

State of Michigan
Rick Snyder, Governor

Department of Environmental Quality

Dan Wyant, Director

INTERNET: <http://www.michigan.gov/cleanwaterrevolvingfund>

**State Revolving Fund
Strategic Water Quality Initiatives Fund
Final Intended Use Plan - Fiscal Year 2013**

Prepared by:
Revolving Loan Section
Office of Drinking Water and Municipal Assistance
November 2012

The Michigan Department of Environmental Quality (DEQ) will not discriminate against any individual or group on the basis of race, sex, religion, age, national origin, color, marital status, disability or political beliefs. Questions or concerns should be directed to the DEQ Office of Human Resources, P.O. Box 30473, Lansing, MI 48909.

SRF SWQIF SRF SWQIF SRF SWQIF

Table of Contents

I.	Introduction.....	3
II.	Structure of the SRF.....	4
III.	Structure of the SWQIF.....	5
IV.	Advantages of the SRF and SWQIF	5
V.	Project Priority	6
VI.	Goals	6
VII.	Allocation of Funds for SRF	8
VIII.	SRF Program Assets.....	8
IX.	Allocation of Funds for SWQIF	9
X.	Assurances.....	9
XI.	Criteria and Method for Distribution of Funds	9
XII.	Public Review and Comment.....	10
XIII.	Origination of Documents.....	11

Attachments:

SRF Final Project Priority List for Fiscal Year 2013
NPS Final Project Priority List for Fiscal Year 2013
Fundable SRF Projects by Category for Fiscal Year 2013
SWQIF Final Project Priority List for Fiscal Year 2013
Key to Project Priority List Headings for SRF and SWQIF
SRF Final Green Projects

I. INTRODUCTION

The Michigan Department of Environmental Quality (DEQ) through the Office of Drinking Water and Municipal Assistance (ODWMA) provides a low-interest loan financing program to assist qualified local municipalities with the construction of water pollution control facilities. Michigan's fund is officially known as the Water Pollution Control Revolving Fund. Since its inception in 1989, however, the fund has more commonly been referred to as the State Revolving Fund, or SRF. This is an important distinction to be made because Michigan also offers similar financing programs: the Drinking Water Revolving Fund or DWRF, for drinking water projects, and the Strategic Water Quality Initiatives Fund or SWQIF, for water pollution control projects that are not in public ownership. While these three programs run on parallel tracks, there are some differences in their requirements. It is important that interested parties work with the DEQ staff to increase their knowledge of these differences.

This final Intended Use Plan (IUP) will focus on the SRF and SWQIF. Qualified municipalities must meet the federal and/or state requirements for either program, as well as demonstrate their ability to publicly finance their project and retire project debt. In addition, to the loan provided by the DEQ, borrowers have the option to pay for part of their project with cash and other resources. The Michigan Finance Authority (Authority) is charged with the financial administration of the SRF and SWQIF funds through the Shared Credit Rating Act, 1985 PA 227, as amended. Since 1989, Michigan has awarded \$3.9 billion in financial assistance to 467 borrowers. The SWQIF has provided \$24 million in financial assistance to 19 borrowers. In fiscal year (FY) 2013, the SRF and the SWQIF will fund projects for \$400 million and \$3 million, respectively.

Michigan's SRF program is used by local municipalities to finance construction of their water pollution control projects pursuant to Part 53, Clean Water Assistance, of the Natural Resources and Environmental Protection Act (NREPA), 1994 PA 451. These projects may include wastewater treatment plant upgrades or expansions, combined or sanitary sewer overflow abatement, new sewers designed to reduce existing sources of pollution, and other publicly owned wastewater treatment efforts. The SRF can also fund projects to reduce nonpoint sources (NPS) of water pollution.

The SWQIF was created by the passage of Proposal 2 by Michigan voters in November 2002. The implementation of the SWQIF is codified as Part 52, of the NREPA, 1994 PA 451, as amended. The SWQIF is a low-interest revolving loan program that allows qualified municipalities to access financing for the construction of needed water pollution control facilities that cannot qualify for SRF assistance. Two types of projects can be financed under the SWQIF: (1) the on-site upgrade/ replacement of septic systems, and (2) the disconnection of footing drains from privately owned sump pumps.

This final IUP describes how the DEQ and the Authority will jointly administer all available SRF and SWQIF funds during FY 2013. An IUP is a required part of the process to request the federal FY 2012 SRF capitalization grant, which will be matched with 20 percent in state match funds. The FY 2012 capitalization grant allotment for Michigan is \$60,770,000. The SWQIF is a state funded program. The Revolving Loan Section (RLS) of the ODWMA is charged with carrying out the program administration responsibilities. The Authority is responsible for financial administration of the programs.

The United States Environmental Protection Agency (EPA), Region 5 staff continues to offer guidance and annual program oversight reviews that strengthen the management of the SRF and help to ensure consistent application of federal requirements. The SWQIF is a state funded program that has requirements similar to the SRF.

The relationship between the DEQ, the Authority and the EPA is established in an Operating Agreement signed by authorized signatories from each agency. The Operating Agreement is incorporated into this final IUP by reference and is available from the DEQ upon request. The DEQ certifies that it is recognized by the EPA as the primary agency for management of the SRF program. The priority systems for the SRF and SWQIF were developed by the DEQ and will be used each fiscal year to determine which projects will have access to SRF and SWQIF assistance. The SRF and SWQIF priority systems were designed to provide low-interest financing to those projects that will have the greatest impact on public health and water quality.

A public hearing for the draft IUP and the Project Priority Lists (PPL) was held on September 19, 2012. All comments from the public hearing were addressed.

American Recovery and Reinvestment Act

In FY 2009, Michigan received additional SRF capitalization of \$168,509,000 through the American Recovery and Reinvestment Act of 2009 (ARRA), the federal stimulus bill. Sixty-seven projects received low-cost financing through ARRA. Thirty-five projects have completed construction as of November 15, 2012.

Fiscal Year 2013 Project Funding

Michigan's FY 2012 federal SRF capitalization grant is \$60,770,000. Congress mandated that at least \$3,377,376 be provided as additional subsidy to borrowers. The DEQ plans to provide the entire amount as principal forgiveness. In addition, Congress also requires that at least 10 percent of the grant (\$6,077,000) be used for projects that qualify under the Green Project Reserve. All SRF projects funded in FY 2013 must pay their workers the federal Davis Bacon wage rates for their job classification.

II. STRUCTURE OF THE SRF

From 1989 through 1992, Michigan's SRF operated as a direct loan program. Municipalities requested reimbursement for project costs and draws were processed directly upon federal and state funds as they were requested. Since 1992, however, the state has sold State Revolving Fund Revenue Bonds that are secured by federal and state assets (i.e., federal capitalization grant, required state match, loan repayments, and interest earnings). State funds can include general fund or state match revenue bonds. Bond issuance costs are covered by the bonds sold and, thus, are not identified as direct administrative expenses of the SRF. Historically, the bond issuance costs approximate one percent of the total bond issue. Project costs of the local units of government are reimbursed from the bond issues.

III. STRUCTURE OF THE SWQIF

Capital for the SWQIF is provided solely by the state of Michigan. SWQIF financing for projects first became available in October of 2003. The structure of the SWQIF is very similar to the SRF and utilizes the same project planning, application, and review/approval process. Like the SRF, the SWQIF can operate as a direct loan program or can provide assistance through the sale of leveraged revenue bonds.

IV. ADVANTAGES OF THE SRF AND SWQIF

The primary advantage of the SRF and the SWQIF to Michigan municipalities is the ability to borrow funds below market rate. The following table shows the interest rate history of the SRF program.

<u>Fiscal Year</u>	<u>Interest Rate</u>
1989-1994	2.000%
1995-1998	2.250%
1999-2003	2.500%
2004	2.125%
2005-2007	1.625%
2008-2012	2.500%

Since the SRF's inception, 30-year tax exempt fixed interest rates have ranged from approximately 5 to 8 percent. The relative stability of the SRF has allowed communities to more adequately plan without factoring in major market rate adjustments.

The interest rate for SRF and SWQIF municipal borrowers in FY 2013 will be 2 percent. The interest rate decisions are based on loan demand, market conditions, program costs, and future project needs.

Apart from the low interest rate, municipalities also benefit from the SRF and SWQIF in that they can finance all eligible water pollution control costs. Municipalities often do not have to seek other sources or enter the market to obtain local share financing. Everything is handled by this "one-stop shopping" concept. The amount of time it takes to commence construction is greatly reduced. This streamlined financing approach has resulted in lower bid costs because of the tighter timeframe. A streamlined approach has removed the unexpected elements that occurred when communities would obtain a grant and then have to secure financing for the local share.

The SRF can also be used to fund qualified NPS projects. The DEQ director annually allocates funds between traditional point source projects and the NPS projects. At least 2 percent of available SRF lending capacity must be allocated to NPS projects that are consistent with Section 319 of the Federal Clean Water Act. The DEQ Director, for FY 2013, proposes to allocate the required 2 percent of lending capacity to NPS projects, enough to fund all NPS projects seeking loan assistance during the year. There are eight NPS projects, totaling \$4,490,000, seeking SRF assistance in FY 2013.

V. PROJECT PRIORITY

The NREPA requires the SRF and SWQIF to offer assistance in priority order from the state's annual PPLs. The criteria used to prioritize the projects are contained in the NREPA, with details set forth in SRF Administrative Rules (R323.951 to R323.965). There is no actual or implied guarantee that inclusion on the PPL or the IUP will constitute a commitment of financial assistance from the SRF or SWQIF. All program requirements must be satisfied before a binding commitment will be offered and a loan closed.

This final FY 2013 IUP, as well as the PPLs for the SRF and the SWQIF, include projects seeking Orders of Approval (the state's binding commitment) between October 1, 2012, and September 30, 2013. Letters will be sent in November to those communities on the PPL, to notify applicants of fundable and contingency projects. Communities with projects in the fundable range must negotiate a milestone schedule with the RLS project manager assigned to their project. Historically, many projects in the contingency range of the PPL have been funded when others in the fundable range fail to satisfactorily meet program requirements in a timely manner. Therefore, it is imperative that municipal officials work closely with the DEQ and the Authority to ensure that no opportunity for funding is lost.

VI. GOALS

Michigan's SRF and SWQIF are funding sources used to protect and preserve the water resources within the state's boundaries. As more attention is given to water pollution abatement efforts within specific watersheds, the DEQ will continue to work toward establishing tighter integration of the federal/state/local partnership. This includes efforts to satisfy EPA that the pace of Michigan's SRF is satisfactory.

The DEQ has expressed its willingness to work together with the U. S. Department of Agriculture, Rural Development Office, and the Michigan Department of Licensing and Regulatory Affairs, so that our agencies may collectively fund projects and maximize use of our capital pool to protect Michigan water resources.

The long-term goals for Michigan's SRF and SWQIF are:

Goal: *To provide low-cost financing for wastewater system improvements or upgrades while maintaining the perpetuity of the SRF and SWQIF.*

The MFA uses a financial advisor to guide decisions on funding levels, interest rates, and other financing terms. Michigan looks to balance the goals of meeting the capitalization grant requirements (i.e., additional subsidies, green projects, Davis Bacon) while maintaining the SRF and SWQIF programs in perpetuity.

Goal: *To achieve and maintain statewide compliance with all applicable state and federal laws, rules, and standards while protecting the public health and environmental quality of our state.*

Protection of the state's waters will ultimately benefit everyone. Industry, tourism, the economy, and quality of life are strengthened when our water resources are preserved for our use and enjoyment. This includes improvement of existing surface waters that suffer impairment, protection of groundwater from improperly treated discharges, reduction of harmful discharges from sanitary and combined sewer overflows, and the protection of

aquatic ecosystems that cannot thrive in conditions of degraded water quality. The DEQ will also integrate principles of watershed management and water quality restoration within urban areas, as well as out-state areas.

Goal: *To continue effective partnerships with other federal and state financing sources to promote efficiency in environmental review procedures and coordination of funding.*

Given the limitations on pooled capital, the DEQ continues to work together with various federal and state agencies, such as the U.S. Department of Agriculture - Rural Development, Rural Community Assistance Program and the Michigan Department of Licensing and Regulatory Affairs, so that we may collectively fund qualifying projects and maximize use of our capital pool to achieve stated goals. Such partnerships ultimately benefit everyone, especially small population/low-income communities.

Goal: *Increase awareness and use of the SRF and SWQIF programs to complete projects.*

The DEQ will continue to use effective outreach methods such as: direct mail, electronic media, newsletter publication, and informational meetings to publicize and encourage use of the financial assistance.

In order to accomplish the long-term goals, we must also focus on more immediate objectives. Therefore, our short-term goals for FY 2013 are:

Goal: *Secure Michigan's full share of federal funding and to expeditiously obligate these monies, along with the state contribution.*

The DEQ has prepared and identified on the FY 2013 final PPL all projects that are willing and able to progress to loan closing consistent with a project milestone schedule for the construction of eligible facilities. All projects receiving SRF funds in FY 2013 will issue a Notice to Proceed within 60 days of the loan closing.

Goal: *Ensure that the additional requirements of the 2010, 2011 and 2012 capitalization grants are met, including those that are imposed on local borrowers.*

Congress has directed that at least 20 percent of the 2010 and 2011 capitalization grants, and at least 10 percent of the 2012 capitalization grant, be allocated to Green Project Reserve. The DEQ solicited green infrastructure, water/energy efficient and environmentally innovative projects for the FY 2013 PPL. The DEQ required and approved business cases for projects that are not determined as a categorically Green Project as described in the EPA's FY 2011 SRF Procedures. Business cases will be posted on the DEQ website once funded.

Congress mandated that at least 30 percent of the 2010 and 2011 capitalization grants and at least 20 percent of the 2012 capitalization grant be provided as additional subsidy to borrowers. The DEQ plans to provide the additional subsidy as principal forgiveness. Congress also requires all SRF projects funded in FY 2013 to pay their workers the federal Davis Bacon wage rates for their job classification.

Goal: *Review and update, as applicable, the Operating Agreement by December 31, 2012.*

The SRF program has acquired additional requirements since ARRA; however, the Operating Agreement has not been updated to reflect the new requirements. The goal for the completion of the update is December 31, 2012.

VII. ALLOCATION OF FUNDS FOR SRF

The establishment of a fundable range for any given fiscal year entails a series of steps that culminate in a determination of how much fund resources can support. Using a series of interest rate assumptions (SRF loan rate, return on investment rates, and revenue bond rate) the process for FY 2013 is outlined below:

1. The DEQ reviewed the total amount of loans committed through September 30, 2012, and other amounts that affect the SRF.

Total loan commitments through 9/30/2012	\$3,897,930,000
Total revenue bonds issued to date	\$2,986,668,269

2. To establish an estimate of fund capabilities, the DEQ assumed that the capitalization grant would remain constant (for planning purposes only). The current presidential budget recommendation for the SRF in FY 2013 is \$689 million. This would result in the DEQ receiving \$29 million, if enacted. It is assumed that additional state match contribution from the general fund will not be available, necessitating the generation of state match needs from within the fund.
3. The DEQ then looked at how much the SRF could support using a five-year forecast at varying capitalization levels and interest rates. The capacity analysis assumes no Proposal 2 capitalization funds.

The DEQ's fundable range is \$400 million. The total amount of projects seeking SRF loans in FY 2013 is \$439 million (amount taken from the SRF final PPL). This includes, \$4,490,000 in NPS projects seeking assistance.

The provision of additional subsidy is a requirement of the 2010, 2011, and 2012 capitalization grants. The additional subsidy will be in the form of principal forgiveness and will not exceed \$10,330,162 in FY 2013. (The amount available for principal forgiveness includes approximately \$1 million of the 2010 capitalization grant, \$6 million of the 2011 capitalization grant, and \$3 million of the 2012 capitalization grant that may not be allocated in FY 2013.) When principal forgiveness is provided from available loan proceeds to projects, it greatly reduces the amount of the assets returning to the SRF as loan repayments, which could be used to make future loans.

Principal forgiveness will be made available for projects expected to close on a loan in FY 2013 at 50 percent of the green project/component amount. The DEQ reserves the right to limit projects to the PPL binding commitment amount.

VIII. SRF PROGRAM ASSETS

The DEQ and the Authority review the benefits of refunding previous bond issues each time a bond sale is anticipated. The Authority closed on an SRF bond issue and refunded a prior year bond issue in April 2012. There was no cross collateralization of the April 2012 bond issue. This bond issue utilizes a cash flow leveraging model.

The following chart provides the SRF program assets prior to the start of FY 2013. Funds drawn from leveraged bond issues will be used to pay program expenses and make loans to communities.

Capitalization Grant Amount	\$60,770,000
State Match	\$12,154,000
2012 Leveraged Bond Issue Balance (as of 11/14/2012)	\$83,029,521

IX. ALLOCATION OF FUNDS FOR SWQIF

As additional projects apply for SWQIF loans, the SWQIF can be established as a leveraged program. Using a series of interest rate assumptions (project demand, loan rate, return on investment rates, and revenue bond rate), the establishment of a fundable range can be completed. The total amount projected to receive SWQIF funds in FY 2013 is \$2,125,000. With the funds currently available, the SWQIF fundable range will extend through the entire PPL in FY 2013.

X. ASSURANCES

The final guidelines from the EPA set forth provisions that the state must provide certain assurances in order to qualify for capitalization grant funding. Such assurances are incorporated into the Operating Agreement and are included here by reference.

XI. CRITERIA AND METHOD FOR DISTRIBUTION OF FUNDS

The state of Michigan will provide financial assistance from the SRF and the SWQIF to municipalities in the relative order that they appear on the PPLs developed for the fiscal year covered by this IUP. It is probable, however, that lower-ranked communities will receive money sooner if higher-ranked communities are not ready to proceed.

As a result of the DEQ's review, 51 SRF projects totaling \$438,760,000 have expressed their intent to proceed in FY 2013 and are included on the final FY 2013 SRF PPL. Staff also identified 58 projects and/or segments equaling \$375,890,000 that will be considered for funding in the future. There are eight projects on the final FY 2013 NPS PPL, totaling \$4,490,000.

Thus, 81 different projects totaling \$782,560,000 are identified on the SRF PPL, along with a brief description, their total priority points, population to be served, targeted binding commitment date, and targeted binding commitment amount. The attached Key to Project Priority List Headings identifies the project priority categories in which each project received points on the SRF and SWQIF PPLs. The Scoring Detail is included for the NPS PPL.

For the SWQIF, there are two projects totaling \$2,125,000 that have expressed intent to proceed in FY 2013 and appear on the final FY 2013 SWQIF PPL.

The draft FY 2013 PPLs for the SRF and the SWQIF are included as part of the IUP process, and were presented as part of the public hearing notification package. Additional copies of the PPLs are available from the RLS.

Section 5309 of the NREPA permits the DEQ to limit funding in certain circumstances to maximize funds and achieve greater environmental gains. It reads:

To ensure that a disproportionate share of available funds for a given fiscal year is not committed to a single sewage treatment work project or storm water project, the department may segment a sewage treatment works project if either of the following criteria is present:

(a) The cost of the proposed project is more than 30 percent of the available funds.

(b) Upon application of a municipality, the department has approved a municipality's application for segmenting a project.

The DEQ has implemented these provisions as shown on the final SRF PPL.

Financial assistance to municipalities during FY 2013 will consist solely of loans. There will be no guarantees of indebtedness.

XII. PUBLIC REVIEW AND COMMENT

In order to satisfy public participation requirements, the DEQ held a public hearing on the SRF and SWQIF IUP and PPLs (including the NPS PPL) on September 19, 2012. The hearing was announced in newspapers throughout the state, published in the DEQ Calendar of Events, individually noticed to each municipality and its consultant engineer on the proposed draft FY 2013 PPLs, and sent to interested parties.

Items addressed at the public hearing included Michigan's draft PPLs for the SRF/SWQIF, the draft IUP, priority point assignments, planned funding schedules, and proposed binding commitment amounts for projects that might be assisted with SRF/SWQIF moneys during FY 2013. The hearing provided an opportunity for municipalities and other interested parties to comment and to request changes to their project's ranking criteria.

Questions about the public hearing, the final PPLs, or this IUP may be directed to:

**Ms. Sonya T. Butler, Chief
Revolving Loan Section
Office of Drinking Water and Municipal Assistance
Department of Environmental Quality
P.O. Box 30241
Lansing, MI 48909-7741
Telephone: 517-373-2161
Fax: 517-335-0743
E-Mail: butlers2@michigan.gov**

**Mr. Joe Fielek, Executive Director
Michigan Finance Authority
Michigan Department of Treasury
Treasury Building
Lansing, MI 48922
517-335-2160
E-Mail: treasmfa@michigan.gov**

XIII. ORIGINATION OF DOCUMENTS

The ODWMA is responsible for issuing the SRF final IUP and its accompanying information.

**Michigan Department of Environmental Quality
State Revolving Fund Current PPL
Fiscal Year 2013 Project Priority List by Rank**

Project No.	Loanee	Location	Description	Water Quality Severity Pts				PROJECTS WITH PRIOR YEAR SEGMENTS				PROJECTS WITHOUT PRIOR YEAR SEGMENTS								
				DO	NUT	TOX	MICR	GWD	Tot	Fal	Spig	Ent	Pop	Exist	Rec	Dil	Rat	Tot	Bnd	Com
5368-03	Gakland-Macomb Interceptor Drain	Macomb Co	Interp Rehab Ph 3	0	0	0	0	0	0	0	300	832,902	100	72.4	130000	0.000056	40	440	6/3/2013	\$90,185,000
5441-02	Ann Arbor	Washtenaw Co	WWTP Upgrd	0	0	0	0	0	0	0	0	163,987	100	47	78	0.24785	85	165	9/26/2013	\$76,000,000
5433-02	Wayne Co	River Rouge	River Rouge CSO RTB (Ph 2)	0	0	0	0	0	0	0	0	9,512	80	5.5	69	0.07971	95	165	8/26/2013	\$425,000
5461-02	Alma	Gratiot Co	Swr Replac	0	0	0	0	0	0	0	0	9,275	80	2.21	39	0.05667	70	150	8/26/2013	\$840,000
PROJECTS WITHOUT PRIOR YEAR SEGMENTS																				
5175-12	Detroit	Wayne Co	CSO Gakwood Swrs (PO-87)	100	100	0	27	0	227	0	0	9,000	80	18	20	> 6000	100	707	6/3/2013	\$61,000,000
5503-02	Dearborn	Wayne Co	CSO Sep (CIP N55211)	100	2	0	27	0	129	0	0	20,980	85	3	37	> 6000	100	614	3/1/2013	\$8,105,000
5539-01	Detroit	Wayne Co	Puritan CSO Control Facility	2	1	0	27	0	30	0	0	14,000	85	3.33	25	0.1332	85	500	9/26/2013	\$28,200,000
5516-02	St. Joseph	Berrien Co	Reg 2 SSO /I Removal	0	0	0	27	0	27	0	0	4,933	75	1.74	440	0.07385	55	457	6/3/2013	\$430,000
5523-01	Clinton Twp	Macomb Co	Relief Swrs	0	0	0	27	0	27	0	0	32,147	90	0.16	220	0.00073	40	457	3/1/2013	\$4,320,000
5416-01	Wayne Co	Northeast SDS	Northeast System PS Impr	0	0	0	0	0	0	0	0	173,499	100	82	130000	0.00025	40	440	8/26/2013	\$11,220,000
5527-01	Gogebic-hon WA	Gogebic Co	WWTP Impr	0	0	50	0	0	50	100	0	9,267	80	0.6	12	0.05	70	300	8/26/2013	\$3,090,000
5414-01	Cass City	Tuscola Co	WWTP Impr	0	0	0	0	0	0	0	0	2,521	65	0.26	3	0.08666	85	250	8/26/2013	\$4,025,000
5530-01	Allegan	Allegan Co	WWTP Impr (including sep handling)	0	0	0	0	0	0	0	0	4,000	75	1	410	0.00244	55	230	6/3/2013	\$1,150,000
5555-01	Commerce Twp	Oakland Co	PS SOGADA	0	0	0	27	0	27	0	0	65,000	95	0.005	0	> 6000	100	222	6/3/2013	\$750,000
5557-01	YCUA	Washtenaw Co	Septage handling fac improv	0	0	0	0	0	0	0	0	72,797	95	23.68	0.2	> 6000	100	195	6/3/2013	\$395,000
5502-01	YCUA	Washtenaw Co	WWTP Impr	0	0	0	0	0	0	0	0	72,797	95	22.54	0.2	> 6000	100	195	6/3/2013	\$1,575,000
5556-01	Commerce Twp	Oakland Co	WWTP Heat Recovery	0	0	0	0	0	0	0	0	63,000	95	1.95	0	> 6000	100	195	6/3/2013	\$340,000
5545-01	East Lansing	Ingham Co	Influent Swr-Relief Ph 1	0	0	0	0	0	0	0	0	88,267	95	7.5	39	0.19221	85	180	3/1/2013	\$5,145,000
5431-02	Wayne Co	Inkster	Inkster CSO RTB (Ph 2)	0	0	0	0	0	0	0	0	29,216	90	1.13	3.3	0.34241	85	175	8/26/2013	\$415,000
5499-01	Evergreen-Farmington SDS	Oakland Co	Farmington Interp Relief Swr	0	0	0	0	0	0	0	0	312,159	100	0.08	2.6	0.03077	70	170	8/26/2013	\$33,650,000
5532-01	Grand Rapids	Kent Co	N. Aeration Blower Improv @ WWTP	0	0	0	0	0	0	0	0	267,699	100	46.48	820	0.05668	70	170	3/1/2013	\$2,390,000
5529-01	Owosso Twp/Caledonia Twp Utility	Shiawassee Co	Swr Replac	0	0	0	0	0	0	0	0	8,062	80	6	57	0.16216	85	165	3/1/2013	\$480,000
5529-02	Owosso Twp/Caledonia Twp Utility	Shiawassee Co	Swr Rehab	0	0	0	0	0	0	0	0	8,062	80	6	37	0.16216	85	165	8/26/2013	\$3,775,000
5541-01	Sturgis	St. Joseph Co	WWTP Impr LS Impr San Swr	0	0	0	0	0	0	0	0	11,619	85	1.88	36	0.04667	70	155	6/3/2013	\$3,425,000
5533-01	Hearstige	Berry Co	WWTP Upgrade	0	0	0	0	0	0	0	0	7,415	80	0.88	62	0.01455	70	150	8/26/2013	\$970,000
5528-01	North Kent SA	Cannon, Plainfield and /	Swr Repl/WWTP Impr/PS Impr	0	0	0	0	0	0	0	0	54,766	95	8	860	0.0098	55	150	6/3/2013	\$3,625,000
5402-01	Wayne Co	Wayne Co	NHVRV System SOGADA	0	0	0	0	0	0	0	0	607,576	100	57.3	130000	0.00044	40	140	8/26/2013	\$3,710,000
5544-01	Clinton-Oakland Sewerage Disposal	Oakland Co	PS/Disinfection Swr	0	0	0	0	0	0	0	0	291,865	100	31	130000	0.00024	40	140	8/26/2013	\$24,440,000
5540-01	Macomb County Westwater Dispo	Macomb Co	Interp Odor/Corrosion Cont	0	0	0	0	0	0	0	0	640,978	100	43.04	130000	0.00033	40	140	8/26/2013	\$2,695,000
5419-01	Wayne Co	Downriver WWTF	WWTP Impr (Solids Thickening)	0	0	0	0	0	0	0	0	283,590	100	47.7	29200	0.00165	40	140	8/26/2013	\$18,200,000
5543-01	Livonia	Wayne Co	Swr Rehab	0	0	0	0	0	0	0	0	96,942	95	50.37	130000	0.00038	40	135	6/3/2013	\$3,670,000
5538-01	Newberry	Luce Co	WWTP Impr - Phase 1	0	0	0	0	0	0	0	0	3,200	70	0.57	86	0.00663	55	125	8/26/2013	\$3,480,000
5534-01	Waterford Twp	Oakland Co	Pump Station Rehab	0	0	0	0	0	0	0	0	58,900	95	7.82	130000	< 0.002	25	120	8/26/2013	\$2,580,000
5397-01	Wayne	Wayne Co	EQ Basins Upgrds	0	0	0	0	0	0	0	0	18,200	85	2.83	130000	< 0.002	25	110	8/26/2013	\$1,885,000
5396-01	River Rouge	Wayne Co	Swr Replac	0	0	0	0	0	0	0	0	9,512	80	1.24	130000	< 0.002	25	105	8/26/2013	\$1,790,000
5517-01	Grosse Ile Farms	Wayne Co	Kerry Rd PS Impr	0	0	0	0	0	0	0	0	9,479	80	3.5	130000	< 0.002	25	105	6/3/2013	\$4,500,000

**Michigan Department of Environmental Quality
State Revolving Fund Current PPL
Fiscal Year 2013 Project Priority List by Rank**

Project No.	Loanee	Location	Description	Water Quality Severity Pts					Fal OSSS Rec	Spig Ent Pis	Population Pis	Pop Pis	Exist Disch	Rec Water	Dil Ratio	Rat Pis	Tot Pis	Bind Date	Bind Com Amt
				DO	NUT	TOX	MIOR	GMD											
5535-01	St Louis	Gaird Co	lil Rehab	0	0	0	0	0	0	7,482	80	0.001	81	<.0002	25	105	8/26/2013	\$6,125,000	
5361-01	Grosse Pointe	Wayne Co	Swr Rehab	0	0	0	0	0	0	5,470	75	3.24	130000	<.0002	25	100	8/26/2013	\$3,450,000	
5539-01	East China Charter Twp	St. Clair Co	WWTP Rehab	0	0	0	0	0	0	3,900	70	0.65	126000	<.0002	25	95	6/3/2013	\$1,335,000	
5497-01	Pinckney	Livinston Co	WWTP Aeration	0	0	0	0	0	0	2,427	65	0.26	999999	<.0002	25	90	3/11/2013	\$615,000	
5395-01	Grosse Pie Farms	Wayne Co	Swr Rehab	0	0	0	27	0	0	427	35	0.164	999999	<.0002	25	87	8/26/2013	\$550,000	
5253-01	Shelby	Oceana Co	WWTP Xpar/Ujgd (refinance)	0	0	0	0	0	0		0				0	0	6/3/2013	\$3,000,000	
5168-01	Berrien Springs	Berrien Co	WWTP Repl (refinance)	0	0	0	0	0	0		0				0	0	8/26/2013	\$7,000,000	
43 Total # of projects																		\$ 434,270,000	

**Michigan Department of Environmental Quality
State Revolving Fund Future PPL
Fiscal Year 2013 Project Priority List by Rank**

Project No.	Loanee	Location	Description	Water Quality Severity Pts				Pop	Exist	Rec Water	Dil Ratio	Rat Pts	Tot Pts	Bind Com Date	Bind Com Amt							
				DO	NUT	TOX	MICR									GWD	Tot					
5287-03	Inkster	Inkster	Seg. 3 CSO; 5mm Swr Separator	7	0	0	27	0	34	0	0	0	300	6,190	80	2.9	3.5	>.6000	100	514	Future	\$16,830,000
5364-02	Lathrup Village	Oakland Co	SSO-Mainline/Swr Rehab	0	0	0	27	0	27	0	0	0	300	4,236	75	0.0045	0.3	0.014959002	70	472	Future	\$1,135,000
5525-02	Clinton Twp	Macomb Co	Relief Swrs	0	0	0	0	0	0	0	0	0	300	32,117	90	0	0	0	25	415	Future	\$3,735,000
5525-03	Clinton Twp	Macomb Co	Relief Swrs	0	0	0	0	0	0	0	0	0	300	32,117	90	0	0	0	25	415	Future	\$340,000
5545-02	East Lansing	Ingham Co	Influent Swr Relief Ph. 2	0	0	0	0	0	0	0	0	0	0	88,267	95	7.5	39	0.192307199	85	180	Future	\$4,740,000
5499-02	Berlin Charter Twp	Berlin Twp	LI Rehab	0	0	0	0	0	0	0	0	0	0	4,200	75	0.56	0	>.6000	100	175	Future	\$1,465,000
5493-03	Wayne Co	River Rouge	River Rouge CSO RTB (Ph 3)	0	0	0	0	0	0	0	0	0	0	9,512	80	5.3	69	0.079710029	85	165	Future	\$1,270,000
5392-02	Southgate-Mylan	Wayne Co	RT/FPS Impr (Seg 2)	0	0	0	0	0	0	0	0	0	0	45,389	90	15.39	44700	0.000344295	40	130	Future	\$3,540,000
5175-99	Detroit	Wayne Co	CSO; Oakwood Swrs Future Seg	100	100	0	27	0	227	0	0	0	300	9,000	80	18	20	>.6000	100	707	Future	\$12,000,000
5486-02	Detroit	Wayne Co	2nd Rouge River Outfall	100	0	0	27	0	127	0	0	0	300	3,272,047	100	155	67	>.6000	100	627	Future	\$155,190,000
5518-99	St. Joseph	Berrien Co	SSO; Future Segs; EO Basins	0	0	0	0	0	0	0	0	0	300	4,953	75	0	0	0	25	400	Future	\$9,335,000
5129-99	Sault Ste Marie	Chippewa Co	CSO; Swr Sep - Future Segs	0	1	0	27	0	28	0	0	0	300	9,323	80	0.045	78000	<.0002	25	433	Future	\$3,395,000
5500-01	Livingson Co	Tyone & Hardt	CS Repl	0	0	0	0	0	50	0	0	0	300	458	35	0.027	9999999	<.0002	25	410	Future	\$3,395,000
5547-01	East Lansing	Ingham Co	WWTP Solids Handling Impr	0	0	0	50	0	0	0	0	0	0	88,267	95	12.87	13	>.6000	100	245	Future	\$5,400,000
5546-01	East Lansing	Ingham Co	WWTP UV & Tender Impr	0	0	0	50	0	0	0	0	0	0	88,267	95	12.87	13	>.6000	100	245	Future	\$1,230,000
5558-01	YCUA	Washenaw Co	Misc WWTP & PS Impr	0	0	0	0	0	0	0	0	0	0	72,797	95	23.69	0.2	>.6000	100	195	Future	\$9,915,000
5481-01	YCUA	Washenaw Co	PS Impr (Pine View)	0	0	0	0	0	0	0	0	0	0	72,797	95	23.69	0.2	>.6000	100	195	Future	\$525,000
5466-01	MR River Interd	Wayne Co	MR River Fair Impr	0	0	0	0	0	0	0	0	0	0	31,334	90	22.76	27.85	>.6000	100	190	Future	\$17,025,000
5453-01	Pittsfield Twp	Washenaw Co	FM Repl; Imp Sewer Repl; PS U	0	0	0	0	0	0	0	0	0	0	17,223	85	2.14	0.2	>.6000	100	185	Future	\$2,835,000
5548-01	East Lansing	Ingham Co	IM Siphon Replac	0	0	0	0	0	0	0	0	0	0	88,267	95	3.2	13	0.246151953	85	180	Future	\$980,000
5432-03	Wayne Co	Redford	Redford CSO RTB (Ph 3)	0	0	0	0	0	0	0	0	0	0	88,267	95	1.3	13	0.099999231	85	180	Future	\$2,790,000
5431-03	Wayne Co	Inkster	Inkster CSO RTB (Ph 3)	0	0	0	0	0	0	0	0	0	0	48,600	90	0.5	3.3	0.342413865	85	175	Future	\$1,105,000
5455-01	Grand Rapids	Kent Co	Wastewater sys impr (future)	0	0	0	0	0	0	0	0	0	0	446,000	100	43.6	820	0.053170725	70	170	Future	\$1,240,000
5338-01	Marquette	Marquette Co	Swr Replac/WWTP Imps	0	0	0	0	0	0	0	0	0	0	20,547	85	2.93	22	0.133181213	85	170	Future	\$5,395,000
5529-03	Oakwood Twp/Ca	Shewasssee Co	Swr Rehab	0	0	0	0	0	0	0	0	0	0	8,062	80	0	0	0	25	105	Future	\$4,395,000
5404-01	Debt Twp	Ingham Co	WWTP Impr (Ph 2)	0	0	0	0	0	0	0	0	0	0	21,586	90	2.26	67	0.033731293	70	160	Future	\$5,500,000
5405-01	Debt Twp	Ingham Co	PS/FM Impr (Ph 3)	0	0	0	0	0	0	0	0	0	0	21,586	90	2.26	67	0.033731293	70	160	Future	\$3,665,000
5561-01	North Kent SA	Cannon Twp, Co L.S. Impr	Co L.S. Impr	0	0	0	0	0	0	0	0	0	0	54,786	95	8	860	0.009302224	55	150	Future	\$760,000
5492-01	Dexter	Washenaw Co	Get Sys/WWTP I&C	0	0	0	0	0	0	0	0	0	0	4,067	75	0.29	15	0.019333204	70	145	Future	\$1,000,000
5420-01	Wayne Co	Downriver WWTP	WWTP Impr (Secondary System)	0	0	0	0	0	0	0	0	0	0	283,990	100	47.7	29200	0.001633562	40	140	Future	\$7,520,000
5421-01	Wayne Co	Downriver WWTP	WWTP Impr (D&A Complex)	0	0	0	0	0	0	0	0	0	0	283,990	100	47.7	29200	0.001633562	40	140	Future	\$7,520,000
5375-01	Alegan	Alegan Co	Swr Replac/Refring; PS Repl	0	0	0	0	0	0	0	0	0	0	92,593	95	31	130000	0.000238462	40	135	Future	\$19,330,000
5531-01	Alegan	Alegan Co	WWTP Impr	0	0	0	0	0	0	0	0	0	0	5,092	75	0.87	410	0.002121951	55	130	Future	\$3,210,000
5537-01	Newberry	Luce Co	WWTP Impr - future phases	0	0	0	0	0	0	0	0	0	0	4,000	75	1	410	0.002438924	55	130	Future	\$2,600,000
5363-01	Mackinac Is	Mackinac Co	WWTP Uprgd (Phase 1)	0	0	0	0	0	0	0	0	0	0	3,200	70	0.57	86	0.005627899	55	125	Future	\$2,625,000
5367-01	Mackinac Is	Mackinac Co	WWTP Exp (Phase 2)	0	0	0	0	0	0	0	0	0	0	473	35	0.54	9999999	<.0002	25	110	Future	\$5,680,000
				0	0	0	0	0	0	0	0	0	0	473	35	0.54	9999999	<.0002	25	60	Future	\$4,630,000

38 Total # of projects

\$348,290,000

**Michigan Department of Environmental Quality
Non Point Source Current PPL
Fiscal Year 2013 Project Priority List by Rank**

Project No.	Loanee	Location	Description	Water Quality Points										Total Pts	Bind Comm Date	Bind Comm Amount	
				Microorgan	Phosphorus	Nitrogen	TSS	Total Water Quality Points	Enf Pts	High Qual	Ongoing Int	Use Value	Local Pat				
5504-03	Huron River Green Infrast	Ann Arbor	NPS-2013 Rain Gardens	0	0	0	6	6	0	0	100	200	200	200	506	8/26/2013	\$300,000
5552-01	Fenton	Genesee Co	NPS-Cornerstone Stormwater BMPs	0	0	0	0	0	0	0	100	200	200	400	6/3/2013	\$270,000	
5436-01	Allen Creek DD	Ann Arbor	NPS-Stormwater BMPs (Miller Rd)	50	50	0	0	100	0	100	100	0	200	400	3/11/2013	\$300,000	
5437-01	Allen Creek DD	Ann Arbor	NPS-Stormwater BMPs (Madison St)	50	50	0	0	100	0	100	100	0	200	400	8/26/2013	\$500,000	
5510-01	Allen Creek DD	Ann Arbor	NPS-Stormwater BMPs (4th Ave)	50	50	0	0	100	0	100	100	0	200	400	8/26/2013	\$300,000	
5512-01	Allen Creek DD	Ann Arbor	NPS-Stormwater BMPs (Forest Ave)	50	50	0	0	100	0	100	100	0	200	400	8/26/2013	\$300,000	
5550-01	Fenton	Genesee Co	NPS-Downtown Stormwater BMPs	0	0	0	0	0	0	0	0	200	200	400	6/3/2013	\$2,170,000	
5504-02	Huron River Green Infrast	Ann Arbor	NPS-2013 Tree Plantings	50	50	0	50	150	0	0	0	0	200	350	8/26/2013	\$350,000	

8 Total # of projects

\$4,490,000

Final Fundable State Revolving Loan Fund Projects for Fiscal Year 2013 - By Category

Project #	Secondary Treatment CatI	Advanced Treatment CatII	Infiltration/ Inflow CatIIIA	Sewer System Rehabilitation CatIIB	New Collector Sewers CatIVA	New Interceptors CatIIB	CSO Correction CatV	Storm Water Management CatVI	Non Point Source CatVII	Totals
5168-01					6,666,667	333,333				7,000,000
5175-12							61,000,000			61,000,000
5253-01	3,000,000									3,000,000
5361-01				3,450,000						3,450,000
5368-03				90,185,000						90,185,000
5395-01			550,000							550,000
5396-01			365,766	1,424,234						1,790,000
5397-01			1,855,000							1,855,000
5402-01							3,110,000			3,110,000
5414-01	4,025,000									4,025,000
5416-01	11,230,000									11,230,000
5419-01	18,200,000									18,200,000
5431-02							415,000			415,000
5433-02								425,000		425,000
5436-01									300,000	300,000
5437-01									500,000	500,000
5441-02	76,000,000									76,000,000
5461-02			499,331					340,669		840,000
5493-01							33,650,000			33,650,000
5497-01	615,000									615,000
5502-01				1,575,000						1,575,000
5503-02							8,105,000			8,105,000
5504-02									350,000	350,000
5504-03									300,000	300,000
5510-01									300,000	300,000
5512-01									300,000	300,000
5517-01	4,500,000									4,500,000
5518-02							430,000			430,000
5525-01			1,506,981							1,506,981
5527-01	3,090,000									3,090,000
5528-01			3,625,000							3,625,000
5529-01				480,000						480,000
5529-02				3,775,000						3,775,000
5530-01	1,150,000									1,150,000
5532-01	2,390,000									2,390,000

Final Fundable State Revolving Loan Fund Projects for Fiscal Year 2013 - By Category

Project #	Secondary Treatment CatI	Advanced Treatment CatII	Infiltration/ Inflow CatIIA	Sewer System Rehabilitation CatIIB	New Collector Sewers CatIVA	New Interceptors CatIVB	CSO Correction CatV	Storm Water Management CatVI	Non Point Source CatVII	Totals
5533-01	970,000									970,000
5534-01				2,580,000						2,580,000
5535-01	5,499,202		625,798							6,125,000
5536-01	3,480,000						28,200,000			3,480,000
5538-01										28,200,000
5539-01	1,335,000									1,335,000
5540-01		2,695,000								2,695,000
5541-01	3,348,083				76,917					3,425,000
5543-01			3,670,000							3,670,000
5544-01						24,440,000				24,440,000
5545-01				5,145,000						5,145,000
5550-01									2,170,000	2,170,000
5552-01									270,000	270,000
5555-01	750,000									750,000
5556-01	340,000									340,000
5557-01	335,000									335,000
# of project	18	1	8	8	3	2	7	2	8	140,257,285
										2,695,000
										12,697,876
										108,614,234
										9,556,603
										24,773,333
										134,910,000
										765,669
										4,490,000
										438,760,000



Strategic Water Quality Initiatives Fund Current PPL

SWQIF

Fiscal Year 2013 Project Priority List By Rank

Rank	Project Number	Project Name and Description	Water Quality Severity Points										Bind Com Date	Bind Com Amount				
			DD	MUT	TOX	MICR	GWD	Total	Enforce. Points	Exist. Disch	Rec Waters	Dilution Ratio			Ratio Points	Total Points		
PROJECTS WITH PRIOR YEAR SEGMENTS																		
1	3017-02	Alma	0	0	0	0	0	0	0	0	0	2.21	39	0.056667	70	70	8/27/2012	\$1,430,000
1	3017-03	Alma	0	0	0	0	0	0	0	0	0	2.21	39	0.056667	70	70	8/26/2013	\$675,000
PROJECTS WITHOUT PRIOR YEAR SEGMENTS																		
2	3010-05	Ann Arbor	0	0	0	0	0	0	0	0	0	17.56	78	0.225128	85	85	6/3/2013	\$1,450,000
3	Projects														\$3,555,000			

**Michigan Department of Environmental Quality
State Revolving Fund Green Projects
for Fiscal Year 2013 in Project Priority List Order**

Type of GPR

Project No.	Loanee	Location	Description	Green Project Amount	Bind Com Amt	Categorical	Business Case
5504-03	Huron River Green Infrastructure DD	Ann Arbor	NPS-2013 Rain Gardens	\$ 300,000	\$ 300,000	X	
5552-01	Fenton	Genesee Co	NPS-Cornerstone Stormwater BMPs	\$ 63,500	\$ 270,000	X	
5436-01	Allen Creek DD	Ann Arbor	NPS-Stormwater BMPs (Miller Rd)	\$ 300,000	\$ 300,000	X	
5437-01	Allen Creek DD	Ann Arbor	NPS-Stormwater BMPs (Madison St)	\$ 400,000	\$ 500,000	X	
5510-01	Allen Creek DD	Ann Arbor	NPS-Stormwater BMPs (4th Ave)	\$ 228,500	\$ 300,000	X	
5512-01	Allen Creek DD	Ann Arbor	NPS-Stormwater BMPs (Forest Ave)	\$ 286,500	\$ 300,000	X	
5550-01	Fenton	Genesee Co	NPS-Downtown Stormwater BMPs	\$ 587,300	\$ 2,170,000	X	
5504-02	Huron River Green Infrastructure DD	Ann Arbor	NPS-2013 Tree Plantings	\$ 350,000	\$ 350,000	X	
5556-01	Commerce Twp	Oakland Co	WWTP Heat Recovery	\$ 340,000	\$ 340,000	X	
5532-01	Grand Rapids	Kent Co	N. Aeration Blower Improv @WWTP	\$ 2,390,000	\$ 2,390,000	X	
5405-01	Delhi Twp	Ingham Co	PS/FM Impr (Ph 3)	\$ 1,499,225	\$ 3,165,000	X	
5404-01	Delhi Twp	Ingham Co	WWTP Impr (Ph 2)	\$ 5,500,000	\$ 5,500,000		X
5541-01	Sturgis	St. Joseph Co	WWTP Impr, LS Impr, SanSwr	\$ 1,878,000	\$ 3,425,000	X	
5536-01	Newberry	Luce Co	WWTP Impr - Phase I	\$ 2,103,500	\$ 3,480,000	X	
5497-01	Pinckney	Livingston Co	WWTP Aeration	\$ 615,000	\$ 615,000	X	

15 Projects

\$16,841,525 \$23,405,000

future projects

**State Revolving Fund (SRF)
Strategic Water Quality Initiatives Fund (SWQIF)
Priority List Ranking For SRF/SWQIF Projects**

AS REQUIRED BY PUBLIC LAW 92-500 (SRF), AS AMENDED, AND PARTS 52 (SWQIF) and 53 (SRF), ACT NO. 451 OF PA OF 1994

KEY TO PROJECT PRIORITY LIST HEADINGS

HEADING	DEFINITION
Rank	Order of eligibility for State Revolving Fund (SRF)/Strategic Water Quality Initiatives (SWQIF) loan funding in accordance with total points assigned.
Project Number	The identification number assigned to a project.
Project Name and Description	Name and location of applicant municipality. May include an additional identification when the applicant is a county or when more than one project is within the applicant area. The description identifies the basic type of project.
Water Quality Severity Pts	Points based on the pollutant load or the receiving water impairment that the proposed project will abate. The project is assessed in five categories (0-100 points each): 1. DO = Dissolved Oxygen 2. NUT = Nutrients 3. TOX = Toxic Materials 4. MICR = Microorganisms 5. GWD = Groundwater Discharge Total Water Quality Severity Points
Fin OSSS	On Site Septic Systems: Points (100) are assigned for projects addressing on site system failures where conditions prevent replacement, necessitating off site remedy. (SRF Only)
Sptg Rec	Septage Receiving: Points (100) are assigned if the project includes the construction of septage receiving facilities. (SRF Only)
Enf Pts	Enforcement points (300) are assigned if the project is necessary to comply with a construction schedule established by an order, permit, or other document issued by the director or entered as part of an action brought by the state against a municipality.
Pop Pts	Population points (30-100) are based upon the total existing residential population to be served by the project submitted. (SRF Only)
Exist. Disch	Existing flow discharged (mgd)
Rec Waters	Expected low flow of receiving of the receiving waters during the period of discharge.
Dil Ratio/Rat Pts	The dilution ratio points (25-100) are based upon a ratio derived from the existing flow discharged (Exist. Disch), divided by the expected flow of the receiving waters (Rec Waters) during the period of discharge.
Tot Pts	The sum of the above comprises the total points assigned to each project for determining rank.
Bind. Com Date	The date projected by DEQ, based on the applicant's intentions, that it will issue a binding commitment for an SRF/SWQIF loan.
Bind. Com Amount	The estimated dollar amount of the SRF/SWQIF loan.
PROJECTS WITH PRIOR YEAR SEGMENTS	As specified by law and rule, after funding assistance for the first segment of a project is accepted, remaining segments retain first priority for funding assistance on the next three fiscal year Project Priority Lists. Project segments are ranked in order of total points.
PROJECTS WITHOUT PRIOR YEAR SEGMENTS	No segments of the listed project have been funded in the prior three fiscal years. Projects are ranked in order of total points.

Note: These criteria are specified in the Department of Environmental Quality's State Administrative Rules 323.958 (Rule 8) and 323.961 (Rule 11) and Parts 52 & 53 of Act No. 451 of PA of 1994.