



**Environmental Assistance Division**

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*The Michigan Business Pollution Prevention Partnership*

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*Annual Report  
September 1998*

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*“Preventing Pollution is the Best Solution,’ embodies the idea that it is better to eliminate waste at its source than to dispose, treat or release it to the air, water or land.”*

**Russell J. Harding, DEQ Director**  
(Message taken from Pollution Prevention Week 1998 letter)

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## **Preface**

### **Program Overview - What is the MBP3?**

The Michigan Business Pollution Prevention Partnership (MBP3) is a voluntary, pollution prevention (P2) program open to all Michigan businesses. The MBP3, established in September 1996, is a business-directed program developed by Michigan businesses and trade associations in partnership with the Department of Environmental Quality (DEQ). The program is a means to publicly recognize Michigan businesses, both large and small, which commit to and undertake voluntary P2 activities at their facilities. The partnership is based on the simple, but powerful, concept that it makes far more sense to reduce the generation of waste than it is to transport and treat it. The MBP3 encourages Michigan businesses to apply creative, cost-effective techniques to reduce waste and prevent the release of hazardous substances.

The MBP3 program is open to all Michigan businesses, regardless of size, who would like to initiate or expand their P2 programs and receive recognition for these efforts. To participate in the MBP3, businesses will submit a statement of commitment signed by an authorized company official. Participating businesses are asked to adopt a P2 policy, identify and commit to specific P2 goals, provide an annual summary of their progress, and share technological success stories on their P2 activities. In addition, business facilities that participate in the MBP3 meet the P2 criterion established under the Clean Corporate Citizens program.

The DEQ has actively promoted P2 in the business community through various sector-specific partnerships targeting the automotive, lithographic printers, pulp/paper, and agricultural industries. The MBP3 built upon the success of this approach by encouraging previously unrepresented businesses to engage in P2 efforts. By working with business trade associations to promote P2, the Environmental Assistance Division (EAD) was able to leverage resources, gain credibility, and customize the program to meet the needs of the business community.

Management activities include program marketing efforts, processing registration forms, P2 goals and reports, providing P2 assistance and incentives, recognizing participants, and summarizing the MBP3 achievements and progress in an Annual Report. In addition, the DEQ will be responsible for undertaking outreach efforts to promote the program and further the objectives of the DEQ P2 Strategy.

The common thread among all participating companies, both large and small, is the power of voluntary commitment. The MBP3 is an opportunity to demonstrate that waste reduction, in its various forms, is being accomplished without new regulation.

Anyone with questions or comments on the MBP3 program or this report should contact: Mr. Steve Kulesia, MBP3 Coordinator, at 517-373-6565, or by e-mail at [kulesias@state.mi.us](mailto:kulesias@state.mi.us).

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## **Chapter 1 - Executive Summary**

### **Year In Review**

Initial expectations for the program were high, but registration for the first year has indicated some program improvements may need to be made. Overall, the first full year of administering the MBP3 has been met with success. Based on recent registrations received, new partners are joining at a pace of about five per month.

At present time there are 67 registered MBP3 partners, of which 18 committed to 1997 as their first year for reporting on P2 accomplishments. Each of these 18 MBP3 partners submitted their annual reports, summarizing their achievements for 1997, and establishing new P2 goals for 1998. Most of the remaining partners have submitted their P2 goals for 1998, although a few who recently joined may choose to submit their goals starting in 1999. The 67 registered MBP3 partners represent a wide range of Michigan industries, both in terms of size and industry type (see Chapter 2). This represents a growing commitment by small, medium and large businesses to join the other successful participants in the MBP3.

In addition to the increase in new MBP3 partners, it should be noted that several previously unrepresented industry sectors are now part of the MBP3. These include the manufacturing of plastic products, health services, motor vehicle parts, boat building, and household furniture.

### **MBP3 Technical, Marketing and Communication Work Group**

The MBP3 is guided by the efforts of the Technical, Marketing and Communications Work Group, which acts as the principal steering committee for the program. Fifteen members, representing various businesses and associations with expertise in P2, participate in the work group. The MBP3 work group was established to help facilitate information exchange, develop confidence in the effectiveness of the program, and assist in marketing the program to the business community. The work group meets regularly, usually once every two months, to discuss various issues affecting the MBP3. In addition, staff of the EAD serve as facilitators during meetings for the work group. Action plans are then developed based on feedback from the work group on a variety of issues. Follow-up is provided during subsequent work group meetings as to the status of these action plans.

## Chapter 2 - MBP3 Partners

The following is a list of current MBP3 partners (as of 7/98) including the type of business and county the facility is located in:

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 Bumper and Manufacturing Co.	3714	Motor Vehicle parts and Accessories	Ionia
American Electric Power-Nuclear Generation	4911	Electric Utility	Berrien
Amoco Petroleum Products	5171	Petroleum Bulk Stations and Terminals	Wayne
Amway Corporation	2841	Soaps, Detergents, Cleaning Preparations	Kent
Associated Petroleum Industries of Michigan	8611	Trade Association	Ingham
AutoAlliance International, Inc.	3711	Auto Assembly	Wayne
Baker Furniture	2511	Wood Household Furniture	Ottawa
BASF Corporation, Detroit Site	2851	Paints, Varnishes, Lacquers, Enamels	Wayne
BASF Corporation, Wyandotte Site	2851	Chemicals	Wayne
Bear Truss Company	2439	Wood Manufacturing	Gratiot
Betz Industries	3321	Gray and Ductile Iron Foundry	Kent
Brownrigg Companies, Ltd.	6411	Insurance	Oakland
Capital City Associates	8742	Consultants	Ingham
Capitol Group Governmental Consultants	8742	Consultants	Kent
Coldwater Board of Public Utilities	9631	Utility	Branch
Colonial Press, Inc.	2752	Commercial Printer	Jackson
Consumers Energy - JH Campbell Complex	4939	Utility	Ottawa
Consumers Energy - JR Whiting Plant	4939	Utility	Monroe
Consumers Energy - Parnall Road Office Complex	4939	Utility	Jackson
DENSO Manufacturing Michigan, Inc.	3714	Motor Vehicle Parts and Accessories	Calhoun
Detroit Edison Company	4911	Utility	Wayne
Donnelly Corporation	3714	Motor Vehicle Parts and Accessories	Ottawa
Dow Corning Midland Plant	2819	Chemicals	Midland
DuPont Automotive, Mt. Clemens Site	2851	Chemicals	Macomb
Eagle Ottawa Leather Company	3111	Leather Tanning and Finishing	Ottawa
East Jordan Iron Works	3321	Gray and Ductile Iron Foundry	Charlevoix
Elf Atochem North America, Inc.	2851	Chemicals	Wayne
ESCO Company Limited Partnership	2865	Industrial Organic Chemicals	Muskegon
Foundry Association of Michigan	8611	Trade Association	Ingham
Four Winns, Inc.	3732	Boat Building and Repairing	Wexford
General Motors Powertrain-Saginaw Malleable Plant	3321	Automotive	Saginaw
Genesys Health System	8011	Health Services	Genesee
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
Inland Waters Pollution Control, Inc.	1799	Contracting	Wayne
Irwin Seating Company	2531	Public Building and Related Furniture	Kent
Knoll Inc.	2511	Office Furniture	Kent
Marelco Power Systems, Inc.	3612	Power, Distribution, Specialty Transformers	Livingston
Marine Pollution Control Corporation	1799	Environmental Services	Wayne
Mastercraft Leather Company	3111	Leather Tanning and Finishing	Oakland
Mayco Plastics, Inc.	3089	Plastic Products	Macomb
McCormick Enterprises, Inc.	1629	Construction	Barry
Michigan Chemical Council	8611	Trade Association	Ingham
Michigan Coalition for Clean Water	8611	Trade Association	Ingham
Michigan Seat Company	3524	Lawn and Garden Tractors, Plastics Foam Products	Jackson
Mid-West Instrument	3823	Industrial Instruments	Macomb
MWP Inc. - Pleuco Technologies Division	3499	Fabricated Metal Products	Ottawa
Parke-Davis	2834	Pharmaceutical	Ottawa

Organization Name	SIC Code	Business Type	County
Pharmacia & Upjohn, Inc.	2834	Pharmaceutical	Kalamazoo
Pioneer Foundry Company, Inc.	3321	Iron and Steel Foundry	Jackson
RMT	8711	Engineering Services	Washtenaw
Sackner Products	2396	Automotive Trimmings	Kent
Siemens Automotive Corporation	3714	Motor Vehicle Parts and Accessories	Oakland
Solutia, Inc (Monsanto)	2821	Chemicals	Wayne
Spectrum Health East	8011	Health Services	Kent
SQS, Inc.	4212	Local Trucking w/o Storage	Wayne
T.E.S. Filer City Station	4911	Electrical Services	Manistee
TAC Manufacturing , Inc.	3086	Plastic Foam Products	Jackson
The Traverse Group	8742	Environmental Consultant	Washtenaw
TriMedia Consultants	8731	Research, Testing & Development Services	Marquette
United States Postal Service, Lansing Branch	4311	Postal Service	Ingham
Wacker Silicones Corporation	2821	Plastic Mat., Synthetic Resins & Rubber	Lenawee
Wisconsin Electric Power Company - Presque Isle Plant	4911	Electric Services	Marquette
Yamaha Musical Products	3931	Musical Instruments	Kent

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## **Chapter 3 - MBP3 Program Assessment**

### **Overview of Program Services**

The MBP3 offers businesses the opportunity for positive public relations and recognition for their commitment to undertake P2 at their facility or corporation. Besides receiving a certificate of participation signed by the Governor and the Director of the DEQ, a business also is provided with a sample press release to publish in a local newspaper, outlining the business' P2 partnership and related activities.

Aside from the recognition received, a business that successfully undertakes P2 improves its ability to compete through improved operating efficiencies and decreased waste. This, in turn, translates directly into financial savings for the companies. A business also receives access to technical information and assistance from participating in the MBP3. This technology transfer enables partners to benefit from their achievements and, in turn, assist other businesses in the process.

In addition, for small- to medium-sized businesses with less than 500 employees, the services of the Retired Engineer Technical Assistance Program (RETAP) are available. The RETAP offers free, confidential, non-regulatory waste assessments for Michigan businesses that request their services. Businesses receive a written, confidential report which identifies waste reduction options which contain specific recommendations to save money, increase efficiency, reduce liability, cut disposal costs, and promote a positive public image.

### **Plans for Program Enhancement**

Various plans for program enhancements have been implemented during the year. A new, full-time staff person was hired to act as coordinator for the MBP3. This staff person's primary responsibilities include oversight and administration of the MBP3. This should enable continued advancement of the objectives of the MBP3.

The MBP3 is exploring the possibility of adding drycleaners/laundrerers to the program at the request of the Michigan Institute of Launderers and Drycleaners (MILD). Currently in the planning phase, the EAD may be adding a "drycleaner" component to the program, which will enable recognition for this industry sector. If this initiative is adopted, drycleaners will be able to receive recognition for their P2 activities, as well as utilizing technology transfer from other partners. Additional consideration is being given for specific outreach to other businesses as well.

Enhancements made to the Environmental Assistance Division MBP3 Website at:  
"[www.deq.state.mi.us/ead/p2sect/mbp3](http://www.deq.state.mi.us/ead/p2sect/mbp3)" included:

- ◆ Addition of hotlinks to MBP3 partner homepages. Partners with Internet homepages were encouraged to have their respective homepage address placed on the MBP3 Website for quick access.
- ◆ Evaluation of "electronic registration" process using the MBP3 Website.
- ◆ Quarterly updates to the MBP3 Website "List of Partners."

In addition, in order to recognize continuing participation in the MBP3, stickers were developed which denote the subsequent years that MBP3 partners are involved in the program. These stickers are provided to MBP3 partners after submittal of their first Annual Report.

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## **MBP3 Marketing Strategies**

Current activities to better market the MBP3 include enhanced outreach efforts through new EAD field staff hired this fiscal year. Part of the field staff's efforts will be devoted to promoting EAD P2 programs to the various industry sectors, as well as integrating P2 at the DEQ District Offices.

A speaker's bureau, composed of EAD staff and MBP3 participants, continues to make presentations at the various business associations and local chambers of commerce throughout the state. Articles describing the advantages of the MBP3 program for businesses are published in various newsletters and publications. Recently, an MBP3 article was published in the *Ann Arbor News* describing the benefits of P2, including results of an MBP3 partner's P2 efforts for 1997.

In addition, EAD staff are active in adding a component to the program for the fabricare industry. This new initiative will allow launderers and drycleaners a chance to be recognized for their efforts in P2 by becoming a MBP3 partner and meeting specific requirements, yet to be outlined.

## **Other Related Activities**

In the fall of 1997, a Michigan P2 Partners poster was developed and distributed. The poster provided recognition to all participants involved in four (4) of the DEQ's P2 partnerships, including MBP3. The EAD designed a second Michigan P2 Partners poster, which is slated to be available for distribution prior to National Pollution Prevention Week in September 1998.

Case Studies, which highlight success stories by MBP3 partners, are being solicited by EAD staff as a means of technology transfer, as well as providing recognition for the partners. These case studies will be developed on a continuing basis throughout the year. Any MBP3 partner who wishes to have a case study considered based on their individual P2 goals and subsequent results should contact Steve Kulesia, MBP3 Coordinator, at 517-373-6565.

## **Chapter 4 - MBP3 Partners Goals and Results**

### **MBP3 Partner Goals**

The MBP3 allows each business the choice of developing P2 goals which best suit the ability and needs of that business. By allowing each MBP3 partner flexibility in establishment of their P2 goals, the program enables more businesses to join. This important provision of the program, coupled with simplified reporting requirements, creates more incentive for potential partners to register with the MBP3.

In essence, there are no wrong or right P2 goals. Businesses may elect to choose one or more P2 goals, either quantitative (i.e., 20% reduction in the use of hazardous chemicals) or qualitative (i.e., establishment of an office waste recycling program). For businesses that need assistance formulating their P2 goals, EAD staff have developed a fact sheet which explains what constitutes a P2 goal, as well as giving various examples of P2 goals.

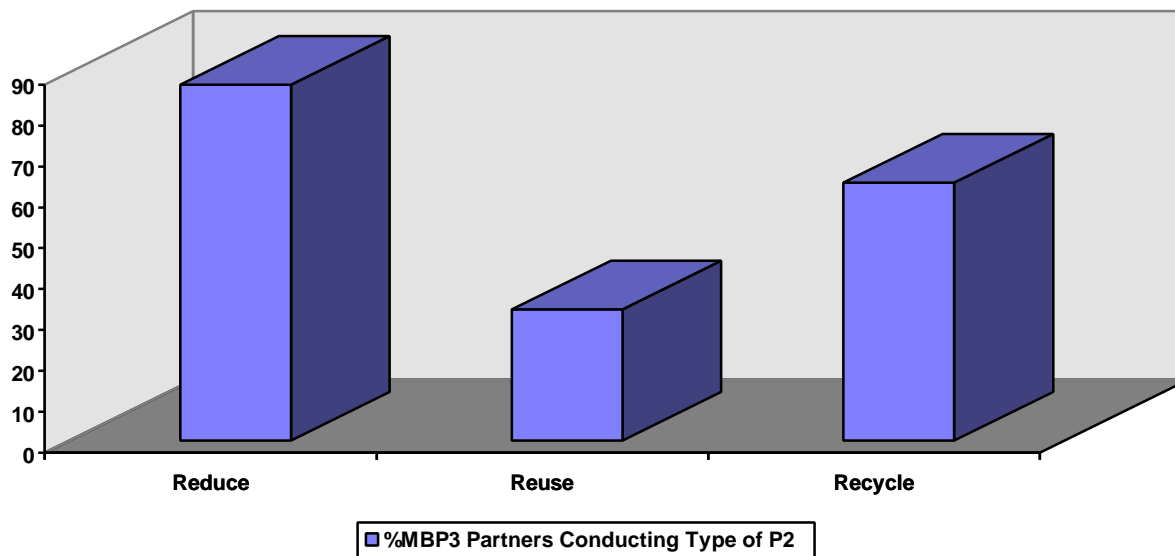
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The following chart displays the number of MBP3 partners (as a percentage of total partners)\* engaged in the three major forms of P2 categories: reduce, reuse and recycle. Based on a total of 53 MBP3 partners who have submitted their P2 goals, 88% chose reduce, 32% chose reuse and 62% chose recycle as a goal. \*Note, partners may have chosen goals representing all three categories.

**P2 Goals of MBP3 Partners by Category**



## **Results of Individual Annual Reports**

The following is a summary of various MBP3 partners' P2 accomplishments as outlined in their 1997 Annual Reports:

- ⇒ A chemical manufacturing company reported that SARA Title III, Section 313 emissions and transfers were reduced by 14% by the end of 1997 (base year of 1994 was used). Similarly, unit air toxic emissions were reduced 18% by the end of 1997. Unit hazardous waste generation, again using 1994 as a base year, was reduced 33% by the end of 1997. Being a pilot project, this facility shared their waste reduction successes with other facilities owned by the same company. They also continued to operate their paper, cardboard, metal and plastics recycling program.
- ⇒ One company, which manufactures musical instruments, reduced the volume of waste stripping chemicals from 1,265 gallons in 1996 to 880 gallons in 1997. Waste flammables were also reduced from 1,155 gallons in 1996 to 165 gallons in 1997. An on-site incinerator was sold and removed from the facility. In addition, the company found a vendor to accept some of their wood pallets for reuse.
- ⇒ A primary metal industry reported a decrease of 30% in SARA Title III, Section 313 emissions from 1996 to 1997. In addition, non-hazardous solid waste was reduced an average of 500 pounds per day (91 tons a year) by implementing a scrap polyethylene recycling program. Also, upgrades to an existing plant scrubber system resulted in 99+ % efficiency in operation, reducing emissions of hydrogen chloride to the air by >1,000 pounds per year.

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- ⇒ Another company, involved in the production of synthetic materials, reported a 33% reduction in hazardous waste generated in 1997 from 1996. This resulted in elimination of reporting requirements under SARA Title III due to a drop in hazardous waste generation to below the threshold level and a resulting decrease in off-site transfers to below 500 pounds annually.
  
- ⇒ An auto assembly industry recycled approximately 49,000 pounds of polyvinyl sheeting and polypropylene plastic in 1997. Plastic paint solvent emissions were reduced by 10.3% on a per unit produced basis (47 tons/year).
  
- ⇒ A leather tanning company reported recycling over 11,200 wood pallets and over 80 cubic yards of paper and cardboard in 1997. In addition, several tons of newspaper, glass, metal and plastic waste collected from employee households were recycled. Finally, approximately 10,000 tons of biosolid materials were composted on a local farming operation rather than discharging the waste to a landfill or incinerator.
  
- ⇒ A chemical manufacturer reported a 10% reduction in the generation of mercury containing waste on-site. Also, organo-chloride emissions were reduced a total of 95%. A reclamation program for spent batteries resulted in a 25% reduction in off-site disposal.