

STATE OF MICHIGAN  
**GROUNDWATER DISCHARGE AUTHORIZATION  
APPLICATION**  
for  
the disposal of wastewater  
to the ground or groundwater



Permits Section  
Groundwater Permits Unit  
Water Bureau  
Michigan Department of Environmental Quality

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## PREFACE

This document contains a set of instructions and the application form necessary to apply for a groundwater discharge authorization. The instructions are organized to allow you to determine what type of authorization is required and how to obtain it.

The **instructions** first list several types of groundwater discharges that are prohibited, then several types of discharges that are automatically authorized, referred to as exemptions. If the discharge you are proposing is on either of these lists, you will not need to submit an application form. All other discharge authorization requests are required to file an application form. The instructions go on to list several other specific types of discharges that can be authorized short of a full permit. If the discharge is not included among those listed, then you must apply for a permit under Rule 2218.

The **application form** has two parts. The first is general information, which must be filled out by all applicants. The general information section is found on Pages 14-17 of the application. The second half of the application is divided into sections that are specific to the type of authorization being sought. Authorizations issued under Rules 2211, 2213 and 2216 are for very specific discharges, and are listed in the instructions. All remaining discharges are authorized under Rule 2218. Once you have determined what type of authorization you require and filled out the general information section, you should locate the portion of the application specific to your discharge and fill out the appropriate information. Page 18 of this document contains a detailed index listing the specific pages to be filled out for each specific discharge.

**Please note:** The Rules require that the applicant must provide all information necessary to make a permit decision. Applications that do not contain all necessary information will be returned as incomplete.

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## **A. GENERAL INFORMATION**

### **1. WHO MUST APPLY FOR A PERMIT?**

Section 3112(1) of Part 31, Water Resources Protection, of the Michigan Natural Resources and Environmental Protection Act of 1994, PA 451 as amended (Act 451) states that any person discharging any waste or waste effluent into the waters of this state must be in possession of a valid authorization to discharge from the Michigan Department of Environmental Quality (department).

A "person" is defined as an individual, partnership, corporation, association, governmental entity, or other legal entity.

### **2. PURPOSE**

The purpose of the Part 22 Rules is to preserve the quality of groundwater for all of its protected uses, both current and potential future uses. Section 3109(1) of Act 451 prohibits the direct or indirect discharge into any waters of the state any substance that is or may become injurious to any protected uses of those waters. The department enforces this prohibition through the "Part 22" Administrative Rules, contained at M.A.C. R323.2201 through 2240. These rules are referenced in this document as Rule 2201 through 2240. The protected uses include public health, safety, and welfare; domestic, commercial, industrial, agricultural, recreational or other uses that may be made of such waters; the value or utility of riparian lands; and the use of the water by livestock, wild animals, birds, fish, aquatic life, or plants or the growth or propagation of those entities.

### **3. INFORMATION REQUIREMENTS FOR ALL DISCHARGERS**

**Rules 2206 and 2217** require that you must provide all information for the Department to make a decision regarding an application for a groundwater discharge authorization. If the information is not provided, the application will be returned as incomplete.

### **4. REQUIREMENTS FOR ALL DISCHARGERS**

Rule 2204 establishes certain requirements for all dischargers. These are:

1. The discharge must not become injurious.
2. The discharge must not cause runoff to, ponding of, or flooding of adjacent property.
3. The discharge must not cause erosion.
4. The discharge must not cause nuisance conditions.
5. The discharge must be located not less than 100 feet inside the boundary of the property where the discharge occurs, unless authorized by Rule 2210, 2211, 2213 or a lesser distance is approved by the department.
6. The discharge must be isolated from water supply wells as indicated in Rule 2204(2)(d).
7. The discharge must not create a facility under Part 201 of Act 451.

There are certain operational requirements for each type of discharge that must be met after an authorization is issued. Those requirements are found in Appendix B, Pages 45-46 of the application form.

### **5. DISCHARGE PROHIBITIONS**

Rule 2205 prohibits:

1. A discharge without an authorization under Rule 2204.
2. A discharge from a general-purpose floor drain unless authorized under Rule 2210(v), Rule 2215 or 2218.
3. A discharge of wastewater originating from a structure within 200 feet of an available public sanitary sewer system, except for a discharge of non-contact cooling water or a discharge from a groundwater remediation activity. For sanitary sewage, an available public sanitary sewer system is defined by section 12751(a) of Act 368 of the Public Acts of 1978, as amended, being 333.12751(a) of the Michigan Compiled Laws. For any other discharge, the department must make a determination of availability based on the ability of the public sanitary sewer system to treat the wastewater and the costs associated with providing the treatment.

## **6. WHAT SETBACK REQUIREMENTS MUST I MEET FOR MY DISCHARGE?**

If the discharge is authorized under Rules 2216 or 2218, the point of discharge must be at least 100 feet within the property boundary, unless an alternate distance is required or allowed by the department. Also, there are requirements under Rule 2204(2)(d) for isolation distances from existing water supply wells. The following table lists those isolation requirements.

Well Type	Permit Authorization – 2218, 2216(3)	All Other Authorizations
I, IIa	2000 feet	200 feet
IIb, III	800 feet	75 feet
Domestic	300 feet	50 feet

## **7. WHAT IF I HAVE AN EXISTING PERMIT, AND THERE IS A CHANGE IN MY DISCHARGE?**

If you anticipate there will be a change in either the quantity or quality of your discharge, you must notify the department prior to making the change. Within 30 calendar days of receiving the notice of modification, the department will notify you whether the modification is considered minor or significant. If the department determines the change is **minor**, you can make the changes you have identified, and the existing permit will be modified to reflect those changes. The department will send you a copy of the amended permit. If the changes are determined to be **significant**, then you must reapply for a permit by completing the application form and submitting it to the department for review and approval.

## **8. HOW DO I DEMONSTRATE EQUIVALENCY?**

In many instances, the Part 22 rules allow you to provide equivalent information or alternative ways of meeting the conditions of the Rules. To demonstrate equivalency, you should provide both a narrative description and technical data to show that the alternative proposed meets the intent and achieve the same purpose as the Rule in question. For example, there are specific requirements for source water for Fruit & Vegetable washwater, Rule 2211(c), including municipal water, a water source meeting state or federal criteria, or water meeting standards of Rule 2222. An alternative water source not specified is surface water. If you wish to use surface water, you need to describe and demonstrate, possibly through water quality testing, how the surface water meets the intent of the Rule and provides equivalent environmental protection to the sources specified in the Rule.

# **B. IDENTIFYING THE TYPE OF AUTHORIZATION REQUIRED**

This section lists all of the specific discharges identified in the Part 22 Rules. You should review the list and determine if your discharge is listed, and then follow the directions for how that particular discharge receives authorization.

## **1. EXEMPTIONS**

Pursuant to Rule 2210 the activities listed below are automatically authorized and are exempt from obtaining a further authorization from the department, provided the requirements of Rule 2204 are met. You do not need to submit an application form.

- (a) **Sanitary sewage** in either of the following circumstances if the sanitary sewage is not mixed with other waste:
  - (i) **The discharge is less than 1,000 gallons per day** and the disposal system is approved by the county, district, or city health department that has jurisdiction in accordance with either the requirements of the local sanitary code or the provisions of the publication entitled "Michigan Criteria for Subsurface Sewage Disposal," April 1994. Copies of the publication may be obtained without charge at the time of adoption of these Rules from the Michigan Department of Environmental Quality, Water Division, P.O. Box 30630, Lansing, Michigan 48909.
  - (ii) **The discharge is less than 6,000 gallons per day**, the disposal system is designed and constructed in accordance with the provisions of the publication entitled "Michigan Criteria for Subsurface Sewage Disposal," April 1994, and the system is approved by the county, district, or city health department that has jurisdiction. Copies of the publication may be obtained without charge at the time of adoption of these Rules from the Michigan Department of Environmental Quality, Water Division, P.O. Box 30630, Lansing, Michigan 48909.

- (b) **Controlled application of any of the following:**
  - (i) An authorized substance to suppress dust. The following are authorized substances:
    - (A) Water.
    - (B) Calcium chloride.
    - (C) Lignosulfate products.
    - (D) Emulsified asphalt or resin stabilizers.
    - (E) Vegetable by-products.
  - (ii) A deicing substance.
  - (iii) A substance for a natural resource or right-of-way maintenance program.
  - (iv) A substance for a domestic activity.
  - (v) A commercially manufactured pesticide or fertilizer for its intended use.
- (c) **Stormwater**, other than from a secondary containment facility, when discharged through surface infiltration.
- (d) **Stormwater** from a secondary containment facility that does not contain leaks or spills if the stormwater is inspected to ensure it meets the standards established in Rule 2222.
- (e) **Water from a well used temporarily for dewatering at a construction site** if the water pumped does not create a site of environmental contamination under part 201.
- (f) **A discharge from an animal feeding operation** that has less than 5,000 animal units if the discharge is determined by the director of the department of agriculture or his or her designated representative, to be in accordance with generally accepted agricultural and management practices, as defined in Act No. 93 of the Public Acts of 1981, as amended, being 286.471 to 286.474 of the Michigan Compiled Laws, and known as the Michigan right to farm act. For purposes of this Rule, 5,000 animal units is equal to 5,000 head of slaughter or feeder cattle, 3,500 mature dairy cattle, 12,500 swine weighing more than 25 kilograms or approximately 55 pounds, 50,000 sheep or lambs, 2,500 horses, 275,000 turkeys, 150,000 laying hens or broilers, or 25,000 ducks. An animal feeding operation is a lot or facility, or series of lots or facilities under one ownership which are adjacent to one another or which use a common area or system for the disposal of wastes, that meets both of the following conditions:
  - (i) Animals, other than aquatic animals, have been, are, or will be stabled or confined and fed or maintained for a total of 45 calendar days or more in any 12-month period.
  - (ii) Crops, vegetation, forage growth, or postharvest residues are not sustained in the normal growing season over the portion of the lot or facility where animals are confined.
- (g) Less than 50 gallons of wastewater per day from a **commercial animal care facility**.
- (h) **Observation or monitoring well development or evacuation water**.
- (i) **Potable water used for a domestic or domestic equivalent activities** other than sanitary sewage disposal.
- (j) **Step test or pump test water** from any of the following:
  - (i) A potable well or well used to develop a potable water supply.
  - (ii) A well producing water that meets state or federal criteria for use as potable water.
  - (iii) A test well where the quality of the test well discharge water is equal to or better than the background groundwater quality of the aquifer receiving the discharge.
- (k) **Exfiltration from sanitary sewer collection systems**.
- (l) **Wastewater from a heat pump** that has a heat exchange capacity of 300,000 Btu per hour or less if there is no chemical additive to the system.
- (m) **Wastewater from a portable power washer** when used in either of the following circumstances:
  - (i) By the occupant of a household for washing buildings, vehicles, or other surfaces associated with the domestic occupation of the household.
  - (ii) By a commercial operator or in a commercial or industrial setting to remove nonpolluting substances from vehicles or surfaces when no additives are used and the washing process does not add significant pollutants to the water.
- (n) **Swimming pool drainage and backwash water** discharged in accordance with sections 12521 to 12534 of Act No. 368 of the Public Acts of 1978, as amended, being 333.12521 to 333.12534 of the Michigan Compiled Laws.
- (o) **Water treatment filter backwash water** if disposal is in accordance with plans and specifications approved by the department under Act No. 399 of the Public Acts of 1976, as amended, being 325.1001 et seq. of the Michigan Compiled Laws, and known as the safe drinking water act.

- (p) **Carpet cleaning wastewater** discharged by a noncommercial operator or by a commercial operator at a site receiving wastewater from not more than one location where carpet cleaning has occurred.
- (q) **Less than 10,000 gallons per day of noncontact cooling water** that does not contain additives if the source of the cooling water is any of the following:
  - (i) A municipal water supply.
  - (ii) A water supply meeting state or federal criteria for use as potable water.
  - (iii) Another source of water meeting the standards of Rule 2222.
  - (iv) Another source approved by the department.
- (r) **Land application of process sludge from a wastewater treatment facility** treating sanitary sewage when applied in accordance with applicable state and federal law.
- (s) **Land application of process sludge from an industrial or commercial wastewater treatment facility** when authorized under R 299.4101 to R 299.4922, the administrative Rules implementing Part 115.
- (t) **Placement of other solid waste on the ground when authorized under Part 115.** This provision does not apply to the disposal of wastewater generated through the operation of a facility licensed under Part 115.
- (u) **Wastewater associated with an environmental response activity** described in any of the following paragraphs if the discharge is to the plume of groundwater contamination, including an area 100 feet hydraulically upgradient of the edge of the plume, and any additive used in the treatment process that is not part of the contamination plume meets the standards of Rule 2222:
  - (i) A pump test discharge that does not change the physical dimensions of the plume in groundwater or, if the dimensions are changed, the changes are accounted for in the design of the final groundwater remediation plan.
  - (ii) A remedial investigation, feasibility study, or remedial action discharge that is at or below the residential criteria authorized by section 20101a(1)(a) of the act, if applicable, or section 21304(a) of the act, if applicable.
  - (iii) A discharge for a remedial investigation, feasibility study, or remedial action above the residential criteria authorized by section 20101a(1)(a) of the act, if applicable, or section 21304(a) of the act, if applicable, if a remediation investigation, feasibility study, or remediation plan has been approved by the department division that has compliance oversight. The remediation plan must indicate that the treatment system is designed and will be operated so that contaminated groundwater will eventually meet the appropriate land use-based cleanup criteria authorized by section 20120a(1)(a) to (d) of the act, if applicable, or section 21304(a) of the act, if applicable.
- (v) **Precipitation and snow melt drainage off vehicles** discharged through a general-purpose floor drain in a parking structure in which maintenance activities do not occur.
- (w) A discharge that has been specifically authorized by the department under a permit if the permit was not issued under this part.
- (x) A discharge that occurs as the result of **placing waste materials on the ground in compliance with a designation of inertness issued under part 115 or leaving contaminated materials in place in compliance with part 201 or 213.**

## **2. OTHER DISCHARGE SPECIFIC EXEMPTIONS.**

Rule 2210 (y) allows discharges other than those listed above to be exempted from permitting on a case by case basis, if the department determines the discharge has an insignificant potential to be injurious based on volume and constituents.

**To apply for an exemption according to Rule 2210(y)**, you should fill out pages 14-17 of the application, which contain general information about the facility. You should also provide the information required on Page 40 of the application. The department will notify you whether your application qualifies for an exemption under Rule 2210(y), or whether you must apply for a different authorization. You are not authorized to discharge until you receive approval from the department.

### **3. IF I DON'T QUALIFY FOR AN EXEMPTION, WHAT SORT OF AUTHORIZATION DO I NEED?**

The following chart lists **specific** discharges for which you must submit an application prior to authorization. The chart also contains the Rule that describes the authorization and the **page numbers in the application** that relate to that specific authorization. Please note that there are specific qualifications that must be met for each of the authorizations listed which are contained in the Part 22 rules.

<u>Discharge Type</u>	<u>Volume Limitation</u>	<u>Rule</u>	<u>Authorization</u>	<u>Page #</u>
Commercial Animal Care	>50 gpd but <1,000 gpd	2211(h)	Notification	19, 22
Contact Cooling Water	< 5,000 gpd	2213(4)	Notification w/Certification	23, 25
Egg Washing	< 10,000 gpd	2213(3)	Notification w/Certification	23, 24
Fruit & Vegetable Washing	< 50,000 gpd	2211(d)	Notification	19, 20
Gravel, sand, limestone, dolomite mining		2215(4)	General Permit	27, 30
Hydrostatic Pipe Testing, Flushing	None	2211(g)	Notification	19, 21
Laundromat	< 500 gpd	2211(b)	Notification	19, 20
Laundromat	< 20,000 gpd	2216(4)	Permit, specific discharge	32, 35
Non-contact Cooling Water, w/additives	< 10,000 gpd	2213(2)	Notification w/Certification	23, 24
Non-contact Cooling Water, no additives	> 10,000 gpd	2211(c)	Notification	19, 20
Oil Field Brine		2215(5)	General Permit	27, 30
Portable Power Wash	1,000 gal/mo/acre	2211(e)	Notification	19, 21
Sanitary Sewage	6,000-10,000 gpd	2211(a)	Notification	19, 20
Sanitary Sewage, above ground treatment	<10,000 gpd	2215(1)	General Permit	27, 28
Sanitary Sewage, Construct Wetland	< 20,000 gpd	2216(2)	Permit, specific discharge	32, 33
Sanitary Sewage, Specific Treatment	< 50,000 gpd	2216(3)	Permit, specific discharge	32, 34
Slaughterhouse	< 2,000 gpd	2215(3)	General Permit	27, 29
Groundwater Remediation:				
Pump Test Outside Plume	None	2211(f)	Notification	19, 21
Remediation, Outside Plume	None	2213(5)	Notification w/Certification	23, 26
Vehicle Wash, not open to public	< 2,000 gpd	2215(2)	General Permit	27, 28
Vehicle Wash, open to the public	< 3,000 gpd	2215(6)	General Permit	27, 31

gpd = gallons per day  
gal/mo/acre = gallons per month per acre  
< = less than  
> = greater than

### **4. WHAT IF MY DISCHARGE TYPE DOES NOT APPEAR ON ANY OF THESE LISTS?**

If your discharge does not appear on any of the previous lists, either as an exemption or a specific discharge permit, you must apply for a discharge authorization under Rule 2218. The section of the application that must be filled out specific to Rule 2218 begins on Page 36.

## **C. Rule 2218**

### **1. IF I HAVE TO APPLY FOR AN AUTHORIZATION UNDER RULE 2218, WHAT TYPE OF INFORMATION MUST I PROVIDE?**

Facilities that are authorized under Rule 2218 must provide the following types of information as part of the application:

- a) An evaluation of the feasibility of alternatives to discharge to the groundwater in accordance with Rule 2219.
- b) The basis of design as required by Rule 2218(2).
- c) The hydrogeological report as required by Rule 2221.
- d) The wastewater characterization as required by Rule 2220.
- e) If a standard applicable to the discharge is to be determined under Rule 2222(5), the information necessary to determine that standard, including whether a substance is a hazardous substance under part 201.
- f) The groundwater, or other media, sampling and analysis plan as specified by Rule 2223.
- g) A description of the discharge methods and information that demonstrate that the land treatment requirements of Rule 2233 will be met.
- h) If a lagoon is included in the treatment process, information that demonstrates that the requirements of Rule 2237 will be met.

Technical guidance documents have been drafted for items c,d,e,g and h above. They are identified in Part I, Section D.4 as additional reference materials. Sections C.2, C.3 and C.4 of these instructions provide guidance for the other information requirements of Rule 2218.

You are also responsible for meeting the groundwater quality standards contained in Rule 2222. You must meet the standards either in the discharge, or in the groundwater if treatment that takes place after discharging the wastewater to the ground. The standards themselves are complex, and it is strongly recommended that you schedule a pre-application meeting to discuss them with program staff. The process for requesting a meeting is found on Page 12, Section D.1 of these instructions. If you wish to investigate the standards on your own, the Part 22 Rules, including Rule 2222, are available on the Internet at the following location, <http://www.deq.state.mi.us/wmd/GWP/index.html>. You may also contact staff at the address or phone number found on Page 13 of these instructions for printed copies of the rules.

## **2. RULE 2219 - EVALUATION OF FEASIBILITY OF ALTERNATIVES TO DISCHARGE TO GROUNDWATER**

Prior to applying for a Rule 2218 authorization, you must conduct an evaluation of the feasibility of alternatives to discharging to the groundwater and submit that as part of the application. The analysis should contain, at a minimum, the items listed below. Feasibility includes the practical ability to implement the alternative and a comparison of the cost of the alternative to its benefits.

At a minimum, alternatives to the discharge that must be considered are:

- (a) minimizing the volume and toxicity of the wastewater.
- (b) recycling wastewater.
- (c) connecting to a municipal sanitary sewer system.
- (d) discharging to surface water.

Alternatives for minimizing the volume and toxicity of wastewater include pollution prevention opportunities, including the following:

- (a) Equipment or technology modifications.
- (b) Process or procedure modifications.
- (c) Reformulation or redesign of products.
- (d) Substitution of raw materials.
- (e) Improvements in housekeeping, maintenance, training, or inventory control.

The following treatment systems must be considered for substances determined to be in the discharge by the characterization required by Rule 2220:

- (a) For a metal, the following:
  - (i) Flocculation.
  - (ii) Settling.
  - (iii) Oxidation.
  - (iv) Filtration.
  - (v) Ion exchange
  - (vi) Reverse osmosis.
  - (vii) Electrolytic recovery.
- (b) For a volatile substance, the following:
  - (i) Carbon adsorption.
  - (ii) Air stripping.
  - (iii) Aeration.
- (c) For a nonvolatile substance, the following:
  - (i) Sorption.
  - (ii) Settling.
  - (iii) Filtration.

For a substance that degrades biologically, biological treatment in a lagoon, tank, or biological reactor or through controlled land treatment.

### **3. RULE 2218(2), BASIS OF DESIGN**

At the time of application, you must submit a basis of design for the treatment system. The basis of design should include all of the following information:

- (a) The volume of wastewater to be treated per unit of time.
- (b) An analysis of the influent, or a description of the anticipated influent, including the substances to be treated to meet the requirements of Rule 2222 and the concentrations of the substances.
- (c) A description of the existing or proposed treatment, or both, including, where applicable, the following:
  - (i) The treatment methods before discharge.
  - (ii) To the extent applicable, engineering plans depicting all of the following:
    - (A) A schematic flow diagram.
    - (B) Information on unit processes.
    - (C) Flow rates.
    - (D) Design hydraulic capacity.
    - (E) Pollutant loading.
    - (F) Detention times.
    - (G) Sizing of treatment units.
    - (H) Design calculations for major treatment units.
    - (I) A description of sludge management.
  - (iii) A discharge management plan that includes, where applicable, all of the following information:
    - (A) Maximum daily and annual discharge volumes.
    - (B) The total discharge area.
    - (C) Scheduled maintenance.
    - (D) Vegetative cover control and removal.
    - (E) Load and rest cycles.
    - (F) Application rates.
    - (G) Means for even distribution of waste or wastewater.
    - (H) Strategies for periods of adverse weather.
    - (I) Monitoring procedures.
    - (J) Other pertinent information.
- (d) For a discharge of sanitary sewage, unless the Rules provide otherwise, the treatment system must be consistent with the standards in chapter 10 of the publication entitled "Engineering Reports and Facility Plans of the Recommended Standards for Wastewater Facilities" 1997 edition. The standards in chapter 10 are adopted by reference in the Rules. The standards may be purchased from Health Education Services, P.O. Box 7126, Albany, New York 12224, or from the Michigan Department of Environmental Quality, Water Division, P.O. Box 30630, Lansing, Michigan 48909, at a cost at the time of adoption of these Rules of \$12.00, plus shipping and handling.

### **4. RULE 2223 - DISCHARGE MONITORING.**

You are required to monitor your discharge in a manner, at a frequency, and for a substance(s) the department specifies are necessary to assess compliance with these Rules. The components of a monitoring program are:

- (1) Monitoring of an indicator parameter may be used in monitoring if the technique accurately reflects the effect of the discharge. An indicator parameter must be representative of the environmental fate of a substance or substances in the discharge and must be one of the following:
  - (a) A substance in the discharge.
  - (b) A decomposition material of a substance.
  - (c) A sampling parameter that can be directly correlated to the concentration of another substance in the discharge.
- (2) Groundwater monitoring must include the collection of water quality and water level data from a well or group of wells that are specifically designed to adequately assess the impact of the discharge on groundwater. The design of the groundwater monitoring system must be based on all of the following:
  - (a) The hydrogeologic report.
  - (b) Considerations of the local geology.
  - (c) Groundwater conditions specific to each site.
  - (d) The type of discharge.

- (3) At the time of application for a permit under Rule 2218, an applicant must propose, for department approval, a groundwater sampling and analysis plan that establishes criteria for collecting representative samples of groundwater. The plan must contain all of the following information:
  - (a) The number and location of wells to be included in the groundwater monitoring system.
  - (b) For each well, the depth and screened interval for each monitor well. The screened interval must be referenced to United States geological survey data.
  - (c) Well construction materials and installation techniques.
  - (d) Sampling frequency.
  - (e) A list of substances to be sampled.
  - (f) Sampling procedure, including all of the following:
    - (i) The method and volume of water removed from each well during sampling.
    - (ii) Steps taken to prevent cross contamination between wells.
    - (iii) Sample handling and preservation methods.
    - (iv) Laboratory analysis method.
    - (v) Laboratory method detection level.
    - (vi) Quality assurance and quality control program.
  - (g) A description of the techniques used to present and evaluate groundwater quality monitoring data.
  - (h) A description of the method used to collect static water levels and present groundwater flow data. Static water level precision must be to 0.01 foot.
- (4) A discharger must design, construct, and abandon a monitoring well as follows:
  - (a) A monitoring well must be located at a depth where the screened interval will intercept the path of any discharge from the site in the groundwater.
  - (b) If the thickness of the aquifer receiving the discharge is more than 20 feet, then at least one hydraulically downgradient monitor well location must contain a cluster well. The separation and length of the screens must be such that discrete groundwater potentiometric surface data can be collected to determine vertical gradients within the aquifer.
  - (c) Monitor well construction and sampling equipment materials must not influence the sampling results for the substances sampled.
  - (d) A monitor well must be designed to collect an adequate volume of water to allow analysis for the complete set of substances indicative of the discharge.
  - (e) Annular space between the borehole and the well must be grouted from the ground surface to two feet above the well screen to prevent vertical leakage of the fluids between the casing and the drill hole. When drilling through confining layers, a discharger must install double-cased wells to prevent the hydraulic connection of fluids between formations above and below the confining layer.
  - (f) A well must be protected against the introduction of contaminants by means of a locking device or by another method approved by the department.
  - (g) A well must be vented so that accurate static water levels may be collected, or well caps must be removed a sufficient amount of time before measurement so that representative static water levels can be measured. Care must be taken to prevent the introduction of contaminants through vents.
  - (h) The well casing must be adequately marked and protected against accidental damage.
  - (i) A well must be labeled so that the discharger's name, address and the well number can be determined through the life of the permit.
  - (j) If a monitoring well is to be permanently abandoned, a discharger must follow the plugging procedures in part 127 of Act No. 368 of the Public Acts of 1978, as amended, being 323.12701 to 323.12715 of the Michigan Compiled Laws.
  - (k) A discharger must receive department approval before installing, replacing, redeveloping, or abandoning a monitoring well that is part of the discharge-monitoring program.
- (5) If necessary to measure compliance with a standard established under Rule 2222, the department may specify the monitoring of media in addition to groundwater.
- (6) A monitoring program under this Rule must be evaluated by the department on the basis of the threat the discharge poses to protected uses given all of the following factors:
  - (a) The substances in the discharge.
  - (b) The volume of the discharge.
  - (c) The amount of information related to predicting the impacts of a discharge developed through the hydrogeological report prepared under Rule 2221.

## **D. APPLICATION PROCESS**

At this point, you should be aware of the type of authorization that you will need from the department. This section describes the process of filing an application form with the department, formally requesting the authorization.

### **1. WHEN DO I HAVE TO APPLY?**

For **new discharges or significant changes to an existing discharge**, you must submit the application at least 180 days in advance of the proposed date of discharge or significant change (Rule 2106). Permits are generally issued for five years, at which time an updated application must be submitted. For **reissuance** of an existing permit, you must submit the completed application form and the necessary attachments **180 days prior to the expiration date** of your current permit (Rule 2151(1)).

It is strongly recommended, especially prior to submitting an initial application or an application for a Rule 2218 authorization, that you request a pre-application meeting with staff of the Groundwater Section, Water Division. Technical staff will be available to discuss the proposed discharge, and can answer questions and provide information to you regarding such items as treatment alternatives, hydrogeologic studies, waste characterization, etc. It is recommended that you and/or your consultant be prepared to describe, at least in general terms, the basis of design for the proposed or existing wastewater treatment and disposal facilities.

To arrange a pre-application meeting, please contact:

Groundwater Permits Unit Chief  
Permits Section  
Water Bureau  
PO Box 30273  
Lansing, MI 48909  
Telephone: 517-373-8148  
Fax: 517-241-8133

### **2. HOW IS THE FORM ORGANIZED?**

The application form is divided into two sections. Section I, pages 14-17, consists of general information that must be filled out by all applicants. (Occasionally, especially for general permits, not every item in Section I will be required, so please only fill out the applicable portions. For example, if you are applying for a General Permit under Rule 2215 for brine spreading, you would not fill out Item 7 which requests a CMR address). Section II contains information that must be filled out for specific discharges. An index appears after the general information section of the application, Page 18, which lists all of the specific discharges, Rules 2213 through 2216, and other discharges, covered under Rule 2218, and directs you to the appropriate pages for each particular discharge. Many of the discharges require supporting documentation of one kind or another. There are guidesheets available, listed on Page 13 as available reference materials, which provide guidance on how to gather and report the information in a manner that is acceptable to the Department. This does not preclude you from using alternative methods. It only means that if the guidance is followed very carefully, the methodology for collecting and reporting the information will be acceptable.

### **3. WHO MUST SIGN THE FORM?**

The Part 21 Rules have very specific requirements for who must sign an application form. For a **corporation**, the form must be signed by a principal executive officer of at least the level of vice president, or his/her designated representative, if the representative is responsible for the overall operation of the facility from which the discharge described in the permit application (appropriate documentation must be provided to demonstrate the position and responsibility of the designated representative). For a **partnership**, the form must be signed by a general partner, for a sole proprietorship, by the proprietor. For **municipal, state or other public facility**, the form must be signed by either a principal executive officer, the mayor, village president, city or village manager or other duly authorized employee. All signatures submitted to the department must be **original signatures**, or the application will be returned to you. The details of these requirements are found in Rule 2114.

#### **4. WHAT ADDITIONAL REFERENCE MATERIALS ARE AVAILABLE?**

The following are a list of the acts, rules, forms and other items that can be obtained from the Groundwater Program Section to assist an applicant in filling out an application form and providing information necessary to obtain a groundwater discharge permit or permit exemption:

1. Part 31 Water Resources Protection of Act 451
2. Part 41 Sewerage Systems of Act 451
3. Part 21 Wastewater Discharge Permits - Rules of Part 31 of Act 451
4. Part 22 Groundwater Quality - Rules of Part 31 of Act 451
5. Communities Participating in the Michigan Wellhead Protection Plan
6. Guidesheet I Guidance document for hydrogeologic studies
7. Guidesheet II Guidance document for irrigation management plans
8. Guidesheet III Guidance document for waste characterization
9. Guidesheet IV Guidance document for wastewater treatment and storage lagoons
10. Guidesheet V Guidance document for development of toxicology information
11. Guidesheet VI Guidance document for the Operation and Maintenance Manual

#### **Requests for any of the above items should be made to:**

Permits Section  
Groundwater Permits Unit  
Water Bureau  
Michigan Department of Environmental Quality  
P. O. Box 30273  
Lansing, Michigan 48909  
Telephone: 517-373-8148  
FAX: 517-241-8133

There is a charge of 5 cents per page to cover handling costs.

**This information is also available electronically on the Internet at the following address:**

**[http://www.michigan.gov/deq/0,1607,7-135-3313\\_4117---,00.html](http://www.michigan.gov/deq/0,1607,7-135-3313_4117---,00.html)**

#### **5. WHAT IF I HAVE QUESTIONS?**

If you have questions about the form or process, please call or fax your questions to the following numbers:

Telephone: 517-373-8148  
FAX : 517-241-8133

#### **6. WHERE SHOULD I SEND THE COMPLETED FORM?**

Please provide **two copies, including the signed original**, of the application form and all pertinent attachments, to the following address:

Permits Section  
Groundwater Permits Unit  
Water Bureau  
Michigan Department of Environmental Quality  
P. O. Box 30273  
Lansing, Michigan 48909

#### **7. DO THE RULES SPECIFY OPERATIONAL REQUIREMENTS?**

Appendix B, Pages 45-46, provides an outline of the operational requirements that are mandated by the Part 22 Rules for each particular authorization. Please refer to the specific rule for detailed requirements.

#### **8. PENALTIES**

It is against the law to knowingly discharge wastewater into the groundwater without a permit or in violation of an existing permit. It is also against the law to intentionally make false statements in a permit application. A person who commits these offenses is guilty of a felony and substantial fines, and perhaps imprisonment, are the consequences. Section 3115(2) of Act 451 contains the details of the penalties associated with violating Part 31.

The Michigan Department of Environmental Quality (MDEQ) 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 Office of Personnel Services, PO Box 30473, Lansing, MI 48909
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# Groundwater Discharge Permit Application

REFERENCES IN THIS DOCUMENT TO "RULES" ARE TO ADMINISTRATIVE RULES IMPLEMENTING PART 31 OF THE NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT, 1994 PA 451, AS AMENDED, BEING R 323.2101 TO 2192 AND R 323.2201 TO 2240.

## GENERAL INFORMATION

Please type or print clearly

1. DISCHARGE FACILITY NAME		
2. FACILITY OWNER NAME AND MAILING ADDRESS		
Name		
Street Address or P.O. Box		
City, State and Zip Code		
Telephone No.	Draft permits authorized pursuant to <b>Rule 2210(y)</b> and <b>2218</b> will be sent electronically to owner. Owner Email: _____	
Fax No.		
3. CONTACT PERSON		
Name and Title		
Street Address or P.O. Box		
City, State and Zip Code		
Telephone No.	Fax No.	
4. DISCHARGE LOCATION		
Street Address		
City	State	Zip Code
County	Township	
Township	Range	Section Number
First Quarter Section	Second Quarter Section	Additional Quarter Sections
Latitude	Longitude	
5. FACILITY TYPE		
Municipal (Sanitary Only) _____	Municipal (w/ Sanitary and Industrial Wastewater Inputs) _____	
Industrial _____	Commercial _____	
If Municipal, population served _____		
6. CERTIFIED OPERATOR (NOT REQUIRED FOR 2211(c), (d), (e), (g), (h), or 2213 (2), (3), (4))		
A Certified Operator is required by Section 3110 (1) of Part 31 of Act 451.		
Name	Certification Number	
Street Address		
City	State	Zip Code
Telephone No.		

7. FOR RULE 2215, 2216 AND 2218 AUTHORIZATIONS ONLY:

PLEASE INDICATE WHERE THE COMPLIANCE MONITORING REPORT FORMS SHOULD BE SENT

NAME

STREET ADDRESS

CITY

STATE

ZIP CODE

8. AUTHORIZATION REQUESTED:

<input type="checkbox"/> Rule 2210(y), Site Specific Exemption	<input type="checkbox"/> NEW USE	<input type="checkbox"/> REISSUANCE
<input type="checkbox"/> Rule 2211, Notification	<input type="checkbox"/> NEW USE	<input type="checkbox"/> REISSUANCE
<input type="checkbox"/> Rule 2213, Notification with Certification	<input type="checkbox"/> NEW USE	<input type="checkbox"/> REISSUANCE
<input type="checkbox"/> Rule 2215, General Permit, Certificate of Coverage	<input type="checkbox"/> NEW USE	<input type="checkbox"/> REISSUANCE
<input type="checkbox"/> Rule 2216, Specific Discharges	<input type="checkbox"/> NEW USE	<input type="checkbox"/> REISSUANCE
<input type="checkbox"/> Rule 2218, Discharge Permit	<input type="checkbox"/> NEW USE	<input type="checkbox"/> REISSUANCE

IF REQUESTING A REISSUANCE OR AN AUTHORIZATION DIFFERENT THAN THE CURRENT AUTHORIZATION, PLEASE INCLUDE THE PERMIT/EXEMPTION NUMBER OF THE CURRENT AUTHORIZATION:

If the current authorization is a permit, Rules 2216 or 2218, or was issued prior to August 26, 1999, the number is: M\_\_\_\_\_

If the current authorization is a General Permit, Rule 2215, the number is: MG\_\_\_\_\_

If the current authorization is a site specific exemption, Rule 2210(y), or was issued prior to August 26, 1999, the number is: GWE-\_\_\_\_\_

If the current authorization is a notification, Rule 2211, the number is: GWN-\_\_\_\_\_

If the current authorization is a notification/certification, Rule 2213, the number is: GWC-\_\_\_\_\_

9. FACILITY STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODE. \_\_\_\_\_

This information is available through the US Department of Labor, Office of Safety and Health Administration, at the following web address: [www.osha.gov/oshstats/sicser.html](http://www.osha.gov/oshstats/sicser.html)

10. SITE MAPS

Provide two black and white 8 1/2" X 11" maps drawn to scale that show the following:

SITE MAP 1

- Discharge location in relation to property boundaries on a topographic map.
- Township and county name.
- North arrow orientation.

SITE MAP 2 - All sites must include item a, include items b-e as necessary.

- Current and proposed treatment units and discharge areas and distance to property lines.
- Monitoring wells on site and on adjacent properties.
- Potable wells on site and on adjacent properties.
- Surface waters, including wetlands, lakes, rivers, streams, and drains on the property.
- Distance between multiple disposal sites.

ATTACH SITE MAP TO THIS APPLICATION FORM

11. WATER USAGE DIAGRAM

Please attach an 8 1/2 x 11 diagram showing water usage at the facility, from supply to discharge. Include all flows such as sanitary, process water, etc. Please also indicate where in the system additives or other substances are added to the waste stream for which this authorization is being sought. The water balance should show daily average flow rates at influent, intake and discharge points and daily flow rates between treatment units. Please use actual measurements whenever possible.

12. OWNERSHIP OF TREATMENT SYSTEM AND DISPOSAL AREA

Are all parts of the treatment system and discharge areas ( e.g. treatment plant, underground piping or irrigation fields) located on property owned by the applicant? Yes \_\_\_\_\_ No \_\_\_\_\_

IF NO, ATTACH THE NAME AND ADDRESS OF THE PROPERTY OWNER WHERE THE DISCHARGE WILL OCCUR, AND A COPY OF THE WRITTEN PERMISSION TO DISCHARGE ON PROPERTY NOT OWNED BY THE DISCHARGER.

13. PROXIMITY OF TREATMENT SYSTEM TO A KNOWN SOURCE OF GROUNDWATER CONTAMINATION

Are there any known groundwater contamination sites within 1/4 mile of your disposal site?

Yes \_\_\_\_\_ No \_\_\_\_\_ Unknown \_\_\_\_\_

IF YES, ATTACH TO THE APPLICATION FORM A DESCRIPTION OF THE LOCATION AND CONTAMINANTS BEING REMEDIATED AT THE SITE.

14. ISOLATION DISTANCE

The following are isolation distances required from the discharge to adjacent water supply wells. What is the distance from your discharge to the nearest water supply well?

<u>WELL TYPE</u>	<u>PERMIT AUTHORIZATION: 2218, 2216(3)</u>	<u>ALL OTHER AUTHORIZATIONS</u>
I, IIa	2000	200
IIb, III	800	75
Domestic	300	50

Distance to nearest **Type I, IIa** water supply well \_\_\_\_\_

Distance to nearest **Type IIb, III** water supply well \_\_\_\_\_

Distance to nearest **Domestic** water supply well \_\_\_\_\_

15. ADJACENT PROPERTY OWNERS

List the names and addresses of all property owners adjacent to the facility, treatment systems and discharge locations. Include properties across roadways.

ATTACH ANY ADDITIONAL NAMES AND ADDRESSES TO THE APPLICATION FORM.

NAME	COMPLETE MAILING ADDRESS
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16. WELLHEAD PROTECTION

Is your facility located in a designated wellhead protection area? Yes \_\_\_\_\_ No \_\_\_\_\_

If yes, please identify the community\* \_\_\_\_\_

- Approved wellhead protection areas can be reviewed at the following web address:  
[http://www.michigan.gov/deq/0,1607,7-135-3313\\_3675\\_3695-59280--,00.html](http://www.michigan.gov/deq/0,1607,7-135-3313_3675_3695-59280--,00.html)

17. SIGNATORY REQUIREMENT

Pursuant to Rule 2114 of the Part 21 Rules, this application must have an original signature, and be signed by

the appropriate representative(s) as follows:

- A. For a corporation, the form must be signed by a principal executive officer of at least the level of Vice-president, or his/her designated representative, if the representative is responsible for the overall operation of the facility from which the discharge described in the permit application (appropriate documentation must be provided to demonstrate the position and responsibility of the designated representative).
- B. For a partnership, the form must be signed by a general partner.
- C. For a sole proprietorship, the form must be signed by the proprietor.
- D. For municipal, state or other public facility, the form must be signed by either a principal executive officer, the mayor, village president, city or village manager or other duly authorized employee.

**All signatures submitted to the department must be original signatures, or the application will be returned as incomplete.** The details of these requirements are found in Rule 2114.

**The department reserves the right to request information in addition to that supplied with this application if necessary to verify statements made by the applicant or for the department to make a determination required by Part 31, Water Resources Protection, Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451) and/or the Part 22 Rules associated with Part 31.**

**I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this document and all attachments. The information being submitted was collected and analyzed in accordance with the Part 22 Rules of Part 31 of Act 451, as amended. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.**

Print Name \_\_\_\_\_ Title \_\_\_\_\_

Representing \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

THE FOLLOWING INDEX SHOWS WHERE EACH OF THE DISCHARGE SPECIFIC PAGES ARE LOCATED. PLEASE FILL OUT THE APPROPRIATE PAGES FOR THE SPECIFIC DISCHARGE PROPOSED AND ATTACH ALL SUPPORTING DOCUMENTATION.

**PERMIT INDEX, AUTHORIZATION SPECIFIC INFORMATION**

RULE 2211 AUTHORIZATION:		RULE SPECIFIC
<u>WASTEWATER TYPE</u>	<u>DAILY MAXIMUM DISCHARGE, GALLONS</u>	<u>PAGES TO BE FILLED OUT</u>
(a) Sanitary Sewage	6,000 – 10,000	19, 20
(b) Laundromat	< 500	19, 20
(c) Non-contact Cooling Water	>10, 000	19, 20
(d) Fruit & Vegetable Washwater	< 50,000	19, 20
(e) Portable Power Washer		19, 21
(f) Pump test Water		19, 21
(g) Hydrostatic Test Water		19, 21
(h) Commercial Animal Care	50 - 1,000	19, 22

RULE 2213 AUTHORIZATION:

<u>WASTEWATER TYPE</u>		
(2) Non-contact cooling water, with additives	< 10,000	23, 24
(3) Egg washing wastewater	< 10,000	23, 24
(4) Cooling water	< 5,000	23, 25
(5) Groundwater remediation, outside plume		23, 26

RULE 2215 AUTHORIZATION

<u>WASTEWATER TYPE</u>		
00-1 Sanitary Sewage, above ground	< 10,000	27, 28
00-2 Vehicle wash, not open to public	< 2,000	27, 28
01-3 Slaughterhouse	< 2,000	27, 29
00-4 Gravel, sand, limestone, dolomite mining		27, 30
00-5 Oil Field Brine		27, 30
01-6 Vehicle wash, open to the public	<3,000	27, 31

RULE 2216 AUTHORIZATION: \*\*

<u>WASTEWATER TYPE</u>		
(2) Sanitary Sewage, Constructed Wetland	< 20,000	32, 33
(3) Sanitary Sewage, Specific 2216 Design	< 50,000	32, 34
(4) Laundromat wastewater	< 20,000	32, 35

RULE 2218 AUTHORIZATION, WHICH COVERS DISCHARGES NOT OTHERWISE LISTED

New Permits	36, 37
Reissuance Permit, No Modifications	36, 38
Reissuance Permits, With Significant Modifications	36, 39

RULE 2210(y) AUTHORIZATION, SITE SPECIFIC EXEMPTION 40

> = GREATER THAN  
 < = LESS THAN

\*\*RULE 2216 LISTS SPECIFIC DESIGN CRITERIA THAT MUST BE MET TO IN ORDER TO QUALIFY FOR THAT AUTHORIZATION. DISCHARGERS THAT MEET THE FLOW AND WASTEWATER CRITERIA, BUT DO NOT MEET THE DESIGN CRITERIA, MUST EITHER DEMONSTRATE EQUIVALENCY WITH THE RULE 2216 CRITERIA, OR APPLY FOR A PERMIT UNDER RULE 2218.

**PERMIT BY RULE; NOTIFICATION**

**RULE 2211**

**A facility is authorized to discharge at the time a complete application is received by the department. The permittee will receive an acknowledgement letter from the department, indicating that the application was considered complete or is deficient, in which case the discharge would not be authorized.**

**1. RULE 2211 AUTHORIZATION REQUESTED:**

<u>Wastewater Type</u>	<u>Daily Maximum Discharge, Gallons,</u>
_____ (a) Sanitary Sewage	6,000 – 10,000
_____ (b) Laundromat	< 500
_____ (c) Non-contact Cooling Water, w/o additives	>10, 000
_____ (d) Fruit & Vegetable Washwater	<50,000
_____ (e) Portable Power Washer	
_____ (f) Pump Test Water	
_____ (g) Hydrostatic Test Water	
_____ (h) Commercial Animal Care	50 - 1,000

**2. DISCHARGE VOLUME**

**ALL DISCHARGES:**

Maximum daily discharge: \_\_\_\_\_ gallons per day

Cumulative annual discharge: \_\_\_\_\_ gallons per year

**SEASONAL DISCHARGES SHOULD INCLUDE THE FOLLOWING:**

Discharge period \_\_\_\_\_ through \_\_\_\_\_

**3. DISCHARGE METHOD**

Please check the discharge method used:

<u>LAND SURFACE DISPOSAL</u>	<u>DISPOSAL CODE</u>	<u>SUBSURFACE DISPOSAL</u>	<u>DISPOSAL CODE</u>
_____ Spray Irrigation	A1f1	_____ Tile Field	A1g1
_____ Ridge and Furrow	A1f2	_____ Injection well	A1g2
_____ Flood/Sheet Irrigation	A1f3	_____ Trench	A1g3
		_____ Drywell	A1g4
<b>Seepage Beds:</b>			
_____ Slow/Medium Rate	A1f4		
_____ Rapid Rate	A1f5		
_____ Other - Please describe:			

a. **Sanitary Sewage, Rule 2211(a), 6,000-10,000 gallons per day.** Please check all system characteristics that apply to this specific discharge:

- Discharge is between 6,000 and 10,000 gallons per day.
- Sanitary sewage is not mixed with other waste.
- System is, or is to be, designed in accordance with "Michigan Criteria for Subsurface Sewage Disposal."
- The system has been approved by the county, district or city health department having jurisdiction.
- If the facility was constructed or expanded after August 26, 1999, the flow is monitored by a meter.

b. **Laundromat Wastewater, Rule 2211(b), less than 500 gallons per day.** Please check all system characteristics that apply to this specific discharge:

- Discharge is less than 500 gallons per day.
- The treatment system consists of at least two 1,000 gallon septic tanks, followed by disposal to a tile field.
- There is an operational lint filter on the wastewater discharge line.
- The tile field is designed and constructed in accordance with "Michigan Criteria for Subsurface Sewage Disposal."
- The sanitary sewage is routed to the same septic tank or tanks as the laundry wastewater.

c. **Non-contact cooling water, Rule 2211(c), more than 10,000 gallons per day, no additives.** Please check all system characteristics that apply to this specific discharge:

- The discharge is greater than 10,000 gallons per day.
- The non-contact cooling water contains no additives.

Please check which **one** of the following applies:

- The source water is from a municipal supply.
- The water source meets state or federal criteria for use as potable water.
- The water source meets the standards of Rule 2222.
- The water source is an alternative to the above. Department approval is required, and supporting documentation is attached.

d. **Fruit & Vegetable washwater, Rule 2211(d), less than 50,000 gallons per day.** Please check all system characteristics that apply to this specific discharge:

- The discharge is less than 50,000 gallons per day.
- There are no additives in the discharge.
- There are additives in the discharge which will not cause the groundwater to exceed the standards of Rule 2222.

Please check which **one** of the following applies:

- The source water is from a municipal supply.
- The water source meets state or federal criteria for use as potable water.
- The water source meets the standards of Rule 323.2222.
- The water source is an alternative to the above. Department approval is required, and supporting documentation is attached.

Please list all additives in the discharge, and the concentration of the additive in the effluent. The concentration can be submitted as an analysis of the wastewater, or as a mass balance calculation. Wastewater characterization, including the use of mass balance calculations, should follow the guidance found in Guidesheet III.

<u>ADDITIVE</u>	<u>ANNUAL USE RATE</u>	<u>CONCENTRATION</u> (Indicate how determined, A for analysis, M for mass balance. Please remember to include units of measurement.)
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e. **Portable Power Washer, Rule 2211(e).** Please check all system characteristics that apply to this specific discharge:

- Only household soap or detergent readily available to consumers are used for cleaning.

- \_\_\_\_\_ Additives other than soap and detergent are used only for their intended purpose and according to manufacturers directions.
- \_\_\_\_\_ A log of all locations where discharges occur will be maintained after receiving authorization to discharge, including date, address, additive(s) used, and item(s) washed.
- \_\_\_\_\_ Washing will be limited to removal of dirt and grime from the exterior of a vehicle, equipment, or a stationary source. It will not include the undercarriage of a vehicle, or the portion of a vehicle used to contained or transported substances as a product.
- \_\_\_\_\_ Discharge will be limited to less than 1000 gallons of washwater per month per acre where discharge occurs.

Please check which **one** of the following applies:

- \_\_\_\_\_ The source water is from a municipal supply.
- \_\_\_\_\_ The water source meets state or federal criteria for use as potable water.
- \_\_\_\_\_ The water source meets the standards of Rule 323.2222.
- \_\_\_\_\_ The water source is an alternative to the above. Department approval is required, and supporting documentation is attached.

**f. Pump test water associated with environmental remediation, Rule 2211(f), discharge outside plume.**

Please check all system characteristics that apply for this specific discharge:

- \_\_\_\_\_ Discharge meets the standards of Rule 2222.

**TREATMENT CODES**

Select and enter the appropriate treatment codes to describe treatment units, i.e., A1b, B2b (See APPENDIX A, Pages 41-44).

- Treatment Unit A        \_\_\_\_\_
- Treatment Unit B        \_\_\_\_\_
- Treatment Unit C        \_\_\_\_\_
- Treatment Unit D        \_\_\_\_\_

**TREATMENT SYSTEM**

Please describe how the current treatment system is/will meet the standards of Rule 2222 and the number of years it has been in operation.

**g. Hydrostatic testing or flushing water, Rule 2211(g).** Please check all system characteristics that apply to this specific discharge:

- \_\_\_\_\_ There are no additives in the discharge.
- \_\_\_\_\_ The testing is for new pipelines or tanks.

Please check which **one** of the following applies:

- \_\_\_\_\_ The source water is from a municipal supply.
- \_\_\_\_\_ The water source meets state or federal criteria for use as potable water.
- \_\_\_\_\_ The water source meets the standards of Rule 2222.
- \_\_\_\_\_ The water source is an alternative to the above. Department approval is required, and supporting documentation is attached.

**h. Commercial animal care, Rule 2211(h), between 50 and 1000 gallons per day.** Please check all system characteristics that apply to this specific discharge:

- The discharge is between 50 and 1,000 gallons per day.
- There are no additives in the discharge.
- There are additives in the discharge which will not cause the groundwater to exceed the standards of Rule 2222.
- The distance to the nearest surface water body is greater than 200 feet.

Please check which **one** of the following applies:

- The source water is from a municipal supply.
- The water source meets state or federal criteria for use as potable water.
- The water source meets the standards of Rule 323.2222.
- The water source is an alternative to the above. Department approval is required, and supporting documentation is attached.

Please list the name of all products used at the facility, and list all of the active ingredients for each of those products:

<u>PRODUCT NAME</u>	<u>MANUFACTURER'S NAME</u>	<u>ACTIVE INGREDIENTS</u>

**PERMIT BY RULE, NOTIFICATION WITH DEPARTMENT CERTIFICATION**

**RULE 2213**

**A facility is authorized to discharge when it receives a certification from the department that verifies the discharge is authorized under this part. Within 60 calendar days of receiving a complete notification form required by this Rule, the department will issue a certification or indicate why the discharger is not authorized to discharge under this Rule.**

**1. RULE 2213 AUTHORIZATION REQUESTED:**

<u>Wastewater Type</u>	<u>Daily Maximum Discharge, Gallons</u>
_____ (2) Non-contact cooling water, with additives	< 10,000
_____ (3) Egg washing wastewater	< 10,000
_____ (4) Cooling water	< 5,000
_____ (5) Groundwater remediation, outside plume	

**2. DISCHARGE VOLUME**

**ALL DISCHARGES:**

Maximum daily discharge: \_\_\_\_\_ gallons per day

Cumulative annual discharge: \_\_\_\_\_ gallons per year

**SEASONAL DISCHARGES SHOULD INCLUDE THE FOLLOWING:**

Discharge period \_\_\_\_\_ through \_\_\_\_\_

**IRRIGATION SYSTEMS AND SEEPAGE BEDS UTILIZING SOILS FOR TREATMENT SHOULD INLCUDE THE FOLLOWING:**

**Effluent application rate:**

Inches per hour \_\_\_\_\_ Inches per day \_\_\_\_\_ Inches per week \_\_\_\_\_ Inches per year \_\_\_\_\_

**3. DISCHARGE METHOD**

Please check the discharge method used:

<u>LAND SURFACE DISPOSAL</u>	<u>DISPOSAL CODE</u>	<u>SUBSURFACE DISPOSAL</u>	<u>DISPOSAL CODE</u>
_____ Spray Irrigation	A1f1	_____ Tile Field	A1g1
_____ Ridge and Furrow	A1f2	_____ Injection well	A1g2
_____ Flood/Sheet Irrigation	A1f3	_____ Trench	A1g3
		_____ Drywell	A1g4
<b>Seepage Beds:</b>			
_____ Slow/Medium Rate	A1f4		
_____ Rapid Rate	A1f5		
_____ Other - Please describe:			

2. **Non-contact cooling water with additives, Rule 2213(2), < 10,000 gallons per day.** Please check all system characteristics that apply to this specific discharge:

- The discharge is less than 10,000 gallons per day
- The additive(s) will not cause groundwater to exceed the standards of Rule 323.2222.

Please list the name and concentration of all additives in the discharge. The concentration can be submitted as an analysis of the wastewater, or as a mass balance calculation. Wastewater characterization, including the use of mass balance calculations, should follow the guidance found in Guidesheet III.

<u>ADDITIVE</u>	<u>ANNUAL USE RATE</u>	<u>CONCENTRATION</u> (Indicate how determined, A for analysis, M for mass balance. Please remember to include units of measurement)

3. **Egg Washing wastewater, Rule 2213(3), less than 10,000 gallons per day.** Please check all system characteristics that apply to this specific discharge:

- The discharge is less than 10,000 gallons per day.
- The additive(s) will not cause groundwater to exceed the standards of Rule 323.2222. For each additive, please fill out the additive information listed below.

Please check which **one** of the following applies:

- The source water is from a municipal supply.
- The water source meets state or federal criteria for use as potable water.
- The water source meets the standards of Rule 323.2222.
- The water source is an alternative to the above, approved by the Department.

Please list the name and concentration of all additives in the discharge. The concentration can be submitted as an analysis of the wastewater, or as a mass balance calculation. Wastewater characterization, including the use of mass balance calculations, should follow the guidance found in Guidesheet III.

<u>ADDITIVE</u>	<u>ANNUAL USE RATE</u>	<u>CONCENTRATION</u> (Indicate how determined, A for analysis, M for mass balance. Please remember to include units of measurement)

**4. Cooling water, Rule 2213(4), <5,000 gallons per day.** Please check all system characteristics that apply to this specific discharge:

- The discharge is less than 5,000 gallons per day.
- The discharge contains no additives.
- The discharge contains an additive, and it will not cause the groundwater to exceed the standards contained in Rule 2222.
- Wastewater has been characterized according to Rule 2220 and is listed below. Wastewater characterization, including the use of mass balance calculations, should follow the guidance found in Guidesheet III.
- If seeking a renewal of a previous authorization, the wastewater has been characterized annually and records are attached.
- If seeking a renewal of a previous authorization, the material cooled does not vary substantially from that used in seeking the original authorization.

Please list all additives in the discharge, and the concentration of the additive in the effluent. The concentration can be submitted as an analysis of the wastewater, or as a mass balance calculation. Wastewater characterization, including the use of mass balance calculations, should follow the guidance found in Guidesheet III.

**NOTE:** The discharger must characterize the wastewater annually, and submit the records of the annual characterization at the time of reissuance.

<u>ADDITIVE</u>	<u>ANNUAL USE RATE</u>	<u>CONCENTRATION</u> (Indicate how determined, A for analysis, M for mass balance. Please remember to include units of measurement)

**5. Groundwater remediation activities, clean up, discharge outside the plume, 2213(5).** Please check all system characteristics that apply to this specific discharge:

- The remedial action includes a groundwater extraction system designed and operated to prevent any portion of the plume above approved cleanup criteria from migrating beyond the zone of influence approved by the department division that has compliance oversight. The division having compliance oversight is:
  - Remediation and Redevelopment Division
  - Geological and Land Management Division
  - Waste and Hazardous Materials Division
  - Water Division
  - Other, please identify
- A memorandum from the chief, or his/her designated representative, of the department division responsible for compliance oversight of the remediation is included which certifies that the discharge applicable. meets the requirements of part 31, 111, 115, 201, 213, or 615, as applicable.
- A performance-monitoring plan was included in the remediation plan submitted to the department division responsible for compliance oversight. The plan included the following:
  - Groundwater monitoring wells have been installed within 150 feet of the discharge to verify that the standards of Rule 2222 are being met in groundwater.
  - Effluent and groundwater sampling to verify compliance with Rule 2213(5)(f).

\_\_\_\_\_ The frequency of sampling meets the requirements of Rule 2213(5)(e)(ii).

\_\_\_\_\_ Site map 1, required in Rule 2212(3)(m), should include the location of drinking water wells adequate to identify each water supply formation within ½ mile of the discharge. A copy of the well logs for each drinking water well identified on the map should be included.

\_\_\_\_\_ Site map 2, required in Rule 2212(3)(m) should include all of the following information:

- \_\_\_\_\_ Groundwater flow direction.
- \_\_\_\_\_ Extent of contamination plume.
- \_\_\_\_\_ Calculated capture zone.
- \_\_\_\_\_ Location of the groundwater extraction and interception system.
- \_\_\_\_\_ Location of all observation and monitoring wells.

**TREATMENT CODES**

Select and enter the appropriate treatment codes to describe treatment units, i.e., A1b, B2b (see APPENDIX A, Pages 41-44)

Treatment Unit A      \_\_\_\_\_

Treatment Unit B      \_\_\_\_\_

Treatment Unit C      \_\_\_\_\_

Treatment Unit D      \_\_\_\_\_

Please provide a description of the treatment system indicating how it will produce an effluent that will meet the standards of Rule 2222.


**GENERAL PERMIT  
RULE 2215**

**A facility is not authorized to discharge until it receives a Certificate of Coverage from the department that verifies the discharge is authorized under this part.**

**1. RULE 2215 AUTHORIZATION REQUESTED:**

<u>Wastewater Type</u>	<u>Daily Maximum Discharge, Gallons</u>
_____ 05-1 Above ground sewage disposal	< 10,000 (annual average)
_____ 05-2 Vehicle wash, not open to the public	< 2,000
_____ 05-3 Slaughterhouse	< 2,000 (annual average)
_____ 05-4 Gravel, sand, limestone, or dolomite mining	
_____ 05-5 Application of oil field brine	
_____ 05-6 Vehicle wash, open to public	< 3,000
_____ 05-7 Hydrodemolition	

**2. DISCHARGE VOLUME**

**ALL DISCHARGES:**

Maximum daily discharge: \_\_\_\_\_ gallons per day

Cumulative annual discharge: \_\_\_\_\_ gallons per year

**SEASONAL DISCHARGES SHOULD INCLUDE THE FOLLOWING:**

Discharge period \_\_\_\_\_ through \_\_\_\_\_

**IRRIGATION SYSTEMS AND SEEPAGE BEDS UTILIZING SOILS FOR TREATMENT SHOULD INCLUDE THE FOLLOWING:**

**Effluent application rate:**

Inches per hour \_\_\_\_\_ Inches per day \_\_\_\_\_ Inches per week \_\_\_\_\_ Inches per year \_\_\_\_\_

**3. CERTIFICATION OF DISCHARGE MINIMIZATION**

Please attach the steps identified and considered to avoid or minimize the use and discharge of pollutants according to Rule 2215(3).

**4. DISCHARGE METHOD**

Please check the discharge method used:

<u>LAND SURFACE DISPOSAL</u>	<u>DISPOSAL CODE</u>	<u>SUBSURFACE DISPOSAL</u>	<u>DISPOSAL CODE</u>
_____ Spray Irrigation	A1f1	_____ Tile Field	A1g1
_____ Ridge and Furrow	A1f2	_____ Injection well	A1g2
_____ Flood/Sheet Irrigation	A1f3	_____ Trench	A1g3
		_____ Drywell	A1g4
<b>Seepage Beds:</b>			
_____ Slow/Medium Rate	A1f4		
_____ Rapid Rate	A1f5		
_____ Other - Please describe:			

05-1. **Above Ground Sewage Disposal Systems, less than 10,000 gallons per day (annual average) Rule 2215.** Please check all system characteristics that apply to this specific discharge and fill appropriate blanks:

- Discharge is less than 20,000 gallons per day, calculated as a daily maximum.
- Discharge is less than 10,000 gallons per day, calculated as an annual average.
- A log will be maintained on site by the discharger of the daily discharge volume of sanitary sewage. The log shall be retained for a minimum of three years, and made available upon request by the Department.

**Property Ownership:**

- Discharge occurs on property owned by the applicant
- Discharge occurs on property not owned by the applicant. Please attach written authorization to discharge on that property from the property owner.

**Lagoon/Irrigation System:**

- Anticipated date when plans and specifications for the treatment system will be submitted to the Department.  
**NOTE:** Applicant cannot commence discharge until the Department notifies the discharger that the treatment system will meet the requirements of Rule 2204.
- The lagoon system is fenced and perimeter warning signs placed around the perimeter of the lagoon.
- Irrigation occurs between May 1 and October 15.
- If irrigating crops for human consumption, crops will be processed prior to consumption.
- Dairy animals will not be allowed to graze on fields until 30 days after the land application of wastewater.

**Isolation Distance:**

- Effluent will not be applied within 100 feet of the property line
- The Department has authorized a discharge less than 100 feet from the property line. The documentation for the lesser distance is included with this application, and is found in Attachment \_\_\_\_\_.

05-2. **Vehicle Wash Not Open to the Public, less than 2000 gallons per day, Rule 2215.** Please check all system characteristics that apply to this specific discharge:

- Discharge is less than 2000 gallons per day.
- The discharge consists of washwater with additives designed to remove non-polluting, inert substances from the exterior of vehicles, which excludes the washing of undercarriages or any portion of the vehicle that has come in contact with waste or products.
- Soaps, detergents and additives are used according to manufacturers directions, and do not include volatile organic compounds, such as degreasers.
- A log will be maintained on site by the discharger of the daily discharge volume of washwater with additives. The log shall be retained for a minimum of three years, and made available upon request by the Department.

**Isolation Distance:**

- Effluent will not be applied within 100 feet of the property line.
- The Department has authorized a discharge less than 100 feet from the property line. The documentation for the lesser distance is included with this application, and is found in Attachment \_\_\_\_\_.

Please check which **one** of the following applies:

- The source water is from a municipal supply.
- The water source meets state or federal criteria for use as potable water.
- The water source meets the standards of Rule 2222.
- The water source is an alternative to the above. Department approval is required, and supporting documentation is attached.

05-3. **Slaughterhouse Washwater with Additives, less than 2,000 gallons per day (annual average)**  
**Rule 2215.** Please check all system characteristics that apply to this specific discharge:

- The discharge is less than 2,000 gallons per day calculated as an annual average.
- The washwater shall only contain additives resulting from cleaning operations.
- Soaps, detergents and additives are used according to manufacturers directions, and do not include volatile organic compounds, such as degreasers.
- The discharger has taken steps to minimize the discharge of blood, fat, paunch and other solids.
- The wastewater is transported to the discharge location in enclosed containers.
- A log will be maintained on site by the discharger of the daily discharge volume of washwater with additives. The log shall be retained for a minimum of three years, and made available upon request by the \_\_\_\_\_ Department.

Please check which **one** of the following applies to the facility water source:

- The source water is from a municipal supply.
- The water source meets state or federal criteria for use as potable water.
- The water source meets the standards of Rule 2222.
- The water source is an alternative to the above. Department approval is required, and supporting documentation is attached.

**Location:**

- The facility is located in the Upper Peninsula.
- The facility is located in the Lower Peninsula.

**Property Ownership:**

- Discharge occurs on property owned by the applicant
- Discharge occurs on property not owned by the applicant. Please attach written authorization to discharge on that property from the property owner.

**Lagoon/Irrigation System:**

- Anticipated date when plans and specifications for the treatment system will be submitted to the Department.

**NOTE:** Applicant cannot commence discharge until the Department notifies the discharger that the treatment system will meet the requirements of Rule 2204.

- The lagoon system is fenced and perimeter warning signs placed around the perimeter of the lagoon.
- If irrigating crops for human consumption, crops will be processed prior to consumption.

**Growing Season:**

- Irrigation occurs between May 1 and November 15 in the Lower Peninsula, between May 1 and October 15 in the Upper Peninsula.
- The discharge is less than 4,000 gallons per acre per day.
- The irrigation area is vegetated to prevent erosion and provide adequate nutrient uptake.
- Effluent will not be applied within 100 feet of the property line.
- The Department has authorized a discharge less than 100 feet from the property line. The documentation for the lesser distance is included with this application, and is found in Attachment \_\_\_\_\_.

**Winter Season:**

- Irrigation occurs between November 16 and April 30 in the Lower Peninsula, between October 16 and April 30 in the Upper Peninsula.
- The discharge is less than 2,000 gallons per acre per week.
- The maximum total winter seasonal discharge is 10,000 gallons per acre.
- The irrigation area is vegetated to prevent erosion and provide adequate nutrient uptake.
- The irrigation area will be vegetated to prevent erosion and provide adequate nutrient uptake immediately after snow melt.
- The slope of the discharge area does not exceed two per cent.
- Effluent will not be applied within 400 feet of the property line, homes, buildings or surface water.
- The Department has authorized a discharge less than 400 feet from the property line. The documentation for the lesser distance is included with this application, and is found in Attachment \_\_\_\_\_.

05-4. **Gravel, sand, limestone, or dolomite mining, Rule 2215.** Please check all system characteristics that apply to this specific discharge:

The discharge consists of washwater without additives, used for the purpose of washing and sorting uncontaminated gravel, sand, limestone or dolomite.

A log will be maintained on site by the discharger of the daily discharge volume of washwater without additives. The log shall be retained for a minimum of three years, and made available upon request by the \_\_\_\_\_ Department.

**Property Ownership:**

Discharge occurs on property owned by the applicant

Discharge occurs on property not owned by the applicant. Please attach written authorization to discharge on that property from the property owner.

**Isolation Distance:**

Effluent will not be applied within 100 feet of the property line

The Department has authorized a discharge less than 100 feet from the property line. The documentation for the lesser distance is included with this application, and is found in Attachment \_\_\_\_\_.

Please check which **one** of the following applies:

The source water is from a municipal supply.

The water source meets state or federal criteria for use as potable water.

The water source meets the standards of Rule 323.2222.

The water source is an alternative to the above. Department approval is required, and supporting documentation is attached.

05-5. **Application of Oil Field Brine, Rule 2215.** Please check all system characteristics that apply to this specific discharge:

The brine meets the requirements of R 324.705(3) of Part 615, Supervisor of Wells, 1994, PA 451, as amended.

The brine is being used for ice or dust control or soil stabilization on land.

Vehicular equipment used for the spreading of approved oil field brine is dedicated for that use or hauling fresh water.

Brine will not be applied at a site of environmental contamination for chlorides as defined under Part 201 of Act 451.

A brine application log will be maintained in the application vehicle for the previous two weeks applications of brine use that includes the information required in Section A.9 of the General Permit, and made available upon request by the Department or a peace officer.

A brine application log will be maintained by the discharger for a minimum of three years of brine use which shall include the information required in Section A.9 of the General Permit, and made available upon request by the Department or a peace officer.

**Dust Control/Soil Stabilization:**

The number of brine applications per year will be in accordance with Condition A.4.a. and Condition A.4.b. of the General Permit.

Brine will be applied to roads and parking areas with a spreader bar delivering the brine over an eight to ten foot area.

Brine will be applied at a maximum rate of 1500 gallons per lane mile of road or 1,250 gallons per acre of land.

Brine will be applied in a manner to prevent runoff.

**Ice Control:**

Brine will be applied only to paved roads or paved parking lots.

Brine will be applied at a maximum rate of 500 gallons per lane mile or 400 gallons per acre of land.

Brine will be applied only when the air temperature is above 20 degrees Fahrenheit.

Brine will be applied with equipment designed to direct the discharge to the center of the pavement or high sides of curves.

Brine application equipment will be equipped with measuring devices to ensure brine applications meet the requirements of the General Permit.

05-6. Vehicle Wash, open to the public, **Rule 2215**. Please check all system characteristics that apply to this specific discharge.

- The facility was in operation as of April 1, 2001.
- The discharge is less than 3,000 gallons per day.
- The soaps, detergents, and other cleaning chemicals do not contain volatile organic compounds, such as degreasers.
- There are no repair or maintenance activities taking place in the wash areas.
- Detergents, surfactants and other additives are only used in accordance with manufacturers specifications.
- Groundwater will be sampled twice per year and analyzed for the substances listed in Tables I, II and III of this General Permit.

**Isolation Distance:**

- Effluent will not be applied within 100 feet of the property line
- The Department has authorized a discharge less than 100 feet from the property line. The documentation for the lesser distance is included with this application, and is found in Attachment \_\_\_\_\_.

**Monitor Wells:**

- Monitor wells have been installed in accordance with Attachment II of this General Permit. A map showing the location of the wells in relation to the discharge, well logs, elevations (referenced to USGS datum) for top of casing, ground, and well screen interval, are found in Attachment \_\_\_\_\_.

Please check which **one** of the following applies:

- The source water is from a municipal supply.
- The water source meets state or federal criteria for use as potable water.
- The water source meets the standards of Rule 323.2222.
- The water source is an alternative to the above. Department approval is required, and supporting documentation is attached.

05-7. Hydrodemolition, **Rule 2215**. Please check all system characteristics that apply to this specific discharge.

- The discharge does not add additional contaminants to those present in the hydrodemolition wastewater.
- There is no discharge to surface water.
- The discharge is consistent with Michigan Department of Transportation contract documents for managing Hydrodemolition runoff water or other methods approved by the Department of Environmental Quality.
- The discharge occurs only on property where the discharger has a legal authorization for such a discharge on that property.
- The discharger maintains, on site, a log detailing the daily process wastewater discharge activities. The log shall be available for inspection and submitted to the Department of Environmental Quality upon request. Records will be maintained for a period of three years unless otherwise required by the Department of Environmental Quality.

**RULE 323.2216**

**PERMITS FOR SPECIFIC DISCHARGES**

**A DISCHARGE OF THE TYPE AND VOLUME SPECIFIED IN RULE 2216 THAT DOES NOT MEET THE SPECIFIC CRITERIA OF THIS RULE MUST APPLY FOR A PERMIT UNDER RULE 2218.**

1. RULE 2216 AUTHORIZATION REQUESTED			
	<u>WASTEWATER TYPE</u>	<u>DAILY MAXIMUM DISCHARGE, GALLONS</u>	
<input type="checkbox"/>	(2a) Sanitary Sewage, Constructed Wetland	less than 20,000	
<input type="checkbox"/>	(2b) Alternative Treatment System		
<input type="checkbox"/>	(3) Sanitary Sewage, Rule 2216 Design	less than 50,000	
<input type="checkbox"/>	(4) Laundromat Wastewater	less than 20,000	
2. DISCHARGE VOLUME			
ALL DISCHARGES:			
	Maximum daily discharge:	_____ gallons per day	
	Cumulative annual discharge:	_____ gallons per year	
SEASONAL DISCHARGES SHOULD INCLUDE THE FOLLOWING:			
	Discharge period	_____ through _____	
IRRIGATION SYSTEMS AND SEEPAGE BEDS UTILIZING SOILS FOR TREATMENT SHOULD INLCUDE THE FOLLOWING:			
	Effluent application rate:		
	Inches per hour _____	Inches per day _____	Inches per week _____ Inches per year _____
3. PUBLIC NOTICE			
Please attach a copy of the public notice, containing information required by Rule 2217(2)(b).			
4. CERTIFICATION OF DISCHARGE MINIMIZATION			
Please attach the steps identified and considered to avoid or minimize the use and discharge of pollutants according to Rule 2217(2)(c)			
5. DISCHARGE METHOD			
Please check the discharge method used:			
<u>LAND SURFACE DISPOSAL</u>	<u>DISPOSAL CODE</u>	<u>SUBSURFACE DISPOSAL</u>	<u>DISPOSAL CODE</u>
<input type="checkbox"/> Spray Irrigation	A1f1	<input type="checkbox"/> Tile Field	A1g1
<input type="checkbox"/> Ridge and Furrow	A1f2	<input type="checkbox"/> Injection well	A1g2
<input type="checkbox"/> Flood/Sheet Irrigation	A1f3	<input type="checkbox"/> Trench	A1g3
		<input type="checkbox"/> Drywell	A1g4
Seepage Beds:			
<input type="checkbox"/> Slow/Medium Rate	A1f4		
<input type="checkbox"/> Rapid Rate	A1f5		
<input type="checkbox"/> Other - Please describe:			

6a. **Sanitary Sewage, Constructed Wetland, Rule 2216(2), less than 20,000 gallons per day.** Please check all system characteristics that apply for this specific discharge, either already in place or are part of the proposed design of the treatment system:

- The discharge is less than 20,000 gallons per day.
- A minimum of 2 septic tanks are installed in series preceding the constructed wetland.
- The septic tanks have a combined volume of at least 2 times the daily design flow.
- The outfall to the constructed wetland is equipped with a septic tank effluent filter.
- There is a system to enhance nitrification prior to discharge to the constructed wetland.
- The discharge has been treated to remove oil and grease, if applicable.
- The system has at least 2 wetland cells.
- Each wetland cell has a length to width ratio of between 2:1 and 4:1.
- The constructed wetland treatment cells have a composite bottom liner in compliance with Rule 2237. See Guidesheet IV for lagoon construction guidance
- The bottom of the lagoon cell has been constructed to be level.
- The wetland cell filter media consists of 1/2-inch to 1-inch washed gravel with 100% passing the 1.0-inch sieve and a maximum of 3% passing the 1/2-inch sieve.
- The filter media is between 18 inches and 30 inches in depth.
- The constructed wetland is insulated with at least 6 inches of mulch or other comparable substitute.
- The filter surface area hydraulic loading rate is not more than 1.2 gallons per square foot per day.
- The design retention time is not less than 7 calendar days.
- Indigenous or sterile wetland vegetation has been planted on a 1-foot grid across each wetland cell.
- The system has the capability to recirculate effluent back into the influent end of the system.
- The wetland cell discharges to a tile field designed and constructed in accordance with the provisions of the publication entitled "Michigan Criteria for Subsurface Sewage Disposal," April 1994.
- The tile field has been approved by:
  - The county, district, or city health department that has jurisdiction.
  - The department.

6b. **Sanitary Sewage, Rule 2216(2)(b), less than 20,000 gallons per day,** alternative treatment system.

- Alternative treatment system. If you are applying for an authorization for a alternative treatment system equivalent to a constructed wetland, please attach documentation that the proposed system produces an effluent of similar quality to that of the constructed wetland.

**7. Sanitary sewage, specific design, Rule 2216(3), less than 50,000 gallons per day.**

Please check the treatment systems being proposed under this Rule:

- Lagoon w/land treatment
- Sequencing batch reactor
- Activated sludge w/denitrification
- Oxidation ditch
- Other If other, please describe:

Please check all system characteristics that apply for this specific discharge:

- The discharge is less than 50,000 gallons per day.
- The sanitary sewage is not mixed with any other type of wastewater.
- The treatment system has sufficient hydraulic capacity to treat organic or inorganic loading so that the discharge receives physical, chemical, biological treatment or a combination of treatments to meet the standards of Rule 2222.
- The facility is under the supervision of a certified operator.
- Land application is in accordance with Rule 2233, requirements common to all land application.
- Land application is in accordance with the specific requirements of the following Rule:
  - Rule 2234, Slow rate land treatment
  - Rule 2235, Overland flow treatment
  - Rule 2236, Rapid Infiltration

**7a. Lagoon with land treatment**

- The lagoon liner meets the requirements of Rule 2237. See Guidesheet IV for lagoon construction guidance.
- The lagoon system has at least 2 cells.
- The lagoon storage volume is at a minimum 1/2 of the annual influent flow.
- The lagoon has security fencing and warning signs.
- Wastewater disposal is by means of land application to a suitable crop in accordance with Rule 2233. See Guidesheet II for guidance regarding land application of wastewater.
- The discharge occurs only from a cell(s) which have not received untreated wastewater for at least 30 calendar days prior to the discharge.

**Lagoons without aeration**

- Cell 1 does not exceed a maximum depth of 6 feet.
- Cell 2 does not exceed a maximum depth of 8 feet.
- All additional cells do not exceed a maximum depth of 10 feet.

**Lagoons with aeration**

- A minimum of 2 mg/l of dissolved oxygen is maintained in the primary cell.
- The maximum depth of secondary cells does not exceed 10 feet.

**7b. Sequencing batch reactor**

- The discharge meets the requirements of Rule 2222 in the effluent.
- The facility has a contingency plan to deal with periods of upset, mechanical malfunctions, and routine maintenance while maintaining compliance with this part.
- The sequencing batch reactor system has at least 2 treatment tanks.

**7c. All other treatment systems which do not involve land treatment**

- The treatment system has a minimum storage volume of 1/2 the annual influent flow.
- The treatment system does not have a minimum storage volume of 1/2 the annual influent flow, the discharge meets the requirements of Rule 2222 in the effluent, and the facility has a contingency plan to deal with periods of upset, mechanical malfunctions, and routine maintenance while maintaining compliance with these rules.

**8. Laundromat Wastewater, Rule 2216(4), less than 20,000 gallons per day.** Please check all system characteristics that apply for this specific discharge:

- The discharge is less than 20,000 gallons per day.
- The laundromat does not have any dry cleaning operations.
- The lagoon liner meets the requirements of Rule 2237. See Guidesheet IV for lagoon construction guidance.
- The storage volume of the lagoon is at a minimum 1/2 of the annual influent flow.
- The lagoon system has at least 2 cells.
- The discharge shall occur only from cells that have not received untreated wastewater for at least 30 days.
- The lagoons have security fencing and warning signs.
- Discharge of treated wastewater is by means of low-rate application in accordance with Rule 2233. See Guidesheet II for guidance regarding land application of wastewater.
- The spray irrigation system is under pressure to enhance volatilization of organic constituents.

If aeration is not included as part of the lagoon treatment system, the following apply:

- Cell 1 does not exceed a maximum depth of 6 feet.
- Cell 2 does not exceed a maximum depth of 8 feet.
- Additional cells do not exceed a maximum depth of 10 feet.

If aeration is included as part of the lagoon treatment system, the following apply:

- The maximum depth of secondary cells does not exceed 10 feet.
- A minimum of 2 mg/l of dissolved oxygen will be maintained in the primary cell.

**RULE 323.2218**

**DISCHARGE PERMITS**

1. TYPE OF TREATED WASTEWATER FOR WHICH THE AUTHORIZATION IS REQUESTED. PLEASE CHECK ALL THAT APPLY

- Sanitary sewage
- Process wastewater
- Cooling water, greater than 5,000 gallons per day
- Non-contact cooling without additives, greater than 10,000 gallons per day, source water not approved by department.
- Non-contact cooling water with additives, greater than 10,000 gallons per day.
- Other, please describe: \_\_\_\_\_

2. DISCHARGE VOLUME

ALL DISCHARGES:

Maximum daily discharge: \_\_\_\_\_ gallons per day

Cumulative annual discharge: \_\_\_\_\_ gallons per year

SEASONAL DISCHARGES SHOULD INCLUDE THE FOLLOWING:

Discharge period \_\_\_\_\_ through \_\_\_\_\_

IRRIGATION SYSTEMS AND SEEPAGE BEDS UTILIZING SOILS FOR TREATMENT SHOULD INLCUDE THE FOLLOWING:

Effluent application rate:

Inches per hour \_\_\_\_\_ Inches per day \_\_\_\_\_ Inches per week \_\_\_\_\_ Inches per year \_\_\_\_\_

3. DISCHARGE METHOD

Please check the discharge method used:

<u>LAND SURFACE DISPOSAL</u>	<u>DISPOSAL CODE</u>	<u>SUBSURFACE DISPOSAL</u>	<u>DISPOSAL CODE</u>
<input type="checkbox"/> Spray Irrigation	A1f1	<input type="checkbox"/> Tile Field	A1g1
<input type="checkbox"/> Ridge and Furrow	A1f2	<input type="checkbox"/> Injection well	A1g2
<input type="checkbox"/> Flood/Sheet Irrigation	A1f3	<input type="checkbox"/> Trench	A1g3
		<input type="checkbox"/> Drywell	A1g4
Seepage Beds:			
<input type="checkbox"/> Slow/Medium Rate	A1f4		
<input type="checkbox"/> Rapid Rate	A1f5		
<input type="checkbox"/> Other - Please describe:			

4. TREATMENT CODES

Select and enter the appropriate treatment codes to describe treatment units, i.e., A1b, B2b (see APPENDIX A, Pages 41-44)

Treatment Unit A     \_\_\_\_\_

Treatment Unit B     \_\_\_\_\_

Treatment Unit C     \_\_\_\_\_

Treatment Unit D     \_\_\_\_\_

Please provide a description of the treatment system indicating how it will produce an effluent that will meet the standards of Rule 2222.

**4a. New Permits – Rule 2218(3)(a)**

The following information must be included in the application for a new permit. Refer directly to Rule 2218 for specific information requirements. Please indicate where the necessary information is included in this application. Please indicate NA for those that do not apply to your discharge:

- \_\_\_\_\_ An evaluation of the feasibility of alternatives to discharge to the groundwater in accordance with Rule 2219. See instructions, Page 9. This item is found \_\_\_\_\_.
- \_\_\_\_\_ The basis of design as required by 323.2218(2). See instructions, Page 10. This item is found \_\_\_\_\_.
- \_\_\_\_\_ The hydrogeological report as required by Rule 2221. See Guidesheet I. This item is found \_\_\_\_\_.
- \_\_\_\_\_ The wastewater characterization as required by Rule 2220. See Guidesheet III. This item is found \_\_\_\_\_.
- \_\_\_\_\_ If a standard applicable to the discharge is to be determined under Rule 2222(5), the information necessary to determine that standard, including whether a substance is a hazardous substance under Part 201. See Guidesheet V. This item is found \_\_\_\_\_.
- \_\_\_\_\_ The groundwater, or other media, sampling and analysis plan specified by Rule 2223. See instructions, Page 10 This item is found \_\_\_\_\_.
- \_\_\_\_\_ Information is attached that demonstrates the land treatment requirements of Rule 2233 will be met. See Guidesheet II. This item is found \_\_\_\_\_.
- \_\_\_\_\_ If a lagoon is included in the treatment process, information that demonstrates that the requirements of Rule 2237 will be met. See Guidesheet IV. This item is found \_\_\_\_\_.

4b. **Reissuance of current permit, no modifications, Rule 2218(3)(c).** The following information must be included in the application for the reissuance of your current permit. Please check that all items have been included:

- \_\_\_\_\_ The discharge consists of the same quantity, effluent characterization, and treatment process as previously permitted.
- \_\_\_\_\_ A narrative description of the history of facility compliance with effluent and groundwater permit limits and sampling frequency is included. This item is found \_\_\_\_\_.
- \_\_\_\_\_ An updated site map is included. This item is found \_\_\_\_\_.
- \_\_\_\_\_ The most recent static water levels and groundwater elevations from all wells on site. This item is found \_\_\_\_\_.
- \_\_\_\_\_ A current groundwater contour map is included, with a narrative evaluation of whether changes to the existing groundwater monitoring system are warranted and the rationale for any proposed change. This item is found \_\_\_\_\_.
- \_\_\_\_\_ The most recent groundwater quality results are included from all wells on site. This item is found \_\_\_\_\_.
- \_\_\_\_\_ The most recent effluent quality results are included. This item is found \_\_\_\_\_.

**Please check that all of the following that apply are included:**

- \_\_\_\_\_ If permit limits were exceeded, the steps taken to bring the facility into compliance. This item is found \_\_\_\_\_.
- \_\_\_\_\_ An evaluation of whether there are general trends in the effluent or groundwater sampling data indicating that the discharge is approaching permit limits. This item is found \_\_\_\_\_.
- \_\_\_\_\_ The discharger has provided the department, within 30 calendar days of completion of construction of the treatment facilities, a certification by an engineer licensed under Act No. 299 of the Public Acts of 1980, as amended, that a quality control and quality assurance program was utilized and that the facilities were built consistent with standard construction practices to comply with the permit and this part.

4c. **Reissuance of current permit, with significant modifications Rule 2218(3)(b).** The following information must be included in the application for the reissuance of your current permit. Please check that all items have been included:

- \_\_\_\_\_ An evaluation of the feasibility of alternatives to discharge to the groundwater in accordance with Rule 2219 is included. See Page 9. This item is found \_\_\_\_\_.
- \_\_\_\_\_ The basis of design required by 323.2218(2) is included. See Page 10. This item is found \_\_\_\_\_.
- \_\_\_\_\_ The hydrogeological report required by Rule 2221 is included. See Guidesheet I. This item is found \_\_\_\_\_.
- \_\_\_\_\_ The wastewater characterization required by Rule 2220 is included. See Guidesheet III. This item is found \_\_\_\_\_.
- \_\_\_\_\_ If a standard applicable to the discharge is to be determined under Rule 2222(5), the information necessary to determine that standard, including whether a substance is a hazardous substance under Part 201. See Guidesheet V. This item is found \_\_\_\_\_.
- \_\_\_\_\_ The monitoring plan as specified by Rule 2223 is included. See Page 10. This item is found \_\_\_\_\_.
- \_\_\_\_\_ Information that demonstrates the land treatment requirements of Rule 2233 will be met is included. See Guidesheet II. This item is found \_\_\_\_\_.
- \_\_\_\_\_ If a lagoon is included in the treatment process, information that demonstrates that the requirements of Rule 2237 will be met is included. See Guidesheet IV. This item is found \_\_\_\_\_.
- \_\_\_\_\_ A narrative description of the history of facility compliance with effluent and groundwater permit limits and sampling frequency is included. This item is found \_\_\_\_\_.
- \_\_\_\_\_ An updated site map is included. This item is found \_\_\_\_\_.
- \_\_\_\_\_ The most recent static water levels and groundwater elevations from all wells on site are included. This item is found \_\_\_\_\_.
- \_\_\_\_\_ A current groundwater contour map and a narrative evaluation of whether changes to the existing groundwater monitoring system are warranted and the rationale for any proposed change are included. This item is found \_\_\_\_\_.
- \_\_\_\_\_ The most recent groundwater quality results from all wells on site are included. This item is found \_\_\_\_\_.
- \_\_\_\_\_ The most recent effluent quality results are included. This item is found \_\_\_\_\_.

**Please check that all of the following that apply are included:**

- \_\_\_\_\_ If permit limits were exceeded, a description of the steps taken to bring the facility into compliance. This item is found \_\_\_\_\_.
- \_\_\_\_\_ An evaluation of whether there are general trends in the effluent or groundwater sampling data indicating that the discharge is approaching permit limits. This item is found \_\_\_\_\_.
- \_\_\_\_\_ The discharger has provided the department, within 30 calendar days of completion of construction of the treatment facilities, a certification by an engineer licensed under Act No. 299 of the Public Acts of 1980, as amended, that a quality control and quality assurance program was utilized and that the facilities were built consistent with standard construction practices to comply with the permit and this part.

**SITE SPECIFIC EXEMPTION**

**RULE 2210(Y)**

**A facility is authorized to discharge after it receives approval from the department that states the discharge is authorized under this part.**

<p>1. Please attach a narrative description of the discharge, indicating how the volume and/or constituents in the discharge present an insignificant potential to be injurious to the groundwater.</p>																																				
<p>2. DISCHARGE VOLUME                  ALL DISCHARGES:                  Maximum daily discharge: _____ gallons per day                   Cumulative annual discharge: _____ gallons per year                   SEASONAL DISCHARGES SHOULD INCLUDE THE FOLLOWING:                  Discharge period _____ through _____</p>																																				
<p>3. DISCHARGE METHOD</p> <p>Please check the discharge method used:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;"><u>LAND SURFACE DISPOSAL</u></th> <th style="text-align: left; border-bottom: 1px solid black;"><u>DISPOSAL CODE</u></th> <th style="text-align: left; border-bottom: 1px solid black;"><u>SUBSURFACE DISPOSAL</u></th> <th style="text-align: left; border-bottom: 1px solid black;"><u>DISPOSAL CODE</u></th> </tr> </thead> <tbody> <tr> <td>_____ Spray Irrigation</td> <td>A1f1</td> <td>_____ Tile Field</td> <td>A1g1</td> </tr> <tr> <td>_____ Ridge and Furrow</td> <td>A1f2</td> <td>_____ Injection well</td> <td>A1g2</td> </tr> <tr> <td>_____ Flood/Sheet Irrigation</td> <td>A1f3</td> <td>_____ Trench</td> <td>A1g3</td> </tr> <tr> <td></td> <td></td> <td>_____ Drywell</td> <td>A1g4</td> </tr> <tr> <td colspan="4">Seepage Beds:</td> </tr> <tr> <td>_____ Slow/Medium Rate</td> <td>A1f4</td> <td></td> <td></td> </tr> <tr> <td>_____ Rapid Rate</td> <td>A1f5</td> <td></td> <td></td> </tr> <tr> <td>_____ Other - Please describe:</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	<u>LAND SURFACE DISPOSAL</u>	<u>DISPOSAL CODE</u>	<u>SUBSURFACE DISPOSAL</u>	<u>DISPOSAL CODE</u>	_____ Spray Irrigation	A1f1	_____ Tile Field	A1g1	_____ Ridge and Furrow	A1f2	_____ Injection well	A1g2	_____ Flood/Sheet Irrigation	A1f3	_____ Trench	A1g3			_____ Drywell	A1g4	Seepage Beds:				_____ Slow/Medium Rate	A1f4			_____ Rapid Rate	A1f5			_____ Other - Please describe:			
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To apply for an exemption according to Rule 2210(y), you should fill out pages 14-17 of this application, which contain general information about the facility. You should also provide the above information. The department will notify you whether your application qualifies for an exemption under Rule 2210(y), or whether you must apply for a different authorization. You are not authorized to discharge until you receive approval from the department.

# APPENDIX A

## TREATMENT METHOD CLASSIFICATION

The Treatment Method Classification is a three digit alphanumeric code to describe the treatment system and a guide for operator certification. The first entry is a letter designation to indicate **physical (A), chemical (B), or biological (C)** treatment. The second entry describes the appropriate **sub-classification**, and the last entry is a letter **correlating to the specific type of treatment**.

### 1. PHYSICAL

**A-1a Special Classification** - Minor discharges with no treatment and limited monitoring requirements. This classification applies only to discharges where no other classification applies. (Note: Proper application for certification is necessary, however no additional examination is required.)

Examples:

Hydrostatic testing of pipes and tanks  
Discharge of storm water from secondary containment

**A-1b Plain Clarification** - Solids removal by gravity separation in a mechanical clarifier with no provision for the addition of chemical coagulant. (Note: Does not include basins intended to provide biological or chemical treatment.)

Examples:

Clarifiers with no provision for addition of coagulant  
Settling Tanks with tube or plate settlers with no provision for addition of coagulant

**A-1d Impoundment** – A tank, basin, or reservoir intended to hold wastewater to allow for a controlled discharge; may or may not provide settling of solids. (Note: Does not include basins intended to provide biological or chemical treatment.)

Examples:

Discharge flow equalization  
Mine tailing ponds  
Gravel pits used to remove solids from wastewater

**A-1f Land Surface Disposal** – Disposal of wastewater by means of application to the surface of the land with percolation into the ground i.e.) No Underdrain

Examples:

Spray Irrigation  
Ridge and Furrow  
Rapid Infiltration Basin  
Seepage Pond

**A-1g Sub-surface Disposal** – Tile field system used for discharge of wastewater with percolation into the ground. Does not include under-drain systems used to collect wastewater for further treatment and/or discharge.

Examples:

Septic tank – tile field system

**A-1h Non-contact Cooling Water** – Flow measurement, visual observation, sampling, and minor testing of non-contact cooling water discharges regulated by permit. Discharge of cooling water that has mixed with untreated wastewater is excluded. Proper application for certification is required; the written examination consists of a take-home questionnaire.

Examples:

Discharge from Heat Exchangers

Compressor Condensate

Cooling Tower Discharge

**A-2b Filtration of Wastewater** – Filtration of wastewater for the purpose of removing particulate materials. Specifically for Rapid Sand Filters, but may also include such processes as pressure filters, micro-screens, and bag filters.

**A-2c Air Flotation** – A wastewater treatment process for separation in which fine air bubbles are utilized to raise suspended materials to the surface where they are collected.

Note: Does not include sludge thickening processes

**A-2d Air Stripping** (Note Name Change from Gas Stripping) – Air stripping of volatile substances from wastewater or groundwater.

Note: Does not include off-gas treatment for odor control

**A-2e Centrifuging** – A wastewater treatment process in which a centrifuge is used to apply centripetal force to accelerate the separation of substances.

Examples:

Removal of solids from wastewater by centrifuging

Separation of oil from wastewater by centrifuging

Note: Does not include thickening of sludge by centrifuging

**A-2g Deep Well Injection** – Pressure injection of wastewater into a sub-surface formation.

## **B. CHEMICAL**

**B-1b Neutralization** – A chemical treatment process whereby a wastewater is neutralized (pH adjustment) to achieve a pH level required for discharge.

Examples:

Addition of acid or base to meet limit in discharge permit

Does not include pH adjustment intended for such purposes as precipitation, nitrification, or to enhance biological treatment.

**B-2a Chemical Clarification** - Coagulation and/or Precipitation for solids removal from wastewater.

Chemical coagulation – The removal of suspended solids from wastewater through the addition of polymer, ferric chloride, alum, or other coagulants added to wastewater just prior to clarification.

Chemical precipitation – The removal of dissolved solids from wastewater by precipitation through the addition of a base, ferric chloride, alum or other chemical agent just prior to clarification.

Examples:

Precipitation of metals from wastewater

Precipitation of phosphorus from wastewater

**B-2b Ion Exchange** – A wastewater treatment process in which undesirable ionic materials in wastewater are exchanged for other ions on a resin material.

Note: Does not include softening of process water or boiler make-up water

**B-2c Oil – Water Separation** – Separation of oil from water with or without chemical addition.

Examples:

Grease Traps

Gravity Oil Water Separators

Chemical Emulsion Breaking

Oil Skimming

**B-2d Ultraviolet Oxidation** – A wastewater treatment process in which ultraviolet radiation is used to oxidize organic contaminants (Note: Does not include UV disinfection)

**B-3b Carbon Adsorption** – Removal of organic compounds from wastewater by adsorption on activated carbon.

Examples:

Includes systems in which wastewater passes through a carbon bed (liquid phase adsorption)

Does not include systems in which organics are removed from the wastewater by air stripping and then from the air by carbon adsorption (vapor phase adsorption).

Does not include carbon canisters used for odor control systems.

**B-3c Reduction of Hexavalent Chromium** – A wastewater treatment process in which hexavalent chromium is chemically reduced to trivalent chromium.

**B-3d Oxidation of Cyanide** – The removal of cyanide from wastewater through the process of alkaline chlorination.

## C. BIOLOGICAL

**C-1b Aerated Lagoons** – A man-made pond or lagoon with mechanical or diffused aeration intended to provide aerobic biological treatment.

Note: Includes wastewater treatment systems with a combination of aerated and non-aerated cells

**C-1c Stabilization Ponds** – A man-made pond or lagoon intended to provide natural biological treatment without the addition of supplemental aeration.

**C-2a Disinfection** – The chemical or ultraviolet radiation disinfection process to destroy pathogenic organisms in wastewater just prior to discharge.

**C-2b Trickling Filters** – An attached growth wastewater treatment process in which wastewater is distributed over a media (usually rock or plastic) which supports the biological system and is designed to convert colloidal and dissolved organic compounds into settleable sludge.

**C-2c Biological Sand Filters** - Sand filtration systems intended to provide biological treatment of wastewater as well as physical filtration.

Examples:

Intermittent Sand Filters

Recirculating Sand Filters

**C-2d Rotating Biological Contactors** – An attached growth wastewater treatment process utilizing rotating plastic media designed to convert colloidal and dissolved organic compounds into settleable sludge.

**C-2e Package Plant** – (Note: Exam no longer offered. All new package plants will be classified C-3a or C-3b)

**C-2f Constructed Wetlands** - A man-made complex that simulates natural wetlands, intended to treat wastewater through microbial utilization and plant uptake of nutrients.

**C-3a Activated Sludge** – A suspended growth, biological treatment system designed to convert colloidal and dissolved organic compounds in wastewater into settleable sludge.

Examples:

Conventional Activated Sludge

Oxidation Ditch

Package Plants

**C-3b Sequencing Batch Reactor** – A modification of the activated sludge process in which treatment occurs in batch mode and the reactor also serves as the secondary clarifier. The treatment sequence is largely computer controlled.

## APPENDIX B

### OPERATIONAL REQUIREMENTS

In addition to information necessary to make a permit decision, the Part 22 Rules contain a series of operational requirements that must be followed after the discharge begins. The following is a brief overview of those requirements. The discharger should refer to the specific rule authorization for detailed requirements.

#### **Rule 2211**

##### **(b) Laundromat, less than 500 gallons per day**

- (i) Septic tanks must be pumped when the sludge level reaches 25% of the tank volume.
- (ii) Septic tanks must be equipped with an effluent filter.

##### **(e) Portable power washer**

- (i) The discharge must not cause runoff of wastewater or deposition of waste materials onto adjacent properties.

#### **Rule 2213**

##### **(3) Egg washing, less than 10,000 gallons per day**

- (a) The discharger must minimize the discharge of proteinaceous matter, such as egg yolks, to control odor and prevent nuisance conditions.

##### **(4) Department approved groundwater remediation**

- (a) The discharger shall maintain all treatment works in good working order at all times.

#### **Rule 2216**

##### **(2) Constructed wetland, less than 20,000 gallons per day**

- (a) Wetland vegetation shall be cultivated to maximize the rooted depth throughout the gravel filter media.

##### **(3) Sanitary sewage, less than 50,000 gallons per day**

- (a) Sludge resulting from the wastewater treatment process must be disposed of in accordance with part 115 or land applied in accordance with applicable state and federal law.
- (b) The discharger shall maintain all treatment or control facilities or systems in good working order and operate the facilities or systems as efficiently as possible.
- (c) A discharger shall have an operation and maintenance manual for the wastewater treatment facility. The manual shall include all of the following information:
  - (i) Function, start-up, shutdown, and periodic maintenance procedures for each unit process and item of mechanical and electrical equipment.
  - (ii) The appropriate response or facility adjustment to minimize the impact of an emergency situation.
  - (iii) A monitoring program to monitor process efficiency.
  - (iv) Details of how inspections will be conducted and a schedule for the inspection of collection system and pump stations, where applicable.
  - (v) Periodic maintenance procedures for the collection system and pump stations, where applicable.
  - (vi) Procedures for the routine maintenance and inspection of lagoons and equipment used for irrigation, where applicable.
- (d) Effluent may be discharged from May 1 through October 15, unless the department approves alternative dates.

(e) The discharger shall inspect the lagoon facilities weekly and maintain an inspection log unless otherwise authorized by the department.

(f) When drawing down a cell for transfer or discharge, the discharger shall meet all of the following requirements unless otherwise authorized by the department:

(i) Water discharged or transferred shall be removed from the surface 2 feet of the cell at a rate of less than 1 foot per day.

(ii) A discharger shall maintain a minimum of 2 feet of freeboard in all cells at all times.

(iii) A discharger shall maintain a minimum of 2 feet of water in all cells at all times.

(g) The discharger shall implement a facility maintenance program that incorporates all of the following management practices, unless otherwise authorized by the department:

(i) Vegetation shall be maintained at a height not more than 6 inches above the ground on lagoon dikes.

(ii) Not more than 10% of the water surface shall be covered by floating vegetation and not more than 10% of the water perimeter may have emergent rooted aquatic plants.

(iii) Dikes shall be inspected for evidence of erosion and animal burrowing. Damage due to erosion or animal burrowing shall be corrected immediately and steps taken to prevent occurrences in the future.

(iv) The occurrence of any of the following shall be minimized and immediate steps shall be taken to eliminate each occurrence:

(A) Scum.

(B) Floating sludge.

(C) Offensive odors.

(D) Insect infestations.

(E) Septic conditions.

**(4) Laundromats, less than 20,000 gallons per day**

(a) Effluent may be discharged from May 1 through October 15, unless alternative dates are approved by the department.

(b) The discharger shall inspect the lagoon facilities weekly and maintain an inspection log unless otherwise authorized by the department.

(c) When drawing down a cell for transfer or discharge, the discharger shall meet all of the following requirements unless otherwise authorized by the department:

(i) Water discharged or transferred shall be removed from the surface 2 feet of the cell at a rate of less than 1 foot per day.

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