

**State of Georgia**  
**Department of Natural Resources**  
**Environmental Protection Division**  
**Watershed Protection Branch**

**National Pollutant Discharge Elimination System (NPDES)**  
**Industrial Antidegradation Analysis Instructions**

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**SECTION I – PROJECT INFORMATION**

**Facility Name:** Provide the name of the facility  
**NPDES Permit Number** Provide the permit number if this is an expansion of an existing facility  
**Location:** Provide the physical location of the proposed project with Lat and Long  
**County:** Indicate the county in which the facility is located  
**Receiving Water Name:** Indicate the receiving stream or water body into which the facility discharges or plans to discharge (tributary and basin).  
**Stream Classification:** Provide the receiving stream water use classification as provided for in Chapter 391-3-6-.03 of the Rules and Regulations for Water Quality Control.

**SECTION II – Socioeconomic Demonstration**

For each factor provide a discussion of expected positive and negative impacts. Include appropriate support documentation.

**SECTION III – Alternative Analysis**

For each alternative compare the feasibility and costs of the alternative to the feasibility and costs of the proposed project and its treatment system. Include appropriate supporting documentation.

**SECTION IV - CERTIFICATION**

**Name and Title:** Indicate the name and title of the person signing the form.  
**Telephone No.:** Provide the telephone number of the person signing the form.  
**E-Mail Address:** Provide the E-mail address of the person signing the form.  
**Date:** Indicate the date that the form was signed.

This form is an attached part of the NPDES permit application and must be signed as follows:

**Corporation:** by a principal executive officer of at least the level of vice president  
**Partnership or sole proprietorship:** by a general partner or the proprietor respectively



# National Pollutant Discharge Elimination System (NPDES)

## Industrial Socioeconomic Demonstration And Alternatives Analysis

The goal of the state of Georgia is to enhance, protect, and maintain water quality in Georgia. The Antidegradation Implementation Procedures established by the Environmental Protection Division (EPD) serve to promote this goal and the implementation of the State antidegradation regulation found at 391-3-6-.03(2)(a), (b), and (c) of the Georgia Rules and Regulations for Water Quality Control. NPDES permit applications for new or expanded point sources require the applicant to conduct a socioeconomic demonstration and alternatives analysis to justify the necessity of lowering local water quality to accommodate important economic or social development in the area in which the water is located. This demonstration shall include this completed form and copies of any engineering reports, economic feasibility studies, or other supporting documentation.

### I. Project Information

<b>Facility Name:</b>		<b>NPDES Permit Number:</b>	
<b>Location:</b>		<b>County:</b>	
<b>Receiving Waters Impacted:</b>		<b>Stream Classification:</b>	

### II. Socioeconomic Demonstration

#### 1. Define the boundaries of the affected community:

(Specify the geographic region the proposed project is expected to affect. Include the name of all cities, towns, and counties. This geographic region must include the proposed receiving water.)

#### 2. The effect on employment in the affected community:

(Compare current unemployment rates in the affected community to current state and national unemployment rates. Discuss how the proposed project will positively or negatively impact those rates, including quantifying the number of jobs created and/or continued and the quality of those jobs.)

## II. Socioeconomic Demonstration- continued

### 3. The effect on median household income levels in the affected community:

(Compare current median household income levels with projected median household income levels. Discuss how the proposed project will positively or negatively impact the median household income in the affected community including the number of households expected to be impacted within the affected community.)

### 4. The effect on tax revenues of the affected community:

(Compare current tax revenues of the affected community with the projected increase in tax revenues generated by the proposed project. Discuss the positive and negative social and economic impacts on the affected community by the projected increase.)

## II. Socioeconomic Demonstration- continued

**5. The effect on existing environmental or public health in the affected community:**

(Discuss how the proposed project will have a positive or negative impact on existing environmental or public health.)

**6. Discuss any other economic or social benefit to the affected community:**

(Discuss any positive or negative impact on the economy of the affected community including direct and or indirect benefits that could occur as a result of the project. Discuss any positive or negative impact on the social benefits to the community including direct and indirect benefits that could occur as a result of the project.)

### III. Alternative Analysis

#### 1. Pollution prevention measures:

(Discuss the pollution prevention measures evaluated including the feasibility of those measures and the cost. Measures to be addressed include but are not limited to changes in processes, source reductions or substitution with less toxic substances. Indicate which measures are to be implemented.)

#### 2. The use of best management practices to minimize impacts:

(Discuss the consideration and use of best management practices that will assist in minimizing impacts to water quality from the proposed permitted activity.)

#### 3. Recycle or reuse of wastewater, waste by-products, or production materials and fluids:

(Discuss the potential recycle or reuse opportunities evaluated including the feasibility of implementation and the costs. Indicate which of these opportunities are to be implemented)

### III. Alternative Analysis - continued

#### 4. Application of water conservation methods:

(Discuss the potential water conservation opportunities evaluated including the feasibility of implementation and the costs. Indicate which of these opportunities are to be implemented)

#### 5 Alternative or enhanced treatment technology:

(Compare feasibility and costs of proposed treatment with the feasibility and costs of alternative or enhanced treatment technologies that may result in more complete pollutant removal. Describe each candidate technology including the efficiency and reliability in pollutant removal and the capital and operational costs to implement those candidate technologies. Justify the selection of the proposed treatment technology.)

### III. Alternative Analysis - continued

**6. Improved operation and maintenance of existing treatment systems:**

(Discuss improvements in the operation and maintenance of any available existing treatment system that could accept the wastewater. Compare the feasibility and costs of improving an existing system with the feasibility and cost of the proposed treatment system.)

**7. Seasonal or controlled discharge options:**

(Discuss the potential of retaining generated wastewaters for controlled releases under optimal conditions, i.e. during periods when the receiving water has greater assimilative capacity. Compare the feasibility and cost of such a management technique with the feasibility and cost of the proposed treatment system.)

**III. Alternative Analysis - continued**

**8 Land Application System**

(Discuss the potential of utilizing a spray field or other land disposal system. Compare the feasibility and costs of such treatment techniques with the feasibility and costs of the proposed treatment system.)

**9 Discharge to other treatment systems**

(Discuss the availability of either public or private treatments systems with sufficient capacity and sophistication to treat the wastewaters generated by this project. Compare the feasibility and costs of such options with the feasibility and costs of the proposed treatment system.)

**IV 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 submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

<b>Name and Title:</b>		<b>Telephone Number</b>	(    )    -
		<b>E-mail Address</b>	
<b>Signature:</b>		<b>Date:</b>	