a 1.5 million dollar wind turbine. It is proposed that electricity produced will be equal to the amount needed to operate the Student Union, Student Healthcare Center, and proposed Student Wellness Center complex.

Hennepin Technical College, Brooklyn Park

The energy management systems at EPC and BPC allow us to schedule our AHU's to turn on and off at a programmed time. At the BP campus we installed 3 electric York chillers in the fall of 2003 and 3 backup generators in 2004.

Mesabi Range Community & Technical College

The College does not have a source for electricity generated from renewable sources at this time.

Vermilion Community College

VCC currently has a dormant wood boiler. We are considering an efficiency study to determine if repairing and using this boiler makes more sense now given the rising cost of fuel oil

15. Groundwater Wells

St. Cloud Technical College, St. Cloud, MN

The wells on SCTC campus are used for lawn irrigation.

St. Cloud State University (SCSU)

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

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 an 83 foot well that utilizes groundwater from the Buffalo Aquifer. This well is regularly monitored by the Minnesota Department of Health. The main campus of MSUM is supplied by Moorhead Public Service. They obtain 85% of their water supply from the Red River, and only 15% from seven groundwater wells.

Hennepin Technical College, Brooklyn Park

There are two wells at the EPC, one is no longer used and one is used for lawn irrigation only. There are two wells at BPC, one is no longer used and one is used for greenhouse program.

Central Lakes College, Brainerd and Staples

We use our own well to supply water to irrigate the grounds at the Staples Campus.

16. Heavy Metals

Alexandria Technical College, Alexandria, MN

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.

Northwest Technical College, Bemidji, MN

The Dental program recycles their heavy metals.

St. Cloud Technical College, St. Cloud, MN

During the past year the individuals working at the SCTC campus made a commitment to remove as much mercury metal from the classrooms and labs as possible. With the help of the Minnesota Pollution Control Agency and its "Mercury Free Zone" program mercury survey was done at the college. As a result almost all classroom equipment is now mercury free. As thermostats, gauges etc, need replacing we are replacing them with non-mercury containing parts. As a result of this effort the campus turned in approximately 85 lbs of liquid mercury for disposal or reuse. This was a significant step in preventing mercury pollution of the air, water and ground.

Dakota County Technical College

DCTC has eliminated all mercury thermometers and thermostats. The photo technology program practices silver recovery and recycling.

St. Cloud State University (SCSU)

Campus-wide, efforts are underway at SCSU to minimize mercury use and mercury thermometers. Waste photographic paper and chemicals are processed off-site to render them non-hazardous and recover silver. Conversion to a bulk storage and transfer process for spent photo-fixer has cut costs. Several conventional darkrooms across campus including ones in Environmental and Technological Studies have been removed. (They were replaced with electronic imaging systems.) Also, about 20 pounds of video and audio film has been recycled through Generic Media of Minneapolis thanks to MnTAP's Source materials exchange listings. Minor amounts of gold, silver, copper, and palladium were recovered from our electronic recycling program. Many containers of heavy metal compounds were removed from SCSU using the U of M Chemical Safety Day Program.

Minnesota State University Moorhead

Within the photo development areas on campus, silver continues to be reclaimed. Also, all mercury bearing thermometers have been replaced by non-toxic alternatives.

17. HVAC, Indoor Quality

Alexandria Technical College, Alexandria, MN

As HVAC funds become available, Freon based cooling units are replaced with roof-mounted, energy efficient cooling systems which reduce energy consumption.

Northwest Technical College, Bemidji, MN

We removed old boilers and installed 3 new high efficiency boilers (90%), and converted from a steam system to hot water. A new computerized, digital, HVAC control system was installed that utilizes multi-point space occupancy, and time inputted technology control.

St. Cloud Technical College, St. Cloud, MN

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. Certain areas/labs at SCTC will have air quality monitoring scheduled to ensure clean indoor air.

Riverland Community College, Albert Lea and Austin, MN

Both Austin campuses have new HVAC systems in the last 5 years that are more energy efficient than the old ones, allowing us more control over what we heat and cool when. The Albert Lea campus has 4 new rooftop units replacing 35 year old inefficient units.

Minnesota West Community and Technical College

In 2002, Minnesota West began a multi-year program to upgrade the HVAC systems at our campus locations. To date we have invested over \$2 million in new technology and infrastructure. Included in this program are computerized energy management systems, Energy efficient pumps and boilers and chillers. In this past year, we installed 2, 98% efficient hydronic boilers(replacing a steam boiler hydronic converter system), a new 100-ton chiller (replaced a 30 year old unit), a multi-building 270-ton chiller (replaced multiple 30 year old units), a state-of- the- art AHU (replaced 4 39 year old units) that serves approx 56,000 gsf.

St. Cloud State University (SCSU)

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. MacNeil Environmental Inc. (MEI) has performed six air sampling surveys expanding to seven buildings. The painting department not only uses water based paints and varnishes but is also upgrading ventilation controls to improve and IAQ. A paint spray booth was added to Headly Hall room 113. 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.

SCSU Health Services, Maintenance, Public Safety, and Lindgren Child Care Center heads are taking the lead on disaster planning and participated on campus in a large scale simulated mustard gas release as part of a community drill. Over 100 campus volunteers also participated in the toxic gas release mock disaster simulation.

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.

Northland Community and Technical College

Ongoing steps taken during fiscal year 2005 to integrate pollution prevention into college activities: 70% of the college facilities have computerized HVAC systems in place.

Hennepin Technical College, Brooklyn Park

Replaced filters in all AHU's with a rating of 80% to collect more particles. Monitoring and testing are done periodically.

Mesabi Range Community & Technical College

Air handling units are shut off in the evening during heating season. Radiant heat only is used for heating the building during this time. A new HVAC system was installed in the 2004 remodeling project on the Virginia Campus. The HEPR request for the Eveleth Campus, if funded, would upgrade the HVAC system and help with energy conservation.

Central Lakes College, Brainerd and Staples

We contracted Energy Savings Groups to purchase new boilers and controls at the Brainerd Campus to reduce and save energy. We have also upgraded our system at the Staples Campus.

Vermilion Community College

FY06 HEAPR request includes \$1.5 million for Phase I work to upgrade 35-year-old air handlers and one boiler.

Minnesota State Community & Technical College, Moorhead Campus

The facilities staff will continues to seal, weather strip, replace doors and improve insulation factors in the building.

18. Ice Control, Sanding

Alexandria Technical College, Alexandria, MN

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.

Northwest Technical College, Bemidji, MN

We use a brush mounted sweeper in the winter to minimize the amount of sidewalk de-icers.

St. Cloud Technical College, St. Cloud, MN

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

Riverland Community College, Albert Lea and Austin, MN

It is an ongoing practice of the colleges to sand and grit walkways, drives, and parking lots on an as needed basis.

Dakota County Technical College

DCTC uses a 40/60 sand salt solution on parking lots and sidewalks to ensure the safety of students and staff.

St. Cloud State University (SCSU)

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.

Minnesota State University Moorhead

The University's Physical Plant aggressively removes ice and snow and uses 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.

Hennepin Technical College, Brooklyn Park

Sidewalks and parking lots are cleared of snow and a mixture of sand and salt are then applied where needed. A plowing contractor performs snow removal on five of the parking lots at each campus whenever there is 2" or more of snowfall. The remaining areas and other lots are done by the maintenance department.

19. Laboratory

Alexandria Technical College, Alexandria, MN

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.

St. Cloud Technical College, St. Cloud, MN

As the laboratories and classrooms are being updated at SCTC 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 (SCSU)

MacNeil Environmental Inc. (MEI) trained Science staff and faculty last winter on pollution prevention and waste minimization at SCSU as part of OSHA Laboratory Standard training. MEI's role has expanded to include principal consultants, special audits, and having a Certified Industrial Hygienist on campus almost daily. There is a bigger focus on radiation controls. 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. A staff member (recently added to the SCSU Chemistry department) has made major progress in hazardous waste controls and better utilizing local city sewer system (POTW) contacts and treatment criteria to save over 7,000\$. Peers have teamed with the University of Minnesota to recycle surplus laboratory glassware.

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. Better Formaldehyde and mercury controls are being used.

Minnesota State University Moorhead

A new science laboratory building on the MSUM main campus allows centralized control over laboratory practices for the Biology and Chemistry Departments. This new centralization has led to the development of a chemical inventory system. This system allows faculty to track and inventory chemicals at MSUM facilities. This eliminates the need for duplication of chemicals and provides less waste.

Extensive safety and procedural training/testing are required of all students participating in Chemistry labs. Neutralization is taught and incorporated in many experiments, producing a sewer-friendly product. The Department of Biology recently cleaned out stores of excess formaldehyde and reduced the amounts of currently used formaldehyde preserved specimens. The waste product was disposed of through the Department of Environmental Health and Safety's Hazardous Waste Program.

20. Landscaping

Alexandria Technical College, Alexandria, MN

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

Northwest Technical College, Bemidji, MN

We use 62" and 90" lawn mowers to reduce the amount of time spent with gas engines running. We have added pavers' patio areas and sidewalks around the building to reduce the amount of trimming time required.

St. Cloud Technical College, St. Cloud, MN

Building expansion and planting trees is reducing the amount of grass that needs to be cut.

Riverland Community College, Albert Lea and Austin, MN

This past year the college has reduced mowing and trimming in a few areas. The data is attached.

Dakota County Technical College

We are employing landscaping techniques that will reduce the need for gas powered maintenance equipment. DCTC has upgraded the landscape equipment to the most fuel-efficient available. We avoid mowing on pollution alert days.

Minnesota West Community and Technical College

This past year, Minnesota West landscaping efforts have reduced lawn areas by 4,500 square feet. And, we have reduced the amount of trimming by approx. 40%. We are purchasing 4-cycle engine trimmers to replace our 2-cycle engine equipment at all locations.

Minnesota State Community and Technical College, Wadena Campus

Our plans are to turn about 2 acres of grassland into parking lot as well as land-scaping around the building replacing grass with flower-beds and shrubs.

St. Cloud State University (SCSU)

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.

Minnesota State University Moorhead

Currently MSUM is exploring new landscaping options for the facility storm water detention pond. The available changes may include conversion into a wetland retention area, and reintroduction of native grasses. For the main campus, current procedures for lawn, tree, and flower maintenance are being reviewed to reveal areas where improvement is needed. Due to the large grassy mall area in the center of campus, it is difficult to make improvements without drastic changes to its aesthetics and character. During the past year approximately .5 acres of perennial gardens have replaced lawn grass areas in and around buildings, especially those areas close to building air intake systems. This practice requires less mowing and decreases indoor air quality issues from engine exhaust being brought into the building's air intake systems. These new perennial gardens equate to a total emissions reduction (lb): CO – 247.972; CO₂ – 454.359; NO_x – 1.372; PM₁₀ – 0.771; PM_{2.5} – 0.710; SO₂ – 0.093; and VOC – 9.964.

MSUM's Regional Science Center however, has implemented 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 has implemented a control program that uses *Aphthona nigriscutis*, 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.

Inver Hills Community College

The grounds staff has installed more planting beds and landscaped areas to reduce the amount of grass to water and cut, allowing us to reduce to use of gasoline power equipment hours of operating of these pieces of equipment.

Metropolitan State University

Our policy is to operate “green” facilities. This is currently accomplished by installation of approximately one acre “no maintenance” landscaping. Our campus master plan includes more low maintenance landscaping in courtyard area. And landscaping that maximizes native plants, minimizes maintenance, and reduces need for gas powered equipment.

Mesabi Range Community & Technical College

Some re-landscaping is being done, and more is being considered in the future for reducing the need for gasoline powered maintenance equipment.

Central Lakes College, Brainerd and Staples

We reduced our maintained grounds by 4 acres by planting prairie grass and building ponds and gardens. We are on an ongoing reduction phase.

Vermilion Community College

We intend to approach a landscape architect firm about a landscape plan for the entire campus. This plan would include reducing the amount of manicured turf on the campus in favor of allowing areas to revert to their natural state.

21. Materials Exchange

Alexandria Technical College, Alexandria, MN

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

St. Cloud State University (SCSU)

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.

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.

Each year MSUM hosts the Great Garbage Giveaway where departments can get rid of unwanted materials that are of no use to them, any other department and/or agency. Promotions for this event are publicized both on and off campus.

The existing recycling program on the MSUM main campus is scheduled to undergo modification during the 05-06 academic years. These improvements include assessment of collection areas, program expansion, and improving recycling education and resources.

22. Office Supplies

Alexandria Technical College, Alexandria, MN

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.

Northwest Technical College, Bemidji, MN

Energy Star rated office equipment and replacement/repair for HVAC equipment is being done.

Dakota County Technical College

Office supplies are purchased from state contracts and state surplus whenever possible. All paper, cardboard and toners are recycled.

St. Cloud State University (SCSU)

SCSU extensively uses paper with 50%-recycled content and 30% post-consumer fiber content and has reduced usage by about 5% to 47,400 reams from last fiscal years usage of 124.7 tons (49,900 reams). Office and computer paper is recycled. An exception is most of about 850 reams of colored paper used in our student union copy shop and very comparable to last year's use of 838 reams. (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. Using e-mail to post surplus supplies for use in other departments has been very successful about 15 times this past year. Desks, plants, pesticides, produce, chemicals, computers and cooking oil for bio-diesel were also recycled.

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 is 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 24,039 reams (240.39 tons) of office paper. This amount included 22,252 reams of 30% post-consumer content paper and 130 reams of 100% post-consumer content paper. The associated energy use for the total of all paper used included 1,224,948.66 lbs of greenhouse gasses, and 1,203,211.8 lbs of wood.

Hennepin Technical College, Brooklyn Park

We recycle our used toner cartridges and we buy recycled toner cartridges. We also buy recycled paper.

23. Oil, Oil Filters

Alexandria Technical College, Alexandria, MN

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

Northwest Technical College, Bemidji, MN

Oils and filters are recycled.

St. Cloud Technical College, St. Cloud, MN

Used oil is collected and recycled; oil filters are drained for 24 hours and recycled.

Dakota County Technical College

DCTC collects oil and oil filters and sends them to Edel oil for recycling.

St. Cloud State University (SCSU)

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

Minnesota State University Moorhead

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

Hennepin Technical College, Brooklyn Park

EPC- Oil filters are drained, crushed and then stored in a 30 gallon ring top drum picked up by OSI. The used oil which is stored in a 250 gallon above ground tank is also picked up by OSI. At BPC the oil filters are drained, crushed and stored in 30 gallon ring top. They are picked up by Safety Kleen. The waste oil is stored in a 500 gallon under ground tank and is also picked up by OSI.

24. Paints, Coatings, Stripping

Alexandria Technical College, Alexandria, MN

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.

Northwest Technical College, Bemidji, MN

We do purchase low volatile cleaning supplies and use water based paints, floor sealers, and carpet cleaners.

St. Cloud Technical College, St. Cloud, MN

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.

Riverland Community College, Albert Lea and Austin, MN

A few years ago we encouraged the theater department, and carpentry departments to switch to water based paints and to eliminate the use of petroleum based products.

Dakota County Technical College

Latex paints are used whenever possible at DCTC by our maintenance department instead of oil based paint to reduce VOC's.

Minneapolis Community & Technical College (MCTC)

Low VOC's: Purchasing products with the lowest potential to contribute to air pollution is ongoing and will continue in fiscal year 2006. Examples include: Freedom Stripper 100.7 g/L VOC changed to Spartan GreenSolutions Stripper 61.0 g/L VOC, Spartan Sheen 17 Floor finish 45.0 g/L to Spartan GreenSolutions finish 0g/L VOC and Spartan Extraction II 20.9 g/L to Clean By Peroxy 0 g/L.

St. Cloud State University (SCSU)

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

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 even "Green Seal Approved".

Metropolitan State University

Our policy is to operate "green" facilities. This is currently accomplished by use of environmentally friendly products (low VOC paint and Citrus degreaser/cleaner).

Mesabi Range Community & Technical College

The College uses water-based (not oil-based) cleaning compounds whenever available.

25. Parts Cleaning

Alexandria Technical College, Alexandria, MN

The Diesel Mechanic, Marine and Small Engine and Truck Driving programs use a petroleum based distillate parts cleaning system managed by a licensed contractor. Other programs on campus have converted to orange-based parts cleaning systems. ATC will be implementing recycling parts washers using a distillation filtration process to virtually eliminate hazardous waste generation. This implementation will occur during the next fiscal year and will reduce our generation status from a Small Quantity Generator to a Very Small Quantity Generator.

Northwest Technical College, Bemidji, MN

Our Automotive and Automotive Machine programs have changed from solvent to water based parts washers. They have purchased and are using an antifreeze recycling machine.

St. Cloud Technical College, St. Cloud, MN

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

Riverland Community College, Albert Lea and Austin, MN

The programs that have parts washers have switched to a more environmental friendly product that can be cleaned and recycled.

Dakota County Technical College

Comolube changes the parts cleaning solution every month.

St. Cloud State University (SCSU)

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, which provides them pollution prevention "WE CARE" (r) training.

Minnesota State University Moorhead

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

Hennepin Technical College, Brooklyn Park

We use Como-Lube for the parts cleaner.

Central Lakes College, Brainerd and Staples

The programs that have parts washers have switched to a more environmental friendly product that can be cleaned and recycled.

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

Alexandria Technical College, Alexandria, MN

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.

Northwest Technical College, Bemidji, MN

We use a licensed pest control service, (Ecolab). We have not used fertilizers for at least 5 years.

St. Cloud Technical College, St. Cloud, MN

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.

Riverland Community College, Albert Lea and Austin, MN

In the past two years the college has gone from four lawn treatments per year to one treatment per year at all four locations.

Dakota County Technical College

DCTC adheres to all federal, state and local standards when applying any pesticides and fertilizers while trying to minimize their usage.

St. Cloud State University (SCSU)

At SCSU, 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 and to avoid phosphates. Special emphasis is given to proper mixing quantities and cleanup in the event of an accidental spill. Phosphate use concerns were addressed in MS4 actions and public community concern/outreach meetings.

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 new Spill Response Program has been 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.

Hennepin Technical College, Brooklyn Park

We use Tru-Green Chemlawn.

28. Policy Statement

Alexandria Technical College, Alexandria, MN

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.

St. Cloud Technical College, St. Cloud, MN

St. Cloud Technical College 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.

Dakota County Technical College

Dakota County Technical College is committed to excellence and leadership in protecting the environment. In keeping with the policy, our objective is to reduce our energy consumption, and to promote clean air landscaping. By successfully preventing pollution and conserving energy at its source, we can achieve cost savings, increase operational efficiencies, and improve the environment. Dakota County Technical College's environmental guidelines include the following:

Environmental protection is everyone's responsibility. It is valued and displays commitment to DCTC. We will continue to pursue energy conservation and efficiency improvements in our operations, and promote conservation practices and investments in energy-efficient technologies. DCTC will encourage clean air landscaping and strive to reduce the mow-able square footage of turf and replace current mowers with the most fuel-efficient mowers available. DCTC seeks to demonstrate its corporative citizenship by adhering to environmental regulations. We promote cooperation and coordination between higher education, government, and industry, toward the shared goal of reducing waste at its source and recycling in an environmentally sound manner.

St. Cloud State University (SCSU)

"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."

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.

Northland Community and Technical College

Activities the college is planning for fiscal year 2006 and beyond:

We will continue to implement and practice strategies for energy savings and pollution prevention. We will develop college policies that will encourage/support the college's and the state's efforts for energy efficiency and pollution prevention. We will further expand the college's recycling efforts on all campuses. We will continue to purchase E-85 fueled vehicles as we replace or add vehicles in our fleet.

Minnesota State Community & Technical College, Moorhead Campus

The Moorhead Campus pollution prevention plans include continued use of clean fuels and reducing vehicle use. The facilities staff will continue to seal, weather strip, replace doors and improve insulation factors in the building. Recent bonding funds will provide a new energy efficient boiler, and other heating system improvements. One of the temporary buildings on the campus will be reduced in size. Several large and small overhead doors and walk doors will be removed during this bonding project. None of these projects are completed at this time.

29. Printing

Alexandria Technical College, Alexandria, MN

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.

Dakota County Technical College

DCTC has upgraded all machinery and components to the most environmentally responsible available. We encourage two sided copying whenever possible.

St. Cloud State University (SCSU)

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.

Minnesota State University Moorhead

Campus Printing Services has moved to using vegetable-based inks and are using 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.

30. Procurement

Alexandria Technical College, Alexandria, MN

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.

Dakota County Technical College

DCTC purchases from state approved environmentally committed contractors whenever possible.

St. Cloud State University (SCSU)

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.

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.

Minnesota State Community & Technical College, Fergus Falls Campus

By culture and practice the college's procurement processes have long considered efficiency and pollution sensitivity.

31. Remanufactured Parts

Alexandria Technical College, Alexandria, MN

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 part cost effectively prolongs the life of these units.

St. Cloud State University (SCSU)

SCSU uses remanufactured photocopier cartridges.

Minnesota State University Moorhead

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

32. Tanks

St. Cloud State University (SCSU)

Tanks (storage) - a single unused Underground Storage Tank was found under Richard Green House decking and removal is underway. A single unused (UST) will remain at SCSU. It is empty and below the basement floor of AH, an occupied house. Monitoring and perhaps removal is being planned. Spill containment control was expanded outside the dike to the delivery connections of our twin #2 fuel oil Aboveground Storage Tanks (ASTs). Further SPCC plan and training action is underway.

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, overflow protection, leak detection, and are inspected weekly. Also at the Physical Plant are a 1,000 gallon gasoline tank, and a 560 gallon diesel tank. These are above ground, double walled tanks equipped with overflow protection, etc.

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

Hennepin Technical College, Brooklyn Park

BPC- 2 @ 25,000 gallon for fuel oil
1 @ 500 gallons for waste oil
2@ 1000 gallon for gasoline
EPC- 1@ 20,000 gallons for fuel oil
1@ 200 gallons for waste oil
2@ 1200 gallons for gasoline

Vermilion Community College

Underground fuel oil tanks were cleaned and inspected in 2005. Contaminated oil was removed and source of contamination was identified and will be corrected.

33. Technical Support

Alexandria Technical College, Alexandria, MN

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

St. Cloud Technical College, St. Cloud, MN

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 (SCSU)

St. Cloud State University - (one of the most highly accredited colleges in the nation) frequently has highly accredited Technical Support provided by its Occupational/Environmental Health and Safety consultant, MacNeil Environmental Inc. (MEI). MEI has several Masters level O/EHS specialists on staff and has maintained a Minnesota Licensed Professional Engineer (Civil and Environmental) on campus for eight years in an office in the Buildings and Grounds Management center. The ready availability of this Certified Safety Professional/Certified Industrial Hygienist engineer has aided SCSU recycling, renovations, and waste minimization efforts. 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.

Minnesota State University Moorhead

Currently MSUM is undergoing a professional energy audit being conducted by the Energy Services Group. For more information on the audit, please refer to the ‘Audits’ section of this report.

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. Also, currently the Sustainable Campus Committee is working on a campus-wide environmental assessment through the National Wildlife Federation’s Campus Ecology Program.

34. Tires

Alexandria Technical College, Alexandria, MN

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

Northwest Technical College, Bemidji, MN

All tires are recycled.

St. Cloud Technical College, St. Cloud, MN

All tires are recycled through local through local vendors.

St. Cloud State University (SCSU)

About 95 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.

Minnesota State University Moorhead

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

Hennepin Technical College, Brooklyn Park

Tires are recycled by Goose Lake Salvage.

Central Lakes College, Brainerd and Staples

We encourage our heavy equipment and diesel programs to have suppliers take the used tires when purchasing new.

35. Water Treatment and Conservation

Alexandria Technical College, Alexandria, MN

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.

St. Cloud State University (SCSU)

This past year progress continued at SCSU on replacing systems to reduce water use. Extensive lead-in-water testing has been completed in the campus houses being used for office space. Results were all well below the action level and most were below 5.0 ug/l. A MnSCU survey resulted in some water conservation improvements. A dorm (SBH) flushing retrofit project cut water usage by half. However, the lower flows put SBH into a subsequently higher rate which resulted in anticipated saving becoming a wash.

Minnesota State University Moorhead

A computer managed watering system has been installed on the athletic field, 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 was recently completed and is managed under the university's storm water pollution prevention program. This system will significantly reduce the amount of contaminated run-off water directly flowing into the city's storm sewer. An energy audit is currently being conducted by Energy Services Group with a focus on a water usage assessment.

Hennepin Technical College, Brooklyn Park

Chilled water and heating loops, cooling towers and boilers at both campuses.

36. Other

St. Cloud Technical College, St. Cloud, MN

Last November 2004 a “Hazardous Waste” collection period was announced and old/excess chemicals from the labs and classrooms were turned in for reuse or disposal. This prevents these chemicals from accidentally spilling and entering the air as well as the water or ground.

St. Cloud State University (SCSU)

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

Minnesota State University Moorhead

The 2003–2004 development of the Sustainable Campus Committee was a big step for the MSUM community towards a more environmentally sound future. This committee formed following the creation of a sustainable campus initiative involving a group of students. The student senate approved the initiative, and soon after a committee was formed. Members include students (majority), faculty, staff, & administrators. To fund projects of the Sustainable Campus Committee, a fee of \$3 per semester per student was approved. This fee will generate approximately \$45,000 per academic year. The committee was successful during the fall of 2004 in implementing a recycling program within the residence halls and is working to expand that program for the 05-06 academic year. One of the initiative’s driving goals is to research and implement a student-owned wind turbine. This turbine would cost approximately 1.5 million dollars and would provide enough energy for MSUM to supply the Student Union, Health Center, and proposed Wellness Center. To help promote the initiative a logo contest was held in the spring of 2005. A winning logo was chosen from a group of student submitted designs by the committee. The logo will be used for promotion, but will also serve as a symbol for educational materials as well. Education at MSUM and within the surrounding community is a vital part of the sustainable campus initiative.

Part 5: Matrix of College/university and Categories

Alexandria Technical College, Alexandria, MN

Activity Type	Ongoing	FY 2005	Planned	Quantifiable Data Included?
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				

Northwest Technical College, Bemidji, MN

ACTIVITY TYPE	ONGOING	FY 2005	PLANNED	DATA INCLUDED
1. ABSORBENTS	X			X
2. ADHESIVES	N/A			
3. AIR QUALITY, CFC's				
4. ANTIFREEZE	X			X
5. AUDITS				
6. AUTOMOTIVE FUELS	X			X
7. AUTOMOTIVE MAINT.	X			X
8. BATTERIES	X			X
9. CLEANING SUPPLIES	X			X
10. COMMUTING AND TRANSPORTATION	X			
11. EDUCATION, COMMUNICATIONS, TRAINING				
12. ELECTRONICS	X			X
13. ENERGY USE	X			X
14. ENERGY PRODUCTION				
15. GROUNDWATER WELLS	N/A			
16. HEAVY METALS	X			X
17. HVAC, INDOOR AIR QUALITY			X	
18. ICE CONTROL/SANDING	X			X
19. LABORATORY	X			X
20. LANDSCAPING	X			X
21. MATERIALS EXCHANGE				
22. OFFICE SUPPLIES				
23. OIL / OIL FILTERS	X			X
24. PAINTS/COATINGS/STRIPPERS	X			X
25. PARTS CLEANING	X			X
26. PERSONAL CARE PRODUCTS				
27. PESTICIDES / FERTILIZERS	X			X
28. POLICY STATEMENT				
29. PRINTING				
30. PROCUREMENT	X			X
31. REMANUFACTURED PARTS				
32. TANKS	X			X
33. TECHNICAL SUPPORT				
34. TIRES	X			X
35. WATER TREATMENT	N/A			
36. OTHER				

Pine Technical College, Pine City, MN

Activity Type	Ongoing	FY 2005	Planned	Quantifiable Data Included?
1. Absorbents				
2. Adhesives				
3. Air Quality, CFCs				
4. Antifreeze				
5. Audits				
6. Automotive Fuels			X	
7. Automotive Maintenance				
8. Batteries				
9. Cleaning Supplies				
10. Commuting and Transportation				
11. Education, Communications and Training				
12. Electronics				
13. Energy -Use			X	
14. Energy – Production				
15. Groundwater Wells				
16. Heavy Metals				
17. HVAC, Indoor Air Quality			X	
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				

St. Cloud Technical College, St. Cloud, MN

Activity Type	Ongoing	FY 2005	Planned	Quantifiable Data Included?
1. Absorbents				
2. Adhesives				
3. Air Quality, CFCs	X			
4. Antifreeze				
5. Audits				
6. Automotive Fuels				
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			
14. Energy – Production				
15. Groundwater Wells	X			
16. Heavy Metals		X		
17. HVAC, Indoor Air Quality	X			
18. Ice Control, Sanding	X			
19. Laboratory	X			
20. Landscaping	X			
21. Materials Exchange				
22. Office Supplies				
23. Oil, Oil Filters,	X			
24. Paints, Coatings, Stripping	X			
25. Parts Cleaning	X			
26. Personal Care Products				
27. Pesticides, Fertilizers	X			
28. Policy Statement	X			
29. Printing				
30. Procurement				
31. Remanufactured Parts				
32. Tanks				
33. Technical Support	X			
34. Tires	X			
35. Water Treatment and Conservation				
36. Other	X			

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

Activity Type	Ongoing	FY 2005	Planned	Quantifiable Data Included?
1. Absorbents			X	none
2. Adhesives				
3. Air Quality, CFCs				
4. Antifreeze				
5. Audits				
6. Automotive Fuels			X	none
7. Automotive Maintenance				
8. Batteries				
9. Cleaning Supplies			X	none
10. Commuting and Transportation				
11. Education, Communications and Training	X			none
12. Electronics				
13. Energy -Use			X	none
14. Energy – Production			X	none
15. Groundwater Wells				
16. Heavy Metals				
17. HVAC, Indoor Air Quality			X	none
18. Ice Control, Sanding				
19. Laboratory				
20. Landscaping			X	none
21. Materials Exchange				
22. Office Supplies				
23. Oil, Oil Filters,				
24. Paints, Coatings, Stripping				
25. Parts Cleaning			X	none
26. Personal Care Products				
27. Pesticides, Fertilizers				
28. Policy Statement				
29. Printing				
30. Procurement	X			none
31. Remanufactured Parts				
32. Tanks				
33. Technical Support				
34. Tires				
35. Water Treatment and Conservation				
36. Other				

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

Activity Type	Ongoing	FY 2005	Planned	Quantifiable Data Included?
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	X			
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	X			
31. Remanufactured Parts				
32. Tanks				
33. Technical Support				
34. Tires				
35. Water Treatment and Conservation				
36. Other				

Northland Community and Technical College

Activity Type	Ongoing	FY 2005	Planned	Quantifiable Data
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				Included?
1. Absorbents	X		X	No
2. Adhesives				
3. Air Quality, CFCs	X			No
4. Antifreeze				
5. Audits			X	
6. Automotive Fuels	X			
7. Automotive Maintenance	X			
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			
14. Energy – Production				
15. Groundwater Wells				
16. Heavy Metals				
17. HVAC, Indoor Air Quality	X			
18. Ice Control, Sanding	X			
19. Laboratory				
20. Landscaping	X			
21. Materials Exchange				
22. Office Supplies	X			
23. Oil, Oil Filters,	X			
24. Paints, Coatings, Stripping	X			
25. Parts Cleaning	X			
26. Personal Care Products	X			
27. Pesticides, Fertilizers	X			
28. Policy Statement			X	
29. Printing				
30. Procurement	X			
31. Remanufactured Parts				
32. Tanks	X			
33. Technical Support				
34. Tires	X			
35. Water Treatment and Conservation	X			
36. Other				

Mesabi Range Community & Technical College

Activity Type	Ongoing	FY 2005	Planned	Quantifiable Data
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				Included?
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				
11. Education, Communications and Training	X			
12. Electronics				
13. Energy -Use				
14. Energy – Production				
15. Groundwater Wells				
16. Heavy Metals				
17. HVAC, Indoor Air Quality	X new 2004			
18. Ice Control, Sanding	X			
19. Laboratory				
20. Landscaping				
21. Materials Exchange				
22. Office Supplies				
23. Oil, Oil Filters,				
24. Paints, Coatings, Stripping	X			
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				

Central Lakes College, Brainerd and Staples.

Activity Type	Ongoing	FY 2005	Planned	Quantifiable Data Included?
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				
13. Energy -Use	X			
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,				
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				

Activity Type	Ongoing	FY 2005	Planned	Quantifiable Data Included?
1. Absorbents				
2. Adhesives				
3. Air Quality, CFCs				
4. Antifreeze				
5. Audits				
6. Automotive Fuels	X		X	First E-85 vendor in FF
7. Automotive Maintenance				
8. Batteries				
9. Cleaning Supplies	X			
10. Commuting and Transportation		X		Travel reduction by more electronic meeting
11. Education, Communications and Training				
12. Electronics	X			
13. Energy -Use			X	Reduction of heating day by one hour
14. Energy – Production				
15. Groundwater Wells				
16. Heavy Metals				
17. HVAC, Indoor Air Quality				
18. Ice Control, Sanding	X			
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				

Activity Type	Ongoing	FY 2005	Planned	Quantifiable Data Included?
1. Absorbents				
2. Adhesives				
3. Air Quality, CFCs				
4. Antifreeze				
5. Audits				
6. Automotive Fuels	X	X	X	Gallons purchased
7. Automotive Maintenance				
8. Batteries				
9. Cleaning Supplies				
10. Commuting and Transportation	X	X	X	Reduction in vehicle use
11. Education, Communications and Training				
12. Electronics				
13. Energy –Use	X	X	X	Reduction in usage
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				
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32. Tanks				
33. Technical Support				
34. Tires				
35. Water Treatment and Conservation				
36. Other				

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