

<Name of Facility>

# Process Wastewater Management Plan

WPCF General Permit 1400 <A or B>

Permit No. <permit number on permit>

File No. <file number on permit>

Physical Address:

<Address>

<City> <State> <zip>

Mailing Address: <if different>

<Address>

<City> <State> <zip>

Facility Contact: <name>

Phone: <(XXX) XXX-XXXX>

Email: <name@facility.com>

System Operator: <name>

Phone: <(XXX) XXX-XXXX>

Date: <Month> <Year>

## Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information the information is, to the best of my knowledge and belief, true, accurate, representative, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Approved by:

Title: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Revisions:

Date	Reason for review or revision	Conducted by	Findings or summary of modifications

(The purpose of this table is to track the revisions to this document and ensure the utilization and implementation of the most up to date version.)

## 1.0 Overview

### 1.1 Site Description

<Introduce the facility. Where it is located, the county, and a brief description of the activities that occur at this facility. Provide a figure showing the general facility location and surround area. Provide a second figure to scale, showing the facility with boundary lines, and main facility activities labeled. These figures can be created from images obtained from the internet, aerial photographs, tax maps, or surveyed drawings.>

This facility is located on the following tax lots: <Identify the tax lots, zoning, and use.>

(for example: Main plant operations are located on tax lot 2646 (Township 2E, Range 25S, Section 23) and consist of 14.3 acres. The site is zoned for general industrial use and developed with multiple buildings, loading docks, and paved parking lots.)

<Briefly describe the surrounding property's use.>

(for example: The surrounding properties consist of residential to the east, commercial and retail to the south and agricultural to the north and west.)

## 2.0 Production Description

<Describe each of the processes that occurs at this facility that produces wastewater. If the work is seasonal, identify and explain each activity that occurs for each season and list the calendar months of the seasons.>

### 2.1 Source Water

<Describe the water source (i.e. well water, city water, etc.), volume of water, list any chemicals or additives that are mixed with the water. Include concentrations, volumes and any changes to these values for each season. Describe any blending or mixing of any other water source that might occur including ratios, volumes, treatment etc.>

### 2.2 Process Wastewater

<Describe the process wastewater created by each process, volume of wastewater each process produces (in gallons per day) and total volume produced by the facility, wastewater management activities, storage, treatment, etc. Include any mixing of stormwater or other wastewater sources.>

<Provide a table with wastewater characteristics (i.e. temperature, pH, BOD, electrical conductivity, etc.) and chemical concentrations (i.e. nitrogen, sodium, dissolved solids, etc.)>

### 2.3 Process Wastewater Solids

<Describe the process wastewater solids, volume/quantity, wastewater solids management activities, storage, treatment, disposal/reuse, etc.>

<Provide a table with wastewater solids characteristics if land applied (i.e. moisture content, BOD) and chemical concentrations (i.e. nitrogen, sodium, etc.). If solids are hauled off site explain where they go and their ultimate use/disposal.>

## 2.4 Process Termination

<Describe how the system would be decommissioned should the proposed activities terminate at this facility. This would include closure bonds, underground tank and pipe line decommissioning.>

## 3.0 Process Wastewater System

### 3.1 Collection

<Describe the process wastewater collection system. Include details (i.e. size, capacity, flow rate, etc.) of each component used to capture, and transport the process wastewater.>

### 3.2 Storage and Treatment

<Describe any treatment, storage, and specific activities associated with the management of the process wastewater. Include the holding capacity of the storage system in gallons as well as how many days/weeks/months of standard flow rates the system can hold. Provide the capacity of the treatment system. Identify system safeguards, such as shutoff valves, backflow valves. Does the system discharge if there is a power failure? Is the system automated or manually operated? Discuss odor management activities to prevent the creation of noxious odors.>

### 3.3 Use and Disposal

#### 3.3.1 Irrigation

<Describe the irrigation system, where it is located, the size of the area that will be irrigated (in acres), the predominant soil type (i.e. silt loam, sandy, etc.), what is grown in this area, how the irrigation system operates (gravity flow, pumps, hand lines, big gun, in ground system, etc.), indicate the months when land application will occur and how the irrigation schedule was determined.>

#### *System Start-up and Shut Down*

Describe the activities performed at the start of irrigation season and the process for shutting the system down at the end of the season.

#### *Maintenance and Monitoring*

Discus how the system is managed and maintained. Include what conditions are monitored and where to ensure the irrigation activities are in compliance with the permit. Identify when the system will be shut down. (i.e. The system will be shut down when wind speeds exceed 10 miles per hour to prevent wind drift off site.) How will the soil moisture be monitored? How frequently will the system be moved to avoid ponding, flooding, or surface run off? etc.)

Please note, the use of process wastewater for irrigation that is managed appropriately (i.e. no ponding, run-off, flooding or over application of water or nutrients) for the improved growth of desirable vegetation (i.e. a crop, pasture grass, ornamental vegetation) is considered beneficial reuse. In contrast, an irrigation system that applies water to a field of weeds with little to no oversight or applies more water or nutrients than needed for plant growth, causing flooding, run-off, or leaching of nutrients does not meet the definition of beneficial reuse, is classified as surface disposal and is not permissible with this permit.>

#### 3.3.2 Subsurface disposal

<Describe any disposal system of the process wastewater.>

<Include figure(s) or drawing(s) of the collection, storage, treatment, irrigation, and disposal systems. Include location of liquid and solid storage and land application areas, any surface water, wells, ditches, drainages, neighboring structures, and natural barriers (i.e. border trees, hedges, hills). If the system is complex, more than one figure may be needed to accurately present the complete system.>

## 4.0 Process Wastewater Solids

### 4.1 Collection

<Describe process wastewater solids collection system. Include details of each component used to capture, and transport the process wastewater solids.>

### 4.2 Storage and Treatment

<Describe any treatment, storage, and specific activities associated with the management of the process wastewater solids. Include the holding capacity of the storage system as well as how many days/weeks/months of standard flow rates the system can hold the solids. Identify odor management activities to prevent the creation of noxious odors.>

### 4.3 Use and Disposal

<Facilities that land apply the process wastewater solids must describe the activities associated with land application of the wastewater solids. This would include where they will be land applied, how they are applied, the volume of solids applied per acer of land, how the application rate was determined (i.e. BOD loading rate, nutrient/nitrogen loading rate), how the material will be applied, how the system is managed and maintained. Indicate the months when land application will occur. Include the solids land application area on one of the site maps.>

<Facilities that haul process wastewater solids off-site for reuse or disposal must describe who hauls the material, were the material is hauled and what the material is used for or were it is disposed.>

## 5.0 Exceedance Rational (for 1400B permit holders only)

<As specified in Schedule A table A1 of your permit, if your facility discharges process wastewater that exceeds the benchmarks listed in Schedule A Table A1, you will need to provide detailed explanation in this section of how your wastewater can be beneficially reused or discharge to a subsurface discharge system without degrading the environment or causing public health concerns. This would include a discussion of how the facility will ensure the proposed activities will be protective of the environment and public health, which may include additional sampling, detailed site information, or both.>