



Michigan Department of Environmental Quality

A MDEQ Report on the:

**Environmental Protection Bond Fund
Cleanup and Redevelopment Fund
Clean Michigan Initiative Bond Fund**



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<http://www.michigan.gov/deq>

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FOREWORD

This consolidated report provides information regarding the Michigan Department of Environmental Quality (MDEQ), State-Funded environmental programs. The report includes appropriations and expenditures from fiscal year (FY) 1989 through FY 2008. The intent is to provide a comprehensive report on Michigan's cleanup and environmental bond programs. The MDEQ intends to publish this report on an annual basis. This publication fulfills a number of related reporting obligations found in Part 201, Environmental Remediation; Part 195, Environmental Protection Bond Implementation; and Part 196, Clean Michigan Initiative Implementation; of the Natural Resources and Environmental Protection Act (NREPA), 1994 PA 451, as amended (Act 451), the Brownfield Redevelopment Financing Act, 1996 PA 381, as amended, and in the appropriation bill PA 121 of 2007.

ACRONYMS AND DEFINITIONS

Acronym	Definition
12a	Section 12a of Part 201 of Act 451
Act 381	Brownfield Redevelopment Financing Act, 1996 PA 381, as amended
Act 451	Natural Resources and Environmental Protection Act (NREPA), 1994 Public Act 451, as amended
AOC	Area of Concern (for Water Bureau projects) Administrative Order by Consent (for RRD projects)
APC	Approved Partial Closure
AST	Aboveground Storage Tank
AWM	Abandoned Well Management Grant Program
BEA	Baseline Environmental Assessment
BMPs	Best Management Practices
BRG	Brownfield Redevelopment Grant Program
BRL	Brownfield Redevelopment Loan Program
CAP	Corrective Action Plan
CLRS	Contaminated Lake and River Sediments Program
CMI	Clean Michigan Initiative
CNTS	Covenant Not to Sue
Contam	Contamination
CREP	Conservation Reserve Enhancement Program
CRF	Cleanup and Redevelopment Fund
CRP	Environmental Cleanup and Redevelopment Program
CWF	Clean Water Fund
cy	Cubic Yards
DCE	Dichloroethylene
DDT	Dichlorodiphenyltrichloroethane
DNAPL	Dense Non-aqueous Phase Liquid
DWP	Drinking Water Program
E&C	Emergency and Contingency Program
EA	Environmental Assessment
EECP	Environmental Education Curriculum Project
EPBF	Environmental Protection Bond Fund
EPF	Environmental Protection Fund
ESA	Environmental Site Assessment
ESSD	Environmental Science and Services Division
EXEC	Executive Division for the MDEQ
FAR	Final Assessment Report
FBI	Federal Bureau of Investigations
FOSS	Failing On-Site Septic Systems
Free Product	A regulated substance in a liquid phase that is <u>not</u> dissolved in groundwater
FS	Feasibility Study
GAP	Grant Application Package
GCAC	Groundwater Conservation Advisory Council
GCSP	Green Chemistry Support Program
GF	General Fund/General Purpose
GIS	Geographic Information System

Acronym	Definition
GLLA	Great Lakes Legacy Act
GSI	Groundwater Surface Water Interface
GVSU	Grand Valley State University
GW	Groundwater
HASP	Health and Safety Plan
HBB	Hexabromobenzene
Hg	Mercury
HHW	Michigan Household Hazardous Waste Collection Initiative
I/E	Information education activities
IAR	Initial Assessment Report
ISSCG	Illicit Storm Sewer Connection Grants Program
JFA	Joint Funding Agreement
LaMPs	Lakewide Management Plans Implementation Grants
LUST	Leaking Underground Storage Tank
MDA	Michigan Department of Agriculture
MDCH	Michigan Department of Community Health
MDEQ	Michigan Department of Environmental Quality
MDHS	Michigan Department of Human Services
MDIT	Michigan Department of Information Technology
MDLEG	Michigan Department of Energy, Labor and Economic Growth
MDMB	Michigan Department of Management and Budget
MDMVA	Michigan Department of Military and Veterans Affairs
MDNR	Michigan Department of Natural Resources
MDOC	Michigan Department of Corrections
MDOE	Michigan Department of Education
MDOT	Michigan Department of Transportation
MDSP	Michigan Department of State Police
MI	Michigan
MLGP	Municipal Landfill Cost-Share Grant Program
MRPPGP	Michigan Regional Pollution Prevention Grant Program
MSU	Michigan State University
MTBE	Methyl Tertiary Butyl Ether
MW	Monitoring Well
N/A	Not Available
NRC	Natural Resource Commission
NREPA	Natural Resources and Environmental Protection Act, 1996 PA 451, as amended
NSPCG	Nonpoint Source Pollution Control Grants
OGS	Office of Geological Survey
OM	Operation and Maintenance
P2	Pollution Prevention
PA 328	Part 195 of PA 451, the Environmental Protection Bond Fund, was established by PA 328 of 1988
PA	Public Act
PAH	Polynuclear Aromatic Hydrocarbons
Part 195	Part 195, Environmental Protection Bond Fund, of Act 451
Part 196	Part 196, Clean Michigan Initiative Bond Fund, of Act 451
Part 201	Part 201, Environmental Remediation, of Act 451
Part 213	Part 213, Leaking Underground Storage Tanks, of Act 451
Part 215	Part 215, Refined Petroleum Fund, of Act 451

Acronym	Definition
PBB	Polybrominated Biphenyls
PCB	Polychlorinated Biphenyls
PCE	Tetrachloroethylene
PHQW	Protecting High Quality Waters
PLP	Potentially Liable Party
RAPLMPIG	Remedial Action Plan and Lakewide Management Plans Implementation Grants
RAPs	Remedial Action Plans
RETAP	Retired Engineer Technical Assistance Fund
RFP	Request for Proposal
RI	Remedial Investigation
ROW	Road Right of Way
RPF	Refined Petroleum Fund
RR	Railroad
RRD	Remediation and Redevelopment Division
RRL	Revitalization Revolving Loan
RRLP	Revitalization Revolving Loan Program
SAG	Site Assessment Grant Program
SBPP	Small Business Pollution Prevention Assistance Revolving Loan Fund
Sed	Sediments
SFC	Superfund Cleanup
SRG	Site Reclamation Grant Program
SSCUF	State Sites Cleanup Fund
SSCUP	State Sites Cleanup Program
SVE	Soil Vapor Extraction System
SVOC	Semi-volatile Organic Compound
SWAP	Solid Waste Alternatives Program
TCE	Trichloroethylene
U.S. Army	United States Army
U.S. EPA	U.S. Environmental Protection Agency
U.S. Geological Survey	United States Geological Survey
U-M Flint	University of Michigan – Flint
UST	Underground Storage Tank
VOC	Volatile Organic Compound
VSPG	Voluntary Storm Water Permits Grants
WB	Water Bureau
WHMD	Waste and Hazardous Materials Division
WHPA	Well Head Protection Area
WQM	Water Quality Monitoring
WRG	Waterfront Redevelopment Grants Program
WUAWP	Water Use and Withdrawal Programs

PART ONE - ENVIRONMENTAL CLEANUP PROGRAM OVERVIEW

FUNDING SOURCES

In November 1988, Michigan voters approved Proposal C, an Environmental Bond Issue. This proposal authorized the Michigan Department of Environmental Quality (MDEQ), formerly the Michigan Department of Natural Resources (MDNR), to use \$660 million of general obligation bonds for environmental protection throughout Michigan. Part 195, Environmental Protection Bond Fund, of Act 451 provides for the specific use of these funds.

The Cleanup and Redevelopment Fund (CRF) was created by the July 1996 amendments to Part 201 of Act 451 to provide a permanent, ongoing funding mechanism for Michigan's environmental cleanup and redevelopment program. The funds included in the CRF consist of 80 percent of the state's share of annual unclaimed bottle deposit revenues and the transfer of Environmental Protection Bond Fund (EPBF) revenues appropriated in prior fiscal years to the MDEQ for solid waste alternative projects, pursuant to Section 19507 of Part 195 of Act 451.

In November 1998, Michigan citizens approved a \$675 million Clean Michigan Initiative (CMI) Bond to be used for brownfield redevelopment and environmental cleanup: protecting and enhancing Michigan's lakes, rivers, and streams; reclaiming and revitalizing local waterfronts; making critical state park improvements; enhancing local parks and recreational opportunities; pollution prevention; and protecting the public from lead hazards. Part 196 of Act 451 provides for the specific use of these funds. The program expenditures addressed in this report include six MDEQ categories of the CMI: response activities at facilities; waterfront improvement; remediation of contaminated lake and river sediments; nonpoint source pollution control grants; clean water fund programs; and pollution prevention programs.

The Refined Petroleum Fund (RPF) was created in October 2004 by amendments to Part 215 of Act 451, as amended. Uses of the RPF include, but are not limited to, corrective actions necessary to address releases of refined petroleum products. The fund is based on an environmental protection regulatory fee of 7/8 cent per gallon that is imposed on all refined petroleum products sold for resale or consumption in Michigan.

A brief summary of the appropriations received by the MDEQ for state-funded environmental programs through FY 2008 is provided on the next page. For explanations of abbreviations used in this report, please see "[Acronyms and Definitions](#)" on page 2.

Summary of Program Funding Sources (FY 1989 – FY 2008)

This chart reflects the state funds received for the MDEQ State-Funded Environmental Programs in their entirety.

Funding Source										
DIVISION	CMI	EPBF	CRF	RRLF	EPF	RPF	SSCUF	GF	Total	
State Sites Cleanup Program										
State Sites Cleanup Program	RRD						\$35,701,654		\$35,701,654	
Response Activities at Facilities										
Environmental Cleanup and Redevelopment Program	RRD	\$240,967,633	\$355,971,005	\$79,242,627		\$31,186,365	\$35,000,000	\$69,897,485	\$812,265,115	
Emergency and Contingency Program	RRD		\$10,312,732	\$36,590,792			\$1,000,000	\$1,557,458	\$49,460,982	
Revitalization Revolving Loan Program	ESSD				\$5,823,584				\$5,823,584	
Municipal Landfill Cost-Share Grant Program	ESSD	\$8,000,000		\$2,036,965		\$1,963,035		\$6,000,000	\$18,000,000	
Site Reclamation Grant Program	ESSD		\$33,547,534						\$33,547,534	
Site Assessment Grant Program	ESSD		\$10,000,000						\$10,000,000	
Brownfield Redevelopment Grant Program	ESSD	\$37,500,000							\$37,500,000	
Brownfield Redevelopment Loan Program	ESSD	\$25,000,000							\$25,000,000	
Solid Waste Alternatives Program										
Solid Waste	WHMD		\$149,236,326						\$149,236,326	

		Funding Source								
DIVISION		CMI	EPBF	CRF	RRLF	EPF	RPF	SSCUF	GF	Total
Waterfront Improvements										
Waterfront Redevelopment Grants Program	ESSD	\$49,999,938								\$49,999,938
Remediation of Contaminated Lake and River Sediments										
Contaminated Lake and River Sediments Program	WB	\$14,480,121								\$14,480,121
Nonpoint Source Pollution Control Grants										
Nonpoint Source Pollution Control Grants	ESSD	\$36,134,484								\$36,134,484
Clean Water Fund Programs										
Abandoned Well Management Grant Program	WB	\$2,277,286								\$2,277,286
Water Use and Withdrawal Programs	WB	\$250,000								\$250,000
Water Use and Withdrawal Programs (MDNR)	MDNR	\$497,280								\$497,280
Drinking Water Program	WB	\$973,000								\$973,000
Water Quality Monitoring	WB	\$22,770,875							\$1,000,000	\$23,770,875
Voluntary Storm Water Permits Grants	ESSD	\$4,475,107								\$4,475,107
Failing On-Site Septic Systems	ESSD	\$6,771,136								\$6,771,136
Protecting High Quality Waters	ESSD	\$5,859,581								\$5,859,581

		Funding Source								
	DIVISION	CMI	EPBF	CRF	RRLF	EPF	RPF	SSCUF	GF	Total
Illicit Storm Sewer Connection Grants Program	ESSD	\$7,727,566								\$7,727,566
Remedial Action Plan and Lakewide Management Plans Implementation Grants	ESSD	\$7,999,725								\$7,999,725
Conservation Reserve Enhancement Program	ESSD	\$5,000,000								\$5,000,000

Pollution Prevention Programs

Retired Engineers Technical Assistance (RETAP) Fund	ESSD	\$10,000,000								\$10,000,000
Small Business Pollution Prevention Assistance Revolving Loan Fund	ESSD	\$5,000,000								\$5,000,000
Michigan Household Hazardous Waste Collection Initiative	ESSD	\$958,667								\$958,667
Michigan Regional Pollution Prevention Grant Program	ESSD	\$664,803								\$664,803
Green Chemistry	ESSD	\$1,000,000								\$1,000,000
Environmental Education Curriculum Project	EXEC	\$999,998								\$999,998

Funding Source Totals		\$495,307,200	\$559,067,597	\$117,870,384	\$5,823,584	\$33,149,400	\$36,000,000	\$35,701,654	\$78,454,943	\$1,361,374,762
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REPORTING REQUIREMENTS

This report fulfills a number of reporting obligations found in annual appropriation bills and related reporting obligations found in Parts 195, 196, and 201 of Act 451; and in the Brownfield Redevelopment Financing Act, 1996 PA 381, as amended. The reporting requirements covered by this report are more fully described below.

REPORTING OBLIGATIONS COVERED BY THIS REPORT

Source	Section	Division	Programs	Requirements	Sites Affected
ACT 381					
Chapter 125	125.2665(12)	RRD	CRP	(a) A compilation and summary of all the information submitted under subsection (2). (b) The amount of revenue the state would have received if taxes levied for school operating purposes had not been captured under this section for the previous calendar year. (c) The amount of revenue each local governmental unit would have received if taxes levied for school operating purposes had not been captured under this section for the previous calendar year.	All EPBF sites (FY 1989 - FY 2008)
ACT 451					
Part 195 EPBF Implementation	19508(7)	ESSD RRD	CRP SAG SRG	Name and location, nature, funds received, county.	All EPBF sites (FY 1989 - FY 2008)
	19501 – 19508	MDEQ	All	Reporting on the uses of the proceeds of bonds issued under the EPBF.	All EPBF sites (FY 1989 - FY 2008)
Part 196 CMI Implementation	19608(9)	ESSD EXEC RRD WB	AWM BRG BRL CLRS CREP CRP DWP EECP FOSS GCSP HHW ISSCG MLGP MRPPGP NSPCG PHQW RAPLMPIG RETAP SBPP VSPG WQM WRG WUAWP	Name and location, nature, funds allocated, county, summary of accomplishments.	All CMI sites (FY 1999 - FY 2008)

Source	Section	Division	Programs	Requirements	Sites Affected
Part 201 Environmental Remediation	20105a	RRD	BRG BRL CRP MLGP RRL SAG/SRG SSCUP WRG	List of sites receiving state funds to conduct response activities (in alphabetical order).	All sites (EPBF, CRF, CMI, & GF FY 1989 - FY 2008)
	20108c(11)	RRD	SSCUP	Status of the response activities being conducted at state-owned sites and the need for additional funds.	All SSCUP sites (FY 1995 - FY 2008)
	20105(1)(g)	RRD	Site Delistings	Name and location, and source of funds.	All sites delisted from October 1, 2006 through September 30, 2008
	20112a	RRD	12a	Report on the effectiveness of the amendatory act that added this section in restoring the economic value of site of environmental contamination.	All sites (EPBF, CRF, CMI, & GF FY 1989 - FY 2008)
	20113(7)	RRD	CRP	Name and location, nature, funds authorized, expenditures, status.	All CRF sites (FY 1997 - FY 2008)
	20120a(18)	RRD	CRP	Evaluate and revise, if appropriate, the cleanup criteria derived under this section.	All changes from January 1, 2008 through December 31, 2008
	20120d(2)	RRD	CRP	Maintain a list of remedial action plans submitted for approval that comply with the requirements of R299.5515 of the Michigan administrative code.	Periodically
	20129a(4)	RRD OGS WHMD	BEA	Number of petitions received, average length of time for determination, number of determinations not completed in required period, and staff time.	All petitions received by RRD, OGS, and WHMD
Appropriation Boilerplate Requirements for FY 2008					
PA 121 of 2007 FY 2008 EPBF/CMI Appropriation Boilerplate	211	ESSD RRD WB	BRG CLRS CRP E&C RRL SFC SSCUP	Name and location, nature, how petition will be resolved, time to complete, allocation, funds expended at end of FY, brownfields.	Sites that received FY 2008 CRF/GF allocations

PART TWO – ENVIRONMENTAL PROTECTION BOND

Environmental Protection Bond Fund

Part 195 of PA 451, the EPBF, was established by PA 328 of 1988 (PA 328) to account for the proceeds of \$660 million of general obligation bonds approved by Michigan voters in November 1988. This approval was obtained under the general authority of Article 9, Section 15, of the 1963 State Constitution. The bonds are authorized for financing environmental protection programs to clean up sites of toxic and other environmental contamination; contribute to a regional Great Lakes Protection Fund; address solid waste problems; treat sewage and other water quality problems; reuse industrial sites and preserve open space. The PA 328 also specifies that not more than \$425 million of the proceeds of these bonds be available to clean up sites of toxic and other environmental contamination; not more than \$150 million be available for solid waste projects; not more than \$60 million be available to capitalize the State Water Pollution Control Loan Fund (recorded as equity transfers to the Michigan Municipal Bond Authority); and not more than \$25 million be available to fund Michigan's participation in a regional Great Lakes Protection Fund.

The \$100 million Great Lakes Protection Regional Fund received the \$25 million Michigan share in 1989.

The Site Assessment and Site Reclamation Fund was appropriated \$43.5 million to provide grants to local units of government for assessing the nature and extent of contamination at a property and for grants to local units of government to undertake response activities at contaminated properties that were identified for their redevelopment potential.

Approximately \$355.9 million has been appropriated for the Environmental Cleanup and Redevelopment Program (CRP). Approximately \$338.5 million relating to 622 project sites has been expended on the CRP from FY 1989 to FY 2008. Approximately \$10.3 million has been appropriated for Emergency Cleanup Actions and Contingencies at 101 project sites. Further detailed information can be found in Part Three of this report under the Environmental Cleanup and Redevelopment and the CRP Emergency and Contingency Programs.

From the 994 Solid Waste Alternatives project applications received, 295 projects were funded, totaling approximately \$99 million. Approximately \$18 million of this was for closures of dumps and landfills. Over \$52 million was for market development projects. Approximately \$9 million was for Clean Michigan Community projects.

The following pages provide additional details regarding the EPBF projects.

SUMMARY OF ENVIRONMENTAL PROTECTION BOND FUND SALES

AS OF SEPTEMBER 30, 2008

Most of the funding for Environmental Protection Bond projects is provided by the net proceeds from General Obligation Bonds sold by the Michigan Department of Treasury.

There are approximately \$8.5 million of authorized proceeds that remain available at this time.

The following schedule details the sales that have occurred thus far.

NAME OF ISSUE	DATE	AMOUNT
EPB-1989 SERIES	11/08/89	\$63,830,348.24
GREAT LAKES PROTECTION	12/14/89	\$25,000,000.00
HOST SERIES I	11/15/90	\$945,151.00
EPB-1992 SERIES	06/25/92	\$143,401,085.73
COLLEGE SAVINGS BONDS - SERIES 1992 MINI BONDS	07/15/92	\$493,739.70
WATER POLLUTION CONTROL-1992 SERIES A	11/19/92	\$13,940,000.00
WATER POLLUTION CONTROL-1993 SERIES	12/16/93	\$16,670,000.00
EPB-1995 SERIES	06/27/95	\$129,084,406.03
EPB-1998 SERIES	06/03/98	\$91,197,961.40
EPB-2000 SERIES	11/01/00	\$60,499,475.19
EPB-2003A SERIES	08/28/03	\$39,966,541.17
EPB-2004A SERIES	09/15/04	\$38,810,712.10
EPB-2006A SERIES	09/27/06	\$27,655,105.05
TOTAL ISSUED TO DATE		\$651,494,525.61
TOTAL AUTHORIZED		\$660,000,000.00
REMAINING AUTHORIZATION		\$8,505,474.39

**Administrative Cost Summary
Environmental Protection Bond Fund
as of September 30, 2008**

DIVISION OR BUREAU	AMOUNT APPROPRIATED	CUMULATIVE APPROPRIATION	FISCAL YEAR	EXPENDITURES	CUMULATIVE EXPENDITURES
Waste & Hazardous Materials	\$397,100.00	\$397,100.00	1989	\$370,217.81	\$370,217.81
	\$960,600.00	\$1,357,700.00	1990	\$677,915.66	\$1,048,133.47
	\$970,100.00	\$2,327,800.00	1991	\$696,753.52	\$1,744,886.99
	\$990,700.00	\$3,318,500.00	1992	\$724,099.55	\$2,468,986.54
	\$1,040,200.00	\$4,358,700.00	1993	\$746,051.80	\$3,215,038.34
	\$1,222,000.00	\$5,580,700.00	1994	\$723,830.35	\$3,938,868.69
	\$1,105,500.00	\$6,686,200.00	1995	\$718,522.74	\$4,657,391.43
	\$719,900.00	\$7,406,100.00	1996	\$664,459.18	\$5,321,850.61
	\$715,000.00	\$8,121,100.00	1997	\$498,856.45	\$5,820,707.06
	\$723,600.00	\$8,844,700.00	1998	\$425,644.78	\$6,246,351.84
	\$723,600.00	\$9,568,300.00	1999	\$347,796.51	\$6,594,148.35
Water	\$0.00	\$0.00	1989	\$0.00	\$0.00
	\$74,600.00	\$74,600.00	1990	\$10,471.50	\$10,471.50
	\$109,700.00	\$184,300.00	1991	\$57,300.65	\$67,772.15
	\$113,500.00	\$297,800.00	1992	\$102,095.14	\$169,867.29
	\$119,200.00	\$417,000.00	1993	\$99,198.34	\$269,065.63
	\$140,000.00	\$557,000.00	1994	\$122,485.82	\$391,551.45
	\$128,200.00	\$685,200.00	1995	\$126,295.24	\$517,846.69
Air Quality	\$62,800.00	\$62,800.00	1990	\$32,081.25	\$32,081.25
	\$64,800.00	\$127,600.00	1991	\$57,850.42	\$89,931.67
	\$68,000.00	\$195,600.00	1992	\$64,066.53	\$153,998.20
	\$71,400.00	\$267,000.00	1993	\$63,607.97	\$217,606.17
	\$83,900.00	\$350,900.00	1994	\$61,447.42	\$279,053.59
	\$76,600.00	\$427,500.00	1995	\$67,083.79	\$346,137.38
Remediation & Redevelopment	\$1,812,300.00	\$1,812,300.00	1989	\$902,909.13	\$902,909.13
	\$3,388,800.00	\$5,201,100.00	1990	\$2,740,592.72	\$3,643,501.85
	\$3,975,400.00	\$9,176,500.00	1991	\$3,513,047.23	\$7,156,549.08
	\$4,192,000.00	\$13,368,500.00	1992	\$3,604,371.64	\$10,760,920.72
	\$4,896,100.00	\$18,264,600.00	1993	\$4,842,205.55	\$15,603,126.27
	\$5,751,700.00	\$24,016,300.00	1994	\$5,075,950.47	\$20,679,076.74
	\$5,268,900.00	\$29,285,200.00	1995	\$5,220,721.02	\$25,899,797.76
Geological and Land Management	\$74,000.00	\$74,000.00	1994	\$21,274.51	\$21,274.51
	\$67,000.00	\$141,000.00	1995	\$45,243.70	\$66,518.21

DIVISION OR BUREAU	AMOUNT APPROPRIATED	CUMULATIVE APPROPRIATION	FISCAL YEAR	EXPENDITURES	CUMULATIVE EXPENDITURES
Audit & Field Administration	\$192,800.00	\$192,800.00	1989	\$134,024.51	\$134,024.51
	\$381,600.00	\$574,400.00	1990	\$229,581.21	\$363,605.72
	\$423,900.00	\$998,300.00	1991	\$334,540.70	\$698,146.42
	\$373,500.00	\$1,371,800.00	1992	\$376,812.10	\$1,074,958.52
	\$392,000.00	\$1,763,800.00	1993	\$387,640.40	\$1,462,598.92
	\$424,350.00	\$2,188,150.00	1994	\$363,096.01	\$1,825,694.93
	\$416,300.00	\$2,604,450.00	1995	\$382,739.10	\$2,208,434.03
	\$133,000.00	\$2,737,450.00	1996	\$124,956.03	\$2,333,390.06
	\$131,600.00	\$2,869,050.00	1997	\$114,392.30	\$2,447,782.36
	\$133,500.00	\$3,002,550.00	1998	\$85,274.03	\$2,533,056.39
\$133,500.00	\$3,136,050.00	1999	\$41,042.33	\$2,574,098.72	
TOTALS BY FISCAL YEAR	\$2,402,200.00	\$2,402,200.00	1989	\$1,407,151.45	\$1,407,151.45
	\$4,868,400.00	\$7,270,600.00	1990	\$3,690,642.34	\$5,097,793.79
	\$5,543,900.00	\$12,814,500.00	1991	\$4,659,492.52	\$9,757,286.31
	\$5,737,700.00	\$18,552,200.00	1992	\$4,871,444.96	\$14,628,731.27
	\$6,518,900.00	\$25,071,100.00	1993	\$6,138,704.06	\$20,767,435.33
	\$7,695,950.00	\$32,767,050.00	1994	\$6,368,084.58	\$27,135,519.91
	\$7,062,500.00	\$39,829,550.00	1995	\$6,560,605.59	\$33,696,125.50
	\$852,900.00	\$40,682,450.00	1996	\$789,415.21	\$34,485,540.71
	\$846,600.00	\$41,529,050.00	1997	\$613,248.75	\$35,098,789.46
	\$857,100.00	\$42,386,150.00	1998	\$510,918.81	\$35,609,708.27
\$857,100.00	\$43,243,250.00	1999	\$388,838.84	\$35,998,547.11	

CUMULATIVE AMOUNT AVAILABLE
REMAINING FUNDS AVAILABLE

\$36,000,000.00
\$1,452.89

PERCENT USED
PERCENT REMAINING

99.996%
0.004%

**ENVIRONMENTAL PROTECTION BOND
STATUS OF SOLID WASTE ALTERNATIVES PROGRAM PROJECTS**

Purpose:

The Solid Waste Alternatives Program (SWAP) was established to provide grants and loans to further the goals of the State Solid Waste Policy to establish a statewide infrastructure for waste reduction, reuse, recycling, and composting. The SWAP also provided funds for related research and development and education programs. The SWAP's primary focus was development of sustainable markets for material recycling.

Project Selection:

Projects were selected through an annual application review process involving staff evaluations of applications and review and recommendation of appropriate projects by a public program-specific advisory committee.

Project Approval:

Recommendations of the advisory committee were made to the MDEQ (then MDNR) Director. Projects were approved through the state budget process with each project awarded on a line item basis by the Legislature with approval/line-item veto authority by the Governor.

Program Funding:

Approximately, \$46,665,517 of lapsed SWAP funding and interest has transferred to the CRF pursuant to PA 380 of 1996.

SWAP Project Summary

Type	Type Description	Grants	Grant Amount	Cumulative Expenditures
CLS	Landfill/Dump Closure Project	69	\$18,713,558	\$18,713,558
CMC	Clean Michigan Community – Model Projects	8	\$9,814,077	\$9,814,077
CP	Composting	29	\$2,277,728	\$2,277,728
ED	Resource Recovery Education	49	\$1,108,289	\$1,108,289
HHWC	Household Hazardous Waste Center	17	\$1,361,526	\$1,361,526
MD	Market Development	32	\$48,809,058	\$48,809,058
MDRD	Market Development Research and Demonstration	16	\$2,297,659	\$2,297,659
MP	Marketing Project	1	\$29,124	\$29,124
RP	Recycling-Collection/Processing	51	\$6,394,703	\$6,394,703
SP	Statewide Project	4	\$572,711	\$572,711
TSC	Transfer Station Construction	11	\$1,552,255	\$1,552,255
WRRD	Waste Reduction Research and Demonstration	7	\$659,456	\$659,456
WTE	Waste to Energy Project	1	\$5,000,000	\$5,000,000
		295	\$98,590,144	\$98,590,144

Explanation of “Activity Status” Information for the Table in Appendix J:

Complete: Grant-funded activities are complete.

Contact Person:

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PART THREE – CLEANUP PROGRAM SUMMARIES

SECTION ONE: STATE SITES CLEANUP PROGRAM

Purpose:

In July 1996, PA 380 amended Part 201, Environmental Remediation, of Act 451, by adding Section 20108c and creating the State Sites Cleanup Fund (SSCUF) and the State Sites Cleanup Program (SSCUP). Its intent is to fund environmental cleanups at contaminated sites where the state is a liable party as an owner or operator of the site, as described in Section 20126 of Part 201.

Program Funding:

Section 20108c of Part 201 provided a process for the expenditure of \$20 million that was originally appropriated under 1994 PA 265 to the MDNR, and subsequently transferred to the MDEQ. The fund was augmented by an additional appropriation of \$10 million in FY 1997 and again in FY 2002, when the Michigan Department of Management and Budget (MDMB) repaid \$965,002 that had been spent for remediation of the Clinton Valley Center in Oakland County prior to its sale. In 2005 the Legislature, in PA 11 of 2005, appropriated \$5 million in interest earned from the SSCUF from 1996 through 2004 for use in the program. A total of \$263,446 has lapsed.

Site Selection and Prioritization:

Under Section 20126 of Part 201, each state executive department and agency is required annually to provide the MDEQ a list of all facilities where they are liable as an owner or operator. The Brownfield Redevelopment Board (Board), created under 1996 PA 383, and composed of Directors of the MDMB and MDEQ and the President of the Michigan Economic Development Corporation are responsible for prioritizing funding for the cleanups. The sites are prioritized for response activity by the Board, based on the degree of health or environmental risk and by resale or redevelopment potential, as stipulated under Section 20108c of Part 201.

State Sites Cleanup Program

	Appropriations	Reserved for Specific Sites	Cumulative Expenditures 9/30/08	Unreserved Balance
State Sites Cleanup Fund	\$35,701,654	\$6,139,261	\$29,562,393	\$0

Explanation of “Overall Status” Information for the Table in Appendix A:

To date, SSCUP funding has been sought through the MDEQ for the contaminated sites. The status of these sites is described below:

Closed: All planned activities have been completed and the project has been closed. There are currently 87 sites that have been completed. Of these, 65 were closed using SSCUP funding; 12 using National Guard Bureau funding; and 10 using funding from the state departments. The number is less than in last year’s report because 3 sites were re-opened due to the discovery of additional contamination.

Closure Activities: The majority of the site cleanup activities have been completed. There may be a few additional activities before the site can be closed. There are currently 36 sites at which the state is conducting closure activities.

Design: The design of a treatment remedy or system is underway. This is a new category from the last report. These sites would have previously been listed in the category “In-Progress.” There are four sites in the design stage.

- Investigation:** Determining what cleanup activities are needed at this site. There are currently five sites in the investigation phase.
- No Funding:** No SSCUP or other funding is available to perform the required work at this time. There are currently 22 of these sites, which may receive SSCUP funding in the future if it becomes available.
- No Remediation Required:** Sites where contamination above required cleanup levels has not been discovered. There are two sites in this category.
- Not Eligible:** Sites are not eligible for funding for reasons other than non-liability. There are five sites in this category: two have separate state appropriations and three were determined to not need remediation.
- OM:** Operating and maintaining a treatment system. There are 14 sites where treatment systems are currently in operation.
- State Not Liable:** The site is not eligible for SSCUP funding because it has been determined not to be a state liability. There are 26 sites where it has been found that the state is not liable, the majority of which belong to the Michigan Department of Transportation who acquired the sites pursuant to the State Transportation Act of 1976, but never conducted any operations or other activities at the sites.

In previous years, this table contained categories called “In-Progress” and “On-Hold.” Sites previously described as “In-Progress” are now included in other categories to more accurately describe their current status. Sites previously describes as “On-Hold” are now included in the “No Funding” category as this is a more accurate description of their status.

Contact Person:

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SECTION TWO: RESPONSE ACTIVITIES AT FACILITIES

A. ENVIRONMENTAL CLEANUP AND REDEVELOPMENT PROGRAM

This section provides information on the following Remediation and Redevelopment Division (RRD) components of the Environmental Cleanup and Redevelopment Program:

1. Program Summary Table
2. Environmental Cleanup and Redevelopment Program (CRP)
3. Emergency and Contingency Program (E&C)

Due to restructuring of the MDEQ, the Leaking Underground Storage Tank Cleanup and Redevelopment Program was incorporated into the CRP in FY 2004. The Leaking Underground Storage Tank Cleanup and Redevelopment Contingency and Emergency Program was incorporated into the Environmental Cleanup and Redevelopment Emergency and Contingency Program. Appropriation and expenditure information for these programs is reported under CRP and E&C, respectively, beginning with the FY 2004 report.

1. PROGRAM SUMMARY TABLE

The state funding sources for these programs include, the fund amount, and the program are given in the table below:

SOURCE	AMOUNT	ALLOCATED FOR
Environmental Protection Bond Fund	\$355,971,005	CRP
	\$10,312,732	E&C
Clean Michigan Initiative Bond Fund	\$240,967,633	CRP
Cleanup and Redevelopment Fund	\$79,242,627	CRP
	\$36,590,792	E&C
General Fund/General Purpose	\$69,897,485	CRP
	\$1,557,458	E&C
Environmental Protection Fund	\$31,186,365	CRP
Refined Petroleum Fund	\$35,000,000	CRP
	\$1,000,000	E&C

Using these funds, Michigan has taken actions at nearly 1,800 sites to protect the public health, safety, welfare, and allow further redevelopment including:

- Water supplies have been replaced at approximately 10,000 homes and businesses.
- Immediate physical contact and fire/explosion risks have been addressed at hundreds of sites.
- Containment and cleanup has been conducted at nearly 50 landfills.
- More than 150 abandoned, dangerous buildings have been demolished.
- More than 500 sites have been prepared for redevelopment.

Despite the above progress, there are still thousands of sites to be addressed that need additional funding.

2. ENVIRONMENTAL CLEANUP AND REDEVELOPMENT PROGRAM

Purpose:

The CRP is administered by the RRD and is governed by Parts 195, 196, 201, 213, and 215 of Act 451. Under this program, the RRD initiates and oversees state-funded cleanup actions at Michigan sites of environmental contamination when there are no financially viable liable person(s), or where the liable person(s) refuses to act in a timely manner and immediate action is needed.

Site Selection:

Cleanup projects are proposed annually by the MDEQ and are approved by the Legislature via an appropriations bill. Historically, the sites selected and approved were those that presented the most significant risks to public health or the environment. However, starting in FY 1997 and with passage of the CMI Bond Fund, sites were also selected and approved based on their redevelopment potential.

The CRP sites included in this report are those sites approved by the Legislature to receive cleanup funds from FY 1989 through FY 2008. This includes sites approved to receive state funds in order to match federal funds for cleanup actions at federally listed sites of contamination (i.e., Superfund Match sites).

Program Funding:

Funding sources for the CRP include: the EPBF from FY 1989 through FY 1997, FY 2003, and FY 2007; General Fund/General Purpose monies from FY 1997 through FY 2002; the CRF from FY 1997 through FY 2004; CMI Bond Fund from FY 1999 through FY 2005, FY 2007, and FY 2008; Environmental Protection Fund from FY 2002 through FY 2004; and RPF in FY 2006 and FY 2008. From FY 1989 through FY 2008, over \$812 million was appropriated for site-specific cleanup projects at 1,784 sites. The chart below identifies appropriations and expenditures by funding source for the Environmental CRP.

Environmental Cleanup and Redevelopment Program

	Net Appropriations	Cumulative Expenditures 9/30/08	Reserved for Specific Sites	Unreserved Balance
Environmental Protection Bond Fund	\$355,971,005	\$338,528,436	\$17,442,569	\$0
Cleanup and Redevelopment Fund	\$79,242,627	\$77,184,845	\$2,057,782	\$0
General Purpose/General Fund	\$69,897,485	\$69,897,485	\$0	\$0
Clean Michigan Initiative Bond Fund	\$240,967,633	\$194,699,120	\$46,268,513	\$0
Environmental Protection Fund	\$31,186,365	\$28,133,247	\$3,053,118	\$0
Refined Petroleum Fund	\$35,000,000	\$16,358,621	\$18,641,379	\$0
Total	\$812,265,115	\$724,801,754	\$87,463,361	\$ 0

Explanation of “Overall Status” Information for the Table in Appendix B:

Many CRP sites are approved to receive state cleanup funds in more than one FY and for more than one type of cleanup activity. The information provided under “Overall Status” takes into account all activities approved for state funding and activities the RRD plans to take in the future.

Cancelled:

All planned state-funded cleanup activities have been cancelled. This is often due to work being completed by another party or planned work is no longer needed to abate the acute risk to public health or the environment. Planned work was cancelled at 99 sites.

Closed/Closed Monitoring Only (MO):	All state-funded cleanup activities that the RRD planned to undertake have been completed and the projects have been closed out. In some cases, monitoring of groundwater or drinking water may still be occurring to ensure continued compliance with criteria.
Complete:	All state-funded cleanup activities that the RRD planned to undertake have been completed. Generally, RRD waits for final closeout documentation from contractors to complete closure procedures. Cleanup actions are complete at 127 sites.
Funding Hold:	Insufficient funding is available to complete work at many sites. These sites do not pose an immediate threat to the health of Michigan residents. The state has suspended cleanup actions at 150 sites until additional funding is secured.
In Progress:	State-funded cleanup activities are in progress. There are 167 sites in this category.
Monitoring:	All state-funded cleanup activities that the RRD planned to undertake have been completed, however, monitoring of groundwater or drinking water is still occurring to ensure further state-funded actions are not required. These sites may need further actions if concentrations in the groundwater increase above applicable criteria. The RRD is monitoring 71 sites.
OM:	Treatment, remediation, or new water supply systems have been constructed and the remaining cleanup activities consist largely of OM of groundwater treatment systems. There are 37 sites in the OM phase.
Potentially Liable Party (PLP):	Other parties are conducting cleanup activities. State funds are not being expended at these sites. A liable party or another entity is performing remediation actions at 239 sites that had previously been recommended for state funding.

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3. ENVIRONMENTAL CLEANUP AND REDEVELOPMENT EMERGENCY and CONTINGENCY PROGRAM

Purpose:

The RRD, E&C Program is governed by Parts 201, 213, and 195 of Act 451. Under this program, the RRD initiates and oversees state-funded cleanup actions that are of an emergency or short-term nature, such as:

- Removal of abandoned drums.
- Restricting access to a location by fencing the area.
- Responding to hazardous substance spills.
- Abating imminent fire and explosion hazards.
- Abating imminent public health hazards.
- Mitigating the discharge of regulated substances into surface waters and/or other sensitive environmental receptors.
- Providing bottled water and/or temporary treatment devices to residences with contaminated drinking water until a permanent replacement is provided.
- Monitoring threatened drinking water wells.
- Providing emergency drinking water well replacement.

Site Selection:

The RRD identifies emergency cleanup actions and contingencies as the need arises. Actions can be taken in all areas of the state. Examples of the use of these funds include: disposing of barrels that are a threat to public health and the environment; assessing suspect sites to evaluate acute risk; cleanup of truck, tanker, and rail car spills; providing bottled water to residences at sites of environmental contamination where the groundwater is impacted; and abating an imminent threat to the public health caused by a release of a regulated substance to the environment.

Program Funding:

Funding sources for the RRD – E&C include: the EPBF from FY 1989 through FY 1997 and FY 2003; General Fund/General Purpose monies in FY 1997; the CRF from FY 1998 through FY 2008; and the RPF in FY 2008. As outlined in the chart below, from FY 1989 through FY 2008, the RRD received \$49 million in appropriations and has expended nearly \$36 million for E&C actions. The unreserved balance is set aside to be used for future E&C activities.

Emergency and Contingency Program

	Net Appropriations	Reserved for Ongoing Projects	Cumulative Expenditures 9/30/08	Unreserved Balance
Environmental Protection Bond Fund	\$10,312,732	\$0	\$10,312,732	\$0
General Fund/General Purpose	\$1,557,458	\$0	\$1,557,458	\$0
Cleanup and Redevelopment Fund	\$36,590,792	\$1,098,654	\$24,063,029	\$11,429,108
Refined Petroleum Fund	\$1,000,000	\$0	\$16,255	\$983,745
Total	\$49,460,982	\$1,098,654	\$35,949,474	\$12,412,853

Explanation of “Overall Status” Information for the Table in Appendix C:

Complete: All state-funded E&C cleanup activities have been completed.

In Progress: State-funded E&C cleanup activities in progress.

Monitoring: All state-funded E&C cleanup activities that the RRD planned to undertake have been completed, however, monitoring of groundwater or drinking water is still occurring to ensure further state-funded actions are not required.

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B. REVITALIZATION REVOLVING LOAN PROGRAM

Purpose:

The Revitalization Revolving Loan (RRL) Program is administered by the Environmental Science and Services Division (ESSD). Revitalization Revolving Loans are awarded to local units of government and local brownfield authorities for environmental assessments, demolition, and other remedial actions. There is no limitation on the amount a loan applicant may borrow and loans are awarded based on available funding.

Site Selection:

Loans are approved by the Director of the MDEQ based on eligibility criteria contained in Part 201 of Act 451.

Program Funding:

The RRL Program was originally capitalized through an appropriation transfer of \$4 million of General Funds. The RRL Program also received funds per PA 480 of 1996 for the proceeds associated with MDMB land sales. The accumulated interest and loan repayments can be used to make loans to local units of government and brownfield authorities. Interest accrued in FY 2008 amounted to \$97,978. To date, 23 projects have been funded, totaling \$7.6 million. Loan repayments have occurred since FY 2003 and some loans were completed under budget, resulting in additional funds available for new loans.

Revitalization Revolving Loan Program

	Available Funding	Award Amount	Cumulative Loan Repayments 9/30/08	Cumulative Interest Repayments 9/30/08	Loan Funds Returned	Available Balance
Revitalization Revolving Loan Fund	\$5,823,584	\$7,635,113	\$2,451,036	\$218,066	\$1,256,854	\$2,114,427

Explanation of "Activity Status" Information for the Table in Appendix D:

- Cancelled:** The loan award was cancelled at the request of the recipient.
- Completed:** All loan-funded activities are completed and the loan has been closed out.
- In Progress:** Loan-funded activities are in progress.

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C. MUNICIPAL LANDFILL COST-SHARE GRANT PROGRAM

Purpose:

The ESSD administers the Municipal Landfill Cost-Share Grant Program (MLGP). The MLGP is designed to reimburse up to 50 percent of eligible response activity costs incurred by local units of government at municipal solid waste landfills listed on the Superfund National Priorities List or nominated for listing by July 23, 1997.

Site Selection:

Grants are awarded through the MDEQ as approved by the Brownfield Redevelopment Board pursuant to Section 9a of Part 201 of Act 451. The Brownfield Redevelopment Board consists of the Director of the MDEQ, the Director of the MDMB, and the President of the Michigan Economic Development Corporation.

Program Funding:

Appropriations totaling \$18 million from the CRF, General Fund/General Purpose monies, and CMI Bond Fund have been made available to fund the grant program from FY 1997 through FY 2002. The program had been funded annually pursuant to appropriations provided by the Legislature. Grant recipients are required to enter into a grant agreement prior to reimbursements. To date, all of the \$18 million that was appropriated for this program has been awarded to and expended by local units of government.

Municipal Landfill Cost-Share Grant Program

	Net Appropriations	Grant Funds Awarded	Cumulative Expenditures 9/30/08	Available Balance
Clean Michigan Initiative Bond Fund	\$8,000,000	\$8,000,000	\$8,000,000	\$0
Cleanup and Redevelopment Fund	\$2,036,965	\$2,036,965	\$2,036,965	\$0
Environmental Protection Fund	\$1,963,035	\$1,963,035	\$1,963,035	\$0
General Fund/General Purpose	\$6,000,000	\$6,000,000	\$6,000,000	\$0
Total	\$18,000,000	\$18,000,000	\$18,000,000	\$0

Explanation of “Activity Status” Information for the Table in Appendix E:

Completed: All grant-funded activities are completed from the funding source for listed activities.

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D. SITE RECLAMATION GRANT PROGRAM

Purpose:

The Site Reclamation Grant Program (SRG) is administered by the ESSD and is governed by Parts 201 and 195 of Act 451. Under the program, the ESSD provides grants up to \$2 million to Brownfield Redevelopment Authorities, cities, counties, villages, and townships for environmental response activities on property where an economic development has been identified. The development must include private investment, job creation and take place on property that is a “facility,” i.e., contaminated, as defined by Part 201 of Act 451.

Site Selection:

Proposals for projects are accepted on an ongoing basis. Grants are approved by the Director of the MDEQ based on eligibility criteria contained in the administrative rules in Part 195 and Part 201, and as set forth by the MDEQ.

Program Funding:

A total of \$35 million in EPBF has been appropriated, and of this, \$1,452,465 has lapsed. To date, 67 grant projects have been funded in 50 communities. Funds allocated to cancelled projects or returned from projects completed under budget go back to the EPBF and are available for future SRG projects. Proposals for funding are accepted on an on-going basis, and are often awarded in combination with other grant and loan programs.

Site Reclamation Grant Program

	Appropriations	Grant Funds Awarded	Grant Funds Returned ¹	Cumulative Expenditures 9/30/08	Available Balance
Environmental Protection Bond Fund	\$33,547,534	\$41,383,395	\$8,992,258	\$30,225,562	\$1,156,397

Explanation of “Activity Status” Information for the Table in Appendix F:

- Cancelled:** The project was cancelled. Some expenditures may have been approved.
- Complete:** All grant-funded activities are complete.
- In Progress:** Grant-funded activities are in progress.

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¹ Grant Funds Returned: Includes cancelled projects and funds returned from closed projects.

E. SITE ASSESSMENT GRANT PROGRAM

Purpose:

The Site Assessment Grant Program (SAG) is administered by the ESSD and is governed by Parts 201 and 195 of Act 451. Under this program, the ESSD provides grants up to \$1 million to eligible local units of government (defined as “Core Communities”) to assess the nature and extent of contamination at properties with economic development potential.

Site Selection:

Proposals for projects are accepted on an ongoing basis. Grants are approved by the Director of the MDEQ based on eligibility criteria contained in the administrative rules in Part 195 and Part 201, and as set forth by the MDEQ.

Program Funding:

A total of \$10 million in EPBF has been appropriated. To date, 117 grant projects have been awarded in 44 communities. Funds allocated to projects subsequently cancelled, or returned from projects completed under budget, go back to the EPBF and are available for future SAG projects. Proposals for funding are accepted on an on-going basis, and are often awarded in combination with other grants and loans programs.

Site Assessment Fund Grant Program

	Appropriations	Grant Funds Awarded	Grant Funds Returned ²	Cumulative Expenditures 9/30/08	Available Balance
Environmental Protection Bond Fund	\$10,000,000	\$13,362,025	\$3,602,016	\$9,021,271	\$239,991

Explanation of “Activity Status” Information for the Table in Appendix G:

- Cancelled:** The project was cancelled.
- Complete:** All grant-funded activities are complete.
- In Progress:** Grant-funded activities are in progress.

Contact Person:

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² Grant Funds Returned: Includes cancelled projects and funds returned from closed projects.

F. BROWNFIELD REDEVELOPMENT GRANT PROGRAM

Purpose:

The Brownfield Redevelopment Grant Program (BRG) is administered by the ESSD and is governed by Parts 196 and 201 of Act 451. Under this program, grants are awarded to local units of government and brownfield redevelopment authorities created pursuant to state law for response activities at brownfield sites with redevelopment potential.

Site Selection:

Grants are approved by the Director of the MDEQ based on eligibility criteria set forth in Part 196 of Act 451. Eligible sites are those which meet the definition of a facility as defined in Part 201 of Act 451, or sites suspected of being a facility based on the historical use of the property. Eligible response activities include evaluation, cleanup, removal, or containment of hazardous substances as necessary to protect public health and the environment or natural resources.

Program Funding:

The CMI legislation initially identified up to \$20 million in bond funds available for the BRG. The statute was amended in December of 2003 to increase the funds available for Brownfield Redevelopment Grants to \$37.5 million. The Legislature has appropriated a total of \$38.8 million since 2000, of which \$1.3 million lapsed at the end of FY 2004. Seven new projects were awarded grants in FY 2008 totaling \$4.1 million. A total of 50 projects have been funded, totaling \$31.7 million. The available balance is set aside for use at future projects.

Brownfield Redevelopment Grant Program

	Net Appropriations	Grant Funds Awarded	Grant Funds Returned	Cumulative Expenditures 9/30/08	Available Balance
Clean Michigan Initiative Bond Fund	\$37,500,000	\$31,715,207	\$1,337,206	\$19,322,046	\$7,121,999

Explanation of "Activity Status" Information for the Table in Appendix H:

Completed: All grant-funded activities are complete and the grant project is closed out.

In Progress: Grant-funded activities are in progress.

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G. BROWNFIELD REDEVELOPMENT LOAN PROGRAM

Purpose:

The Brownfield Redevelopment Loan Program (BRL) is administered by the ESSD and is governed by Parts 196 and 201 of Act 451. Under this program, loans are awarded to local units of government and brownfield redevelopment authorities created pursuant to state law for response activities at brownfield sites with redevelopment potential.

Site Selection:

Loans are approved by the Director of the MDEQ based on eligibility criteria set forth in Part 196 of Act 451. Eligible sites are those which meet the definition of a facility as defined in Part 201 of Act 451, or sites suspected of being facilities based on the historical use of the property. Eligible response activities include evaluation, cleanup, removal, or containment of hazardous substances as necessary to protect public health and the environment or natural resources.

Program Funding:

The CMI statute was amended in December 2003 to provide funds up to \$37.5 million for this program. The MDEQ received a \$15 million appropriation in FY 2004 and a \$10 million appropriation in FY 2007. The CMI Bond Fund provides for a one-time expenditure to capitalize the BRL. To date, 36 loans have been awarded, totaling \$18.3 million. The loan period is 15 years, with interest accruing at the beginning of the sixth year. Repayments, along with the available balance, are available for loans for future projects.

Brownfield Redevelopment Loan Program

	Appropriations	Award Amount	Cumulative Loans Disbursed 9/30/08	Cumulative Loan Repayments 9/30/08	Loan Funds Returned	Available Balance
Clean Michigan Initiative Bond Fund	\$25,000,000	\$18,301,514	\$10,129,405	\$441,741	\$2,094,100	\$9,234,327

Explanation of "Activity Status" Information for the Table in Appendix I:

- In Progress:** Loan funded activities are in progress.
- Cancelled:** Loan award cancelled at the recipient's request.
- Completed:** Loan funded activities are completed.
- Closed:** Loan funds have been repaid.

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SECTION THREE: SITE DELISTINGS

From October 1, 2007, to September 30, 2008, the following sites were removed from the database of Part 201 sites of environmental contamination due to the completion of all necessary response actions.

Site ID	Site Name	County	Funding Source
13000007	Burlington Village GW Contam	Calhoun	Private
32000057	WLEW Radio Station	Huron	Private
45000067	Empire-Front Street	Leelanau	Private
51000162	Brown 19 Gas Plant (Facility 131)	Manistee	State
63000872	Beaver Precision Products	Oakland	Private
76000017	Huron Manufacturing	Sanilac	Private

Contact Person:

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SECTION FOUR: BASELINE ENVIRONMENTAL ASSESSMENT

Purpose:

Part 201 of Act 451 regulates sites of environmental contamination in Michigan. Section 20126(1)(c)(i) provides an exemption from liability for new or prospective owners/operators that purchase, occupy, or foreclose on property after June 5, 1995, who conduct an adequate Baseline Environmental Assessment (BEA) and disclose it to the MDEQ.

A BEA is an evaluation of environmental conditions present at a site at the time of purchase, occupancy, or foreclosure that provides a means to distinguish a new release from existing contamination. A BEA exempts new or prospective owners/operators from liability for existing contamination if the BEA is adequate, is completed within the required time frame, and is disclosed to the MDEQ. After June 5, 1995, if new or prospective owner/operators do not utilize the BEA process, they incur strict, joint and several liability for the existing contamination. The prospective owner/operator may disclose the BEA to the MDEQ, or submit a petition to request the MDEQ's determination of adequacy of the BEA. The BEA statistics are provided in the following table.

BEA Statistics

		FY 2008	Cumulative 9/30/2008	
Number of Disclosures		808	7,454	
Number of Petitions	BEA petitions received	192	4,558	
	BEA petitions pending	4	N/A	
	Total BEA determinations issued	188	4,483	
Petition Response Time	Petitions responded to within 15 days	Number of petitions	183	3,952
		Average number of days per determination	7.56	7.92
	Petitions responded to beyond 15 days	Number of petitions	5	531
		Average number of days per determination	19.40	35.13
	Overall average number of days per determination		7.84	11.14
Petition Review Time	MDEQ review and issuance of determination	22.53	20.48	
	Total BEA program average hours per determination	22.53	23.82	

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SECTION FIVE: PART 201 SECTION 12a REPORT

Purpose:

This report examines the effectiveness of the 1995 amendments which modified the liability standards and cleanup standards of Part 201 of Act 451 to promote redevelopment of contaminated sites and fulfills the reporting requirement described in Section 20112a of Act 451.

Change in Liability Standards:

The change from a strict to a causation-based liability scheme for property owners and operators was the primary policy change accomplished through the 1995 amendments. Prior to these amendments, the purchaser of a property also assumed the liability for the cleanup of the contamination that existed on the property at the time of its purchase, unless the purchaser entered into an innocent purchaser agreement and Covenant Not to Sue (CNTS) with the state of Michigan. Obtaining a CNTS and complying with the statutory provisions required for a CNTS were a significant deterrent to the sale and redevelopment of brownfield properties. As a result of the 1995 amendments, contaminated property can be purchased without assuming liability for existing contamination by performing a BEA and submitting it to the MDEQ. A BEA defines environmental conditions on the property at the time of purchase so that new releases can be distinguished from existing contamination.

For most brownfield transactions, the BEA process is a significant improvement over the CNTS process, which was the only available mechanism to limit purchaser liability prior to the 1995 amendments. As of September 30, 2008, approximately 12,000 BEAs (both disclosures and petitions) have been received by the MDEQ and approximately 83 BEAs are now being received each month.

The BEA process provides liability protection with dramatically lower transaction costs than did the CNTS process, allowing many more property owners to benefit from this aspect of Part 201.

For owners and operators of contaminated property who are not liable under the causation-based/BEA liability scheme, their obligation to respond to environmental contamination is limited to the requirements of Section 20107a of Act 451, unless other environmental laws apply (e.g., federal hazardous waste management obligations). Section 20107a of Act 451 and its associated administrative rules require owners and operators of contaminated property to take due care actions to prevent unacceptable exposures to the contamination, prevent exacerbation of the contamination, and protect against the foreseeable actions of third parties.

Cleanup Standards Based on Land Use:

The 1995 amendments to Part 201 of Act 451 created risk-based cleanup criteria that are linked to the intended use of the site, for example, residential, commercial, industrial, and recreational. Land use-based criteria allow for more cost-effective cleanups than prior state cleanup requirements that did not fully consider land use. For example, a site intended for industrial use does not need to be cleaned up to the same degree as a site intended for residential use. However, land use controls are necessary to ensure that the land use remains consistent with the cleanup criteria that were utilized in the site cleanup. These land use controls are intended to run with the land and may include both restrictions on the use of the land (e.g., industrial use only) and restrictions on the use of resources of the land (e.g., no consumption of groundwater underlying the land). Therefore, these controls are referred to in Part 201 as land and resource use restrictions.

In 2007, the RRD began redesigning the way the land and resource use restrictions were calculated and maintained. The MDEQ, due to budget issues and lack of staff, could not complete the process in 2008. Steps were taken to continue the redesign process by hiring a Departmental Analyst in October 2008 to review and oversee all new and existing land use restrictions for complete legal descriptions and surveys so the deed restriction could be mapped in a Geographical Information Systems project. During this process it was found that 724 existing deed restrictions were missing information sufficient to map the restrictions and require additional staff effort to determine if necessary information is available. The RRD has made progress on the mapping of the deed restrictions by working with Michigan Department of Information Technology's (MDIT) Center for Shared Services to create a platform for the mapping application which will aid in placing the deed restriction on the internet using the RRD's Michigan Environmental Mapper. This process, when completed, will provide a complete picture of the quantity of lands restricted as part of cleanup activities.

Due to the unavailability of current data, the January 1, 2007, land and resource use restriction data reported in the FY 2007 Consolidated Report is being presented in the following table.

Restriction	Number of Facilities	Area Covered by Restrictions	
		Acres	Square Miles
Commercial and/or industrial use	409	5,848	9.2
Groundwater consumption	599	27,378	42.8
Prohibition on excavation of soil	232	5,094	8.0
Restrictions necessary to preserve the integrity of exposure barriers employed to prohibit direct contact with contaminated soils	220	2,671	4.2
Restrictions that require engineering controls to prevent unacceptable exposure to hazardous substances in the vapor phase	120	661	1.0

The area and number of sites in the above table are lower than the likely amount of property where contamination-related land or resource use restrictions have been imposed. This is the case because Part 201 allows property owners to record land and resource use restrictions without informing the MDEQ. Also, the numbers reported above only include those land and resource use restrictions for which the MDEQ has documentation that the restrictions have actually been imposed on property, and do not include all restrictions contained in MDEQ-approved cleanup plans. Consequently, although the reported data illustrates the most common types of land and resource use restrictions employed in Part 201 cleanup plans, it is not complete.

Assessing Program Effectiveness:

The changes in liability standards and cleanup standards instituted by the 1995 amendments to Part 201 of Act 451 eliminated some of the main impediments to the redevelopment of brownfield properties. The results of a 2002 MDEQ survey of 33 core communities throughout the state attributed \$4.06 billion in private investment and 11,900 new jobs to the 1995 amendments. Though this information has not been verified by the MDEQ and some of the redevelopment may have taken place without the amendments, it provides evidence that the changes in the liability and cleanup standards have had a positive effect on the amount of properties being redeveloped throughout the state.

Although the amendments have facilitated the reuse of contaminated properties, several challenges have surfaced with the implementation of the amendments. The MDEQ has started the process for the redesign of the Part 201 and the Part 213³ programs with the goal of a single cleanup program. This effort incorporates recommendations from an extensive stakeholder input process. The redesign has, as one of its focus points, changes to the BEA and due care process to make liability dependent on due care compliance. The redesign will also place less emphasis on the use of formal deed restrictions, and more emphasis on reporting to the department changes in use that would affect the protectiveness of the remedy.

Funding Needs:

Funding to support the cleanup and redevelopment program has historically been provided by a variety of sources, but predominantly by bond issues in 1988 and 1998. Currently, available funding for the programs is nearly exhausted, and so in FY 2008, no new projects can be funded. The MDEQ needs a secure and stable source of funding for the cleanup and redevelopment program. The MDEQ has identified a need of \$90-100 million per year to provide a continuing level for the cleanup and redevelopment program that includes addressing orphan sites and redevelopment needs. This estimate does not include the even greater additional funding needed to address leaking underground storage tank releases.

³ Part 213, Leaking Underground Storage Tanks, of the Act 451.

Contact Person:

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SECTION SIX: BROWNFIELD REDEVELOPMENT FINANCING ACT

Purpose:

The Brownfield Redevelopment Financing Act, 1996 PA 381, as amended (Act 381), authorizes municipalities to create a Brownfield Redevelopment Authority (Authority) to facilitate the implementation of brownfield plans and promote revitalization of brownfield properties through the use of tax increment financing for eligible activities.

Eligible Property:

An eligible property is a contaminated property that meets the definition of "facility" as defined in Part 201 of Act 451 or a "blighted" or "functionally obsolete" property as defined in Act 381. A municipality may establish an Authority. The municipality must approve a brownfield plan that identifies eligible properties on which eligible activities will be conducted and from which the Authority will capture tax increment revenues to reimburse the cost of the activities. Generally, properties are identified by the Authority in conjunction with a developer interested in redeveloping a property.

Project Approval:

Approval by the MDEQ of a work plan is required where state and local taxes levied for school operating purposes will be used to pay for certain eligible activities on contaminated property. Eligible activities requiring MDEQ approval include activities to implement due care and additional response activities under the NREPA. In addition, if school taxes will be used to reimburse interest costs associated with the financing of the environmental activities, MDEQ work plan approval is needed for all environmental activities including BEA and due care planning activities. Approval is needed by the Michigan Economic Growth Authority where school taxes will be used to pay for eligible non-environmental activities on contaminated, blighted, or functionally obsolete properties.

Calendar Year 2008 Summary:

This is a summary of the information contained in brownfield plans and work plans reviewed by the MDEQ for the period from January 1, 2008, through December 31, 2008. During this period, 27 work plans were reviewed for 20 different Authorities and a total of \$12,137,935 was approved by the MDEQ for eligible activities at eligible properties.

Explanation of Information in Appendix K:

Appendix K includes a summary of information for projects which the MDEQ reviewed work plans for 2008. This summary is responsive to the reporting requirement in Section 15(12)(a) of Act 381.

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SECTION SEVEN: CLEANUP CRITERIA EVALUATION

Purpose:

Under Section 20120a(18) of Act 451, the MDEQ is to annually evaluate and revise, if appropriate, the cleanup criteria derived under this section. The evaluation is intended to incorporate knowledge gained through research and studies in the areas of fate and transport and risk assessment. The MDEQ is required to prepare and submit to the legislature a report detailing revisions made to cleanup criteria under this section. Inclusion of this section in the Consolidated Report satisfies this obligation.

Revisions:

No revisions were made to the Part 201 cleanup criteria in FY 2008.

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SECTION EIGHT: REMEDIAL ACTION PLANS

Purpose:

Remedial action plans (RAPs) are comprehensive work plans for performing remedial action at sites of environmental contamination under Part 201. Section 20120d(2) of Part 201 requires that the MDEQ maintain and periodically publish, a list of remedial action plans submitted for approval that comply with the applicable requirements of R 299.5532. A remedial action plan addresses all releases of hazardous substances in all environmental media at a facility. Other types of work plans also lead to response actions addressing contamination.

Remedial Action Plans:

The following remedial action plans were submitted during 2008 for approval and determined to comply with applicable requirements:

Site Name	Site ID	City	County	Closure Category
Enbridge Engy Ptsmth Twp PL Spill	09000358	Bay City	Bay	Generic Residential
TRW Sterling Heights	50000777	Sterling Heights	Macomb	Limited Industrial
Mt. Clemens Distribution Center (former)	50001196	Mt. Clemens	Macomb	Generic Industrial
MichCon Manistee Gate Station	51000176	Filer City	Manistee	Generic Residential
MichCon Scottville Gate Station	53000145	Scottville	Mason	Generic Residential
Detroit Edison Fermi 2 Nuclear Power Plant	58000225	Newport	Monroe	Generic Residential
BASF Milford Avenue	82001615	Detroit	Wayne	Generic Industrial
Kraft Site	83000073	Cadillac	Wexford	Limited Residential

Other Work Plans/Response Actions:

During 2008, the MDEQ also reviewed or provided oversight on response actions for 145 incidents and determined that no further remedial action was required after completion of those actions. The incidents included transportation spills, dumping, abandoned drums and containers, and complaint follow-ups.

In addition, the MDEQ also reviewed or provided oversight on 1,321 work plans or reports for ongoing response activities at Part 201 sites of environmental contamination, such as interim response work plans, remedial investigation work plans, or monitoring work plans.

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PART FOUR – CLEAN MICHIGAN INITIATIVE BOND

SECTION ONE: CLEAN MICHIGAN INITIATIVE BOND FUND SUMMARY

In November 1998, Michigan citizens approved a \$675 million CMI Bond Fund to be used for brownfield redevelopment and environmental cleanup; protecting and enhancing Michigan's lakes, rivers, and streams; reclaiming and revitalizing local waterfronts; making critical state park improvements; enhancing local parks and recreational opportunities; pollution prevention; and protecting the public from lead hazards. Part 196 of Act 451 provides for the specific use of these funds. The MDEQ portion (\$570 million) of the CMI Bond Fund includes program expenditures addressed in this report in the Financial Summary for the CMI Bond Fund Table on page 39. This table includes six categories that the MDEQ is responsible for administering under the CMI Bond Fund: response activities at facilities; waterfront improvements; remediation of contaminated lake and river sediments; nonpoint source pollution control grants; clean water fund programs; and pollution prevention programs. In FY 2006, the MDNR received a \$500,000 appropriation of which \$2,720 has lapsed out of the CMI Bond Fund in the Water Quality Monitoring and Water Resources Protection and Pollution Control Category. This appropriation is included in the table below.

Below is a brief summary of the appropriations received by the MDEQ for State-Funded Environmental Programs through FY 2008.

Funding from the Clean Michigan Initiative Bond Fund

Response Activities		
• Cleanup and Redevelopment Program	RRD	\$240,967,633
• Municipal Landfill Grant Program	ESSD	\$8,000,000
• Brownfield Redevelopment Grant Program	ESSD	\$37,500,000
• Brownfield Redevelopment Loan Program	ESSD	\$25,000,000
Waterfront Improvements Grants		
• Waterfront Redevelopment Grants Program	ESSD	\$49,999,938
Remediation of Contaminated Lake and River Sediments		
• Contaminated Lake and River Sediment Program	WB	\$14,480,121
Nonpoint Source Pollution Prevention Grants		
• Nonpoint Source Pollution Control Grants	ESSD	\$36,134,484
Water Quality Monitoring and Water Resources Protection and Pollution Control		
• Abandoned Well Management Grant Program	WB	\$2,277,286
• Water Use and Withdrawal Programs	WB	\$250,000
• Water Use and Withdrawal Programs	MDNR	\$497,280
• Drinking Water Program	WB	\$973,000
• Water Quality Monitoring	WB	\$22,770,875
• Voluntary Storm Water Permits Grants	ESSD	\$4,475,107
• Failing On-Site Septic Systems	ESSD	\$6,771,136
• Protecting High Quality Waters	ESSD	\$5,859,581
• Illicit Storm Sewer Connection Grants	ESSD	\$7,727,566
• Remedial Action Plan and Lakewide Management Plans Implementation Grants	ESSD	\$7,999,725
• Conservation Reserve Enhancement Program	ESSD	\$5,000,000
Pollution Prevention Programs		
• Retired Engineers Technical Assistance (RETAP) Fund	ESSD	\$10,000,000
• Small Business Pollution Prevention Assistance Revolving Loan Fund	ESSD	\$5,000,000
• Michigan Household Hazardous Waste Collection Initiative	ESSD	\$958,667
• Green Chemistry	ESSD	\$1,000,000
• Environmental Education Curriculum Project	EXEC	\$999,998
• Regional Pollution Prevention Grant Program	ESSD	\$664,803
Administration		\$16,972,640
Funding Totals		\$512,279,840

**Financial Summary
Clean Michigan Initiative Bond Fund
For Fiscal Year 2008**

Program Purpose	Total CMI Available for Appropriation (1)	Prior Years Cumulative Appropriation	FY 2008 Appropriation (2)	Remaining Amount to be Appropriated	FY 2008 Staff Costs	FY 2008 Project Costs	FY 2008 Total Costs	Prior Year Cumulative Costs	Cumulative Costs Through FY 2008
Response Activities	\$324,025,634	\$305,804,436	\$5,663,200	\$12,557,998	-	\$32,231,135	\$32,231,135	\$211,261,050	\$243,492,185
Waterfront Improvements	\$50,000,000	\$49,999,938	\$0	\$62	-	\$444,126	\$444,126	\$44,698,293	\$45,142,419
Remediation of Contaminated Lake and River Sediments	\$24,460,930	\$14,480,121	\$0	\$9,980,809	-	\$111,784	\$111,784	\$14,209,830	\$14,321,614
Nonpoint Source Pollution Prevention	\$48,443,334	\$36,134,484	\$0	\$12,308,850	-	\$4,318,958	\$4,318,958	\$20,625,495	\$24,944,453
Water Quality Monitoring and Water Resources Protection and Pollution Control	\$86,691,889	\$61,017,223	\$3,584,333	\$22,090,333	-	\$6,616,525	\$6,616,525	\$47,095,357	\$53,711,882
Pollution Prevention	\$19,290,214	\$18,623,468	\$0	\$666,746	-	\$7,962	\$7,962	\$17,623,342	\$17,631,304
Administration	\$17,087,999	\$16,651,996	\$320,644	\$115,359	\$321,001	-	\$321,001	\$16,651,639	\$16,972,640
Grand Totals	\$570,000,000	\$502,711,666	\$9,568,177	\$57,720,157	\$321,001	\$43,730,490	\$44,051,491	\$372,165,006	\$416,216,497

(1) Per Public Act 288 of 1998.

(2) Per Public Act 121 of 2007

Project Cost Summary
Clean Michigan Initiative Bond Fund
as of September 30, 2008

Program, (Fund Number), & Amount Available for Appropriation	Amount Appropriated	Cumulative Appropriation	Amount Remaining to be Appropriated	Fiscal Year	Amount Expended
Response Activities (0681) 324,025,634.00	\$62,253,721	\$62,253,721	\$261,771,913	1999	\$821,323
	\$11,689,005	\$73,942,726	\$250,082,908	2000	\$7,663,361
	\$61,739,455	\$135,682,181	\$188,343,453	2001	\$26,644,798
	\$49,202,800	\$184,884,981	\$139,140,653	2002	\$42,502,128
	\$1,534,008	\$186,418,989	\$137,606,645	2003	\$21,923,036
	\$57,356,447	\$243,775,436	\$80,250,198	2004	\$31,369,181
	\$37,618,000	\$281,393,436	\$42,632,198	2005	\$34,745,282
	\$0	\$281,393,436	\$42,632,198	2006	\$25,348,681
	\$24,411,000	\$305,804,436	\$18,221,198	2007	\$20,243,260
	\$5,663,200	\$311,467,636	\$12,557,998	2008	\$32,231,135
Waterfront Improvements (0682) 50,000,000.00	\$20,000,000	\$20,000,000	\$30,000,000	1999	\$0
	\$28,075,338	\$48,075,338	\$1,924,662	2000	\$5,253,629
	\$0	\$48,075,338	\$1,924,662	2001	\$14,358,386
	\$0	\$48,075,338	\$1,924,662	2002	\$8,905,092
	\$0	\$48,075,338	\$1,924,662	2003	\$4,590,746
	\$0	\$48,075,338	\$1,924,662	2004	\$6,042,102
	\$1,924,600	\$49,999,938	\$62	2005	\$3,882,942
	\$0	\$49,999,938	\$62	2006	\$1,138,120
	\$0	\$49,999,938	\$62	2007	\$527,276
	\$0	\$49,999,938	\$62	2008	\$444,126
Remediation of Contaminated Lake and River Sediments (0683) 24,460,930.00	\$4,281,847	\$4,281,847	\$20,179,083	1999	\$135,425
	\$3,170,957	\$7,452,804	\$17,008,126	2000	\$124,658
	\$3,572,120	\$11,024,924	\$13,436,006	2001	\$1,607,032
	\$0	\$11,024,924	\$13,436,006	2002	\$956,835
	\$0	\$11,024,924	\$13,436,006	2003	\$1,788,017
	\$3,455,197	\$14,480,121	\$9,980,809	2004	\$809,780
	\$0	\$14,480,121	\$9,980,809	2005	\$3,644,924
	\$0	\$14,480,121	\$9,980,809	2006	\$4,945,223
	\$0	\$14,480,121	\$9,980,809	2007	\$197,936
	\$0	\$14,480,121	\$9,980,809	2008	\$111,784

Project Cost Summary (Cont'd)
Clean Michigan Initiative Bond Fund
as of September 30, 2008

Program, (Fund Number), & Amount Available for Appropriation	Amount Appropriated	Cumulative Appropriation	Amount Remaining to be Appropriated	Fiscal Year	Amount Expended	Cumulative Expenditures
Nonpoint Source Pollution Prevention (0684) 48,443,334.00	\$11,884,494	\$11,884,494	\$36,558,840	1999	\$0	\$0
	\$0	\$11,884,494	\$36,558,840	2000	\$88,580	\$88,580
	\$7,249,990	\$19,134,484	\$29,308,850	2001	\$1,506,797	\$1,595,377
	\$0	\$19,134,484	\$29,308,850	2002	\$2,517,116	\$4,112,493
	\$0	\$19,134,484	\$29,308,850	2003	\$3,369,915	\$7,482,408
	\$10,000,000	\$29,134,484	\$19,308,850	2004	\$2,810,769	\$10,293,177
	\$7,000,000	\$36,134,484	\$12,308,850	2005	\$3,393,084	\$13,686,261
	\$0	\$36,134,484	\$12,308,850	2006	\$3,870,127	\$17,556,388
	\$0	\$36,134,484	\$12,308,850	2007	\$3,069,107	\$20,625,495
	\$0	\$36,134,484	\$12,308,850	2008	\$4,318,958	\$24,944,453
Water Quality Monitoring and Water Resources Protection and Pollution Control (0685) 86,691,889.00	\$0	\$0	\$86,691,889	1999	\$0	\$0
	\$19,936,658	\$19,936,658	\$66,755,231	2000	\$178,638	\$178,638
	\$16,679,179	\$36,615,837	\$50,076,052	2001	\$1,471,754	\$1,650,392
	\$7,082,254	\$43,698,091	\$42,993,798	2002	\$5,664,248	\$7,314,640
	\$2,501,458	\$46,199,549	\$40,492,340	2003	\$6,592,974	\$13,907,614
	\$3,347,910	\$49,547,459	\$37,144,430	2004	\$6,646,222	\$20,553,836
	\$4,804,480	\$54,351,939	\$32,339,950	2005	\$9,054,207	\$29,608,043
	\$3,585,264	\$57,937,203	\$28,754,686	2006	\$9,078,887	\$38,686,930
	\$3,080,020	\$61,017,223	\$25,674,666	2007	\$8,408,427	\$47,095,357
\$3,584,333	\$64,601,556	\$22,090,333	2008	\$6,616,525	\$53,711,882	
Pollution Prevention (0686) 19,290,214.00	\$15,000,000	\$15,000,000	\$4,290,214	1999	\$15,000,000	\$15,000,000
	\$2,570,518	\$17,570,518	\$1,719,696	2000	\$197	\$15,000,197
	\$0	\$17,570,518	\$1,719,696	2001	\$10,779	\$15,010,976
	\$0	\$17,570,518	\$1,719,696	2002	\$595,959	\$15,606,935
	\$0	\$17,570,518	\$1,719,696	2003	\$711,654	\$16,318,589
	\$0	\$17,570,518	\$1,719,696	2004	\$438,334	\$16,756,923
	\$0	\$17,570,518	\$1,719,696	2005	\$382,265	\$17,139,188
	\$52,950	\$17,623,468	\$1,666,746	2006	\$374,594	\$17,513,782
	\$1,000,000	\$18,623,468	\$666,746	2007	\$109,560	\$17,623,342
	\$0	\$18,623,468	\$666,746	2008	\$7,962	\$17,631,304

