



SUMMARY REPORT

JANUARY 1 THROUGH DECEMBER 31, 1999

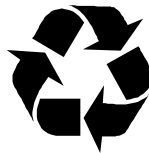
THE MICHIGAN BUSINESS POLLUTION PREVENTION PARTNERSHIP



THE MBP3 SUMMARY REPORT FOR 1999



To become a member, simply logon to the MBP3 website at:
<http://www.deq.state.mi.us/ead/p2sect/mbp3/>
or call the Environmental Assistance Center
1-800-662-9278



John Engler, Governor

Russell J. Harding, Director

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PREFACE

WHAT IS POLLUTION PREVENTION?

Pollution prevention (or P2) is the reduction or elimination of discharges or emissions to the environment. This includes all pollution: hazardous and non-hazardous, regulated and non-regulated, across all media, and from all sources. Pollution prevention can be accomplished by eliminating or reducing the generation of wastes at their source (source reduction) or by using, reusing, or reclaiming wastes once they are generated.

PROGRAM OVERVIEW

The Michigan Business Pollution Prevention Partnership (MBP3) is a voluntary, non-regulatory pollution prevention (P2) program open to all Michigan entities including; businesses (single facilities and corporations), institutions, municipalities, and associations. The MBP3 encourages Michigan entities to apply creative and innovative, cost-effective techniques for reducing waste at the source. In addition, the voluntary nature of the MBP3 provides an opportunity to demonstrate that pollution prevention is being voluntarily initiated without regulatory mandates and/or enforcement activities.

The MBP3 program was originally developed by business for business but has evolved into a pollution prevention program encompassing all Michigan entities, regardless of size, which are serious about initiating or expanding their P2 programs and want to receive recognition for their efforts. An added benefit to facilities that participate in the MBP3, is that they satisfy the "P2 Program" criterion established under the Clean Corporate Citizen (C3) program.

By working with trade and professional associations, the MBP3 has been able to increase its marketing arm, gain program credibility, and continue to enhance the program to meet the needs of all prospective members. Questions or comments regarding MBP3 or this report should be directed to **Jeff Spencer, MBP3 Coordinator, at 517-241-5719, or by e-mail at spencejl@state.mi.us.**

CHAPTER 1 EXECUTIVE SUMMARY

YEAR IN REVIEW

The MBP3 continues to attract a diverse range of businesses, associations, and municipal organizations as the third year of registration comes to a close. New registrations are received at a pace of about three per month. Noteworthy new partners include the first farm, Sunshine Prairie Farm; the first corrugated and solid fiber box manufacturer, Georgia-Pacific Corporation; several additional electric utilities; and a number of additional automotive manufacturing facilities.

There are 99 registered MBP3 partners (as of December 31, 1999), which is a 26% increase over 1998 membership. A total of 78 partners submitted their annual reports for calendar year 1999. The annual reports summarize their goals for 1999, progress toward goal achievement, and a set of goals for calendar year 2000. The remaining partners (those not required to submit an annual report due to their registration date) submitted their P2 goals for 2000.

MBP3 TECHNICAL, MARKETING AND COMMUNICATION WORK GROUP

Seventeen members, with expertise in pollution prevention, participate in this work group.

*MDEQ-EAD
American Electric Power
Capitol Group*

*Wacker Silicones
Ford Motor Company
Small Business Assoc. of Michigan
Dell Engineering
Herman Miller
Environmental Risk Managers*

Michigan Environmental Council

*General Motors
Michigan Chemical Council
Pharmacia & Upjohn
BASF Corporation
DaimlerChrysler Corporation
WES Corporation
Consumers Energy
Michigan Institute of Laundry and Drycleaners*

The MBP3 work group was established to help facilitate information exchange among members, develop confidence in the effectiveness of the program, establish an approachable rapport with the Department of Environmental Quality, and assist in public outreach. The interaction between the project manager, the working committee and the partnership is crucial for the continued success of the MBP3 program. The formulation of new ideas and strategies continue to promote the program within a variety of new expanding areas including; marinas, municipalities, county and township governments, academic institutions, and others.

CHAPTER 2

MBP3 PARTNERS' GOALS AND RESULTS

The MBP3 allows each business the choice of developing P2 goals that are the most cost-effective and technically feasible for their operations. By allowing each MBP3 partner flexibility in establishing their P2 goals, coupled with simplified reporting requirements, the program enables more businesses to join.

NOTABLE ACCOMPLISHMENTS OF MBP3 PARTNERS

While all partner goals are laudable, the following table displays a few notable accomplishments of select MBP3 partners for 1999:

PARTNER NAME	1999 POLLUTION PREVENTION ACCOMPLISHMENTS
American Electric Power-Nuclear Generation	Reduced used oil by 62% and radioactive used oil by 53%.
Coldwater Board of Public Utilities	Recycled 24,504 gallons of used oil; 1,695 gallons of antifreeze; 5,348 lbs of batteries; 1,400 utility poles.
Consumers Energy – Adrian	Reused 110 wooden reels and initiated a plastic reels system as well as an innovative “reel-less” system.
DENSO Manufacturing	Reduced VOC emissions by 59%. Recycled 955,059 lbs of plastics; and 4,153,116 lbs of scrap metal.
Detroit Edison Company	Recycled 123,540 lbs. cardboard; 4,435,000 lbs. Ferrous metal; and 5,070,277 lbs. non-ferrous metal.
DuPont Automotive	Reused 100% of organic solvent and pigment blend resulting in a 580,000 lbs reduction in waste generation.
Eaton Corporation	Reduced emissions by 95% in the Chemical Clean process; reduced Ferric Chloride usage by 10,000 lbs.
Ford Motor Company-New Product Center	Recycled 495 gallons of solvents; 1,800 gallons of antifreeze; 1,150 lbs batteries; 3,657 lbs used oil filters.
Genesys Health System	Reduced medical waste by 122,824 lbs per year. Recycled 3,236 fluorescent lamps; 3,700 lbs of batteries.
Great Lakes Gas Transmission Co.	Reduced hazardous waste by 45%; recycled 450 lbs of Ni-Cd batteries and 80 tons of paper, cardboard and wood.
Hemlock Semiconductor Corp.	52% reduction in HCl emissions; reduced waste solvent by 59% and reduced solid waste by 75%.
Herman Miller	Reduced solid waste by 70%; recycled sawdust waste; decreased energy usage per unit.
Knoll, Inc.	Reduced total VOCs by 15,720 lbs. Recycled fabric; plastic; aluminum; steel; batteries; and powdercoat paint.
March Coatings, Inc.	Eliminated the use of hydrochloric acid, reduced caustic soda from 10,800 to 2,700 gallons.

CHAPTER 3

MBP3 PROGRAM ASSESSMENT

OVERVIEW OF PROGRAM SERVICES

The MBP3 offers businesses the opportunity for positive public outreach and community relations and provides for recognition of their commitment to undertake voluntary pollution prevention activities at their facility. A sample press release outlines the pollution prevention partnership and its related activities, and allows the partner the opportunity to promote their membership in the MBP3 to their community.

The RETAP program is a good example of a technical assistance program that is available through the Department of Environmental Quality. Over 260 assessments have been conducted in Michigan since the beginning of the pilot program in 1994. Businesses receive a confidential report that identifies waste reduction options. The recommendations, specific for the facility, may include options to improve process or energy efficiency, reduce liability, or decrease disposal costs. The MBP3 anticipates an increase in pollution prevention success stories among its membership that take advantage of the benefits that RETAP assessments have to offer. Another assistance program that is actively promoted through the MBP3 is the Small Business P2 Loan Program. The P2 Loan Program is relatively new, beginning in January of 2000. Any businesses participating in the loan program that are not partners with MBP3 will be encouraged to join the program.

PLANS FOR PROGRAM ENHANCEMENT

- ***MBP3 ANNUAL REPORT FORMS***

MBP3 Annual Report forms have been evaluated for improvements. Future plans are underway to enhance these sample report forms, as well as strongly encourage partners to utilize the report format to increase uniformity in reporting partners' achievements on their P2 goals. The form is currently being converted into an electronic form for inclusion onto the MBP3 website. This will allow the user to complete the form and submit from any personal computer. This point and click technology is being utilized to create another avenue for annual report submittal, which should make the process easier.

THE MBP3 SUMMARY REPORT FOR 1999

• **MBP3 INTERNET SITE**

Enhancements have been and will continue to be made to the MBP3 Homepage located at: www.deq.state.mi.us/ead/p2sect/mbp3. Some of the improvements include:

- Additional hotlinks to MBP3 partner homepages. Partners with Internet homepages are encouraged to have their respective homepage address placed on the MBP3 Website for quick access.
- As needed updates to the MBP3 Website "List of Partners."
- Environmental Assistance Division Publications will be posted to the MBP3 Homepage, as they become available.
- Links to case studies developed through various partnerships, including MBP3, will be posted as they are made available.
- An on-line forms section will include both the registration form and the annual report form. This will allow current members as well as perspective members to simply log on to the MBP3 website and fill out either form and submit with the click of a button. This will reduce the amount of paper being generated within the program and save the members time and money associated with filling out and mailing/faxing of these documents.
- An email distribution list to update members about new publications, workshops, etc.

MBP3 MARKETING STRATEGIES

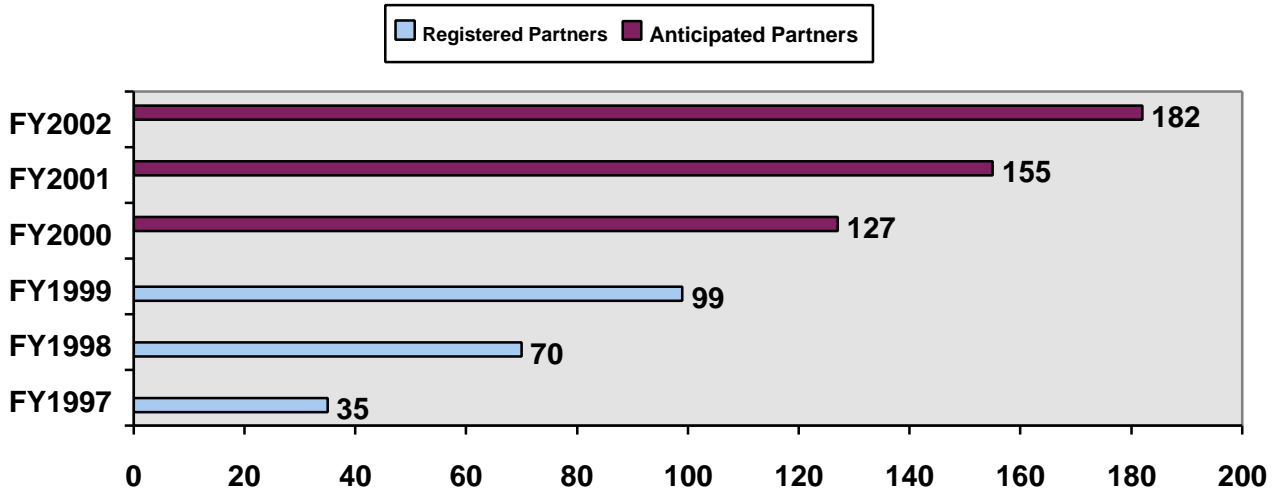
Various activities were conducted throughout the year to promote the MBP3 to different industry sectors, trade associations, or other forums. The following is a list of formal presentations and mailings made during calendar year 1999:

- Health Care P2 Strategies – Michigan Hospitals Association (March 10, 1999, at the Hilton, Novi, MI);
- 55th Annual Educational Conference – Michigan Environmental Health Association (March 10-12, 1999, at the Bavarian Inn, Frankenmuth, MI);
- General Motors, Regional Environmental Meetings (April 21 and June 16, 1999);
- 1999 Michigan Safety Conference (April 20, 1999, at the Lansing Center, Lansing, MI);
- 3rd Annual Spring Fling – Michigan Association of Environmental Professionals (May 6, 1999, at Frankenmuth, MI);
- Lansing Environmental Safety Association meeting (August 5, 1999, in Lansing, MI);
- 1999 Summer Meeting – Great Lakes Regional P2 Roundtable (August 10-12, 1999, at the Park Place Hotel in Traverse City, MI).

MBP3 – Trend Projections

The following graph displays the number of MBP3 partners registered for calendar years 1997, 1998, and 1999, in addition to projections based on current trends for calendar years 2000, 2001, and 2002.

MBP3 Registration Trend Projections



Based on average growth rates of 28 new partners per 12-month cycle, trend projections would indicate registered partners to grow to 155 by the end of 2001, and to 182 by the end of 2002. Our goal is to increase the yearly membership applications by an average of 20% over the next five years. This would establish a membership of 296 by the year 2005.

OTHER RELATED ACTIVITIES

CLEAN CORPORATE CITIZEN (C3) PROGRAM

As registration numbers grow for the MBP3, many MBP3 partners actively pursue designation under the C3 Program. This unique program recognizes environmental excellence and provides participation incentives for companies, municipalities, and institutions who are designated "C3." Clean Corporate Citizens who voluntarily participate in this program receive public recognition and become eligible for benefits that provide greater flexibility in their permitting operations and shorten the waiting period to receive necessary permits.

THE MBP3 SUMMARY REPORT FOR 1999

The following MBP3 partners are pursuing/have achieved designation under the C3 Program:

FACILITY	STATUS
Delphi-E Grand Rapids, Grand Rapids, Kent County	Designated C3 on 9/19/97. Annual re-designation on 2/8/00.
Baker Furniture Holland, Ottawa County	Designated C3 on 5/1//98. Annual re-designation on 6/26/00.
J. R. Whiting Plant - Consumers Energy Erie, Monroe County	Designated C3 on 5/7/98. Annual re-designation on 6/30/00.
Knoll, Incorporated - Grand Rapids Manufacturing Facility Grand Rapids, Kent County	Designated C3 on 7/24/98. Annual re-designation on 10/02/00.
Presque Isle Power Plant - Wisconsin Electric Power Co. Marquette, Marquette County	Designated C3 on 10/20/98. Annual re-designation on 3/7/00.
Consumers Energy - Parnall Road Office Complex Jackson, Jackson County	Designated C3 on 12/11/98. Annual re-designation on 3/7/00.
Denso Manufacturing Michigan Inc. Battle Creek, Calhoun County	Designated C3 on 12/18/98. Annual re-designation on 3/15/00.
DuPont Mount Clemens Plant Mount Clemens, Macomb County	Designated C3 on 2/2/99. Annual renewal under review.
Wacker Silicones Corporation Adrian, Lenawee County	Pursuing C3 designation
J H Campbell Electric Generating Plant – Consumers Energy West Olive, Ottawa County	Pursuing C3 designation
Sheldon Road Plant - Visteon Automotive Systems Plymouth, Wayne County	Designated C3 on 7/19/99. Annual re-designation on 8/24/00.
TAC Manufacturing Jackson, Jackson County	Designated C3 on 10/5/99.
Automatic Transmission New Product Center - Ford Motor Company Livonia, Wayne County	Designated C3 on 11/10/99.
Romeo Engine - Ford Motor Company Romeo, Macomb County	Designated C3 on 11/23/99
Alpena Compressor Station - Michigan Consolidated Gas Company Harrison, Clare County	Designated C3 on 12/6/99
DeWitt Barrels, Incorporated Grand Rapids, Kent County	Designated C3 on 10/13/99.
T.E.S. Filer City Station Filer City, Manistee County	Designated C3 on 12/22/99.
March Coatings, Inc. Brighton, Livingston County	Designated C3 on 1/28/00.
SERMAcoat, L.L.C. Brighton, Livingston County	Designated C3 on 1/28/00.
Livonia Transmission Plant - Ford Motor Company Livonia, Wayne County	Pursuing C3 designation
Fermi 2 Power Plant - Detroit Edison/ DTE Energy Newport, Monroe County	Designated C3 on 8/1/00.
Warren Transmission Plant - General Motors Powertrain Warren, Macomb County	Designated C3 on 8/18/00.
Mark IV Automotive - Big Rapids Facility Big Rapids, Mecosta County	Designated C3 on 7/21/00.
Demmer Corporation – Delta Plant Lansing, Eaton County	Pursuing C3 designation

THE MBP3 SUMMARY REPORT FOR 1999

CHAPTER 4 – MBP3 PARTNERS (AS OF DECEMBER 1999)

Organization Name	SIC Code	Business Type	County
Aeroquip Corporation	3492	Fluid Power Valves and Hose Fittings	Jackson
Alpha Plastics, Inc.	3089	Plastic Products	Gratiot
American Electric Power-Nuclear Generation	4911	Electric Utility	Berrien
Amway Corporation	2841	Soaps, Detergents, Cleaning Preparations	Kent
ANR Pipeline Company	4922	Natural Gas Transmission	Wayne
Associated Petroleum Industries of Michigan	8611	Business Association	Ingham
AutoAlliance International, Inc.	3711	Auto Assembly	Wayne
Baker Furniture	2511	Household Furniture	Ottawa
Bear Truss Company	2439	Wood Manufacturing	Gratiot
Belle Maer Harbor	4493	Marina	Macomb
Betz Industries	3321	Gray and Ductile Iron Foundry	Kent
Brennan Marine Sales	4493	Marina	Bay
Brownrigg Companies, Ltd.	6411	Insurance	Oakland
Capital City Associates	8742	Management Consulting Services	Ingham
Capitol Group Governmental Consultants	8742	Management Consulting Services	Kent
Chemical Technologies, Inc.	2841	Soaps and Other Detergents	Jackson
City of Wyoming - Clean Water Plant	4952	Municipal Wastewater Treatment Facilities	Kent
Coldwater Board of Public Utilities	9631	Utility Regulator	Branch
Consumers Energy - Adrian Service Center	4939	Utility	Lenawee
Consumers Energy - BC Cobb Plant	4939	Utility	Muskegon
Consumers Energy - JH Campbell Complex	4939	Utility	Ottawa
Consumers Energy - JR Whiting Plant	4939	Utility	Monroe
Consumers Energy - Parnall Rd. Office Complex	4939	Utility	Jackson
Delphi Automotive Systems	3714	Motor Vehicle Parts and Accessories	Kent
DENSO Manufacturing Michigan, Inc.	3714	Motor Vehicle Parts and Accessories	Calhoun
Detroit Edison Company	4911	Electric Utility	Wayne
DeWitt Barrels	7699	Repair Shops and Related Services	Kent
Donnelly Corporation	3714	Motor Vehicle Parts and Accessories	Ottawa
Dow Corning Midland Plant	2819	Industrial Inorganic Chemicals	Midland
DuPont Automotive, Mt. Clemens Site	2851	Chemicals	Macomb
Eagle Ottawa - Rochester Hills, Ltd.	3111	Leather Tanning and Finishing	Oakland
East Jordan Iron Works	3321	Gray and Ductile Iron Foundry	Charlevoix
Eco Waste Solutions, LLC	4953	Refuse Systems	Kalamazoo
Electrical Design and Control	3625	Relays and Industrial Controls	Oakland
Elf Atochem North America, Inc.	2851	Chemicals	Wayne
Envirologic Technologies, Inc.	8711	Engineering Services	Kalamazoo
ESCO Company Limited Partnership	2865	Industrial Organic Chemicals	Muskegon
Ford Motor Company - Automatic Transmission	8734	Testing Laboratories	Wayne
Ford Motor Company - Livonia Transmission	3714	Motor Vehicle Parts and Accessories	Wayne
Foundry Association of Michigan	8611	Business Association	Ingham
General Motors - Pontiac East Assembly Plant	3711	Motor Vehicle Passenger Car Bodies	Oakland
General Motors Powertrain - Saginaw Malleable	3321	Automotive Related - Foundry Gray and Ductile Iron	Saginaw
General Oil Company, Inc.	2992	Oil Reclamation	Wayne
Genesys Health System	8011	Health Services	Genesee
Georgia-Pacific Corporation - Milan	2653	Corrugated and Solid Fiber Boxes	Washtenaw
Great Lakes Gas Transmission Company	4922	Natural Gas Transmission	Wayne
Haworth, Inc.	2520	Office Furniture	Allegan
Hazekamp Meats	5421	Meat Processing	Muskegon
Hemlock Semiconductor	3339	Primary Smelting/Refining Nonferrous Metals	Saginaw
Herman Miller, Inc.	2521	Office Furniture	Ottawa
Huron, Inc.	3499	Fabricated Metal Products	Sanilac
International Foam and Trim	3086	Plastic Foam Products	Jackson

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THE MBP3 SUMMARY REPORT FOR 1999

Organization Name	SIC Code	Business Type	County
Irwin Seating Company	2531	Public Building and Related Furniture	Kent
Jan's Professional Drycleaners	7216	Drycleaning	Genesee
Knoll Inc.	2511	Household Furniture	Kent
Magni Industries, Inc.	2851	Paints, Varnishes, Laquers, Allied Products	Wayne
March Coatings, Inc.	3479	Paint Coating	Livingston
Marine Pollution Control Corporation	1799	Environmental Services	Wayne
Mark IV Automotive	3714	Motor Vehicle Parts and Accessories	Mecosta
Mayco Plastics, Inc.	3089	Plastic Products	Macomb
McCormick Enterprises, Inc.	1629	Construction	Barry
Michigan Boating Industries Association	8611	Business Association	Wayne
Michigan Chemical Council	8611	Business Association	Ingham
Michigan Consolidated Gas Company	4923	Natural Gas Transmission and Distribution	Wayne
Michigan Institute of Laundering and Drycleaning	8611	Business Association	Ingham
Michigan Seat Company	3524	Lawn and Garden Tractors, Plastics Foam Products	Jackson
Mid-West Instrument	3823	Industrial Instruments	Macomb
Parke-Davis	2834	Pharmaceutical Preparations	Ottawa
Pharmacia & Upjohn, Inc.	2834	Pharmaceutical Preparation	Kalamazoo
Pioneer Foundry Company, Inc.	3321	Gray and Ductile Iron Foundry	Jackson
RMT	8711	Engineering Services	Washtenaw
Ronningen Research & Development Co.	8731	Commercial Physical and Biological Research	Kalamazoo
Sackner Products	2396	Automotive Trimmings	Kent
SERMAcoat, L.L.C.	3479	Paint Coating	Livingston
Siemens Automotive Corporation	3714	Motor Vehicle Parts and Accessories	Oakland
Solutia, Inc.	2821	Chemicals	Wayne
Sparrow Health System	8399	Health Care	Ingham
SQS, Inc.	4212	Local Trucking w/o Storage	Wayne
Steelcase, Inc.	2500	Furniture and Fixtures	Kent
Sunshine Prairie Farm	8811	Farm	Barry
T.E.S. Filer City Station	4911	Electrical Services	Manistee
TAC Manufacturing, Inc.	3086	Plastic Foam Products	Jackson
Taplin Environmental Contracting Corporation	1799	Environmental Services	Kalamazoo
The Traverse Group	8742	Management Consulting Services	Washtenaw
TriMedia Consultants	8731	Commercial Physical and Biological Research	Marquette
United States Postal Service, Lansing Branch	4311	Postal Service	Ingham
Visteon Automotive Systems - Sheldon Road Plan	3714	Motor Vehicle Parts and Accessories	Wayne
Wacker Silicones Corporation	2821	Plastic Mat., Synthetic Resins & Rubber	Lenawee
Wisconsin Electric Power - Presque Isle Plant	4911	Electric Utility	Marquette
Yamaha Musical Products	3931	Musical Instruments	Kent