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|  |  |  |
|  |  | Control Authority and/or Municipality |

**PERMIT**

Industrial User Pretreatment Permit (IUP)

To Discharge Wastewater Under the

Industrial Pretreatment Program

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|  |  |  |
| IUP Number |  | 40 CFR Category(if Applicable) |

In compliance with the provisions of North Carolina General Statute 143-215.1, any applicable federal categorical pretreatment regulations, all other lawful standards and regulations promulgated and adopted by the North Carolina Environmental Management Commission, and the Control Authority and/or Municipality Sewer Use Ordinance. The following Industry, hereafter referred to by name or as the permittee:

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| --- |
| Industry name, permittee: |
| Facility Located at Street Address |
| City |
| State, Zip |

is hereby authorized to discharge wastewater from the facility located at the above listed address into the sanitary sewer collection system and the wastewater treatment facility of the Control Authority and/or Municipality listed below:

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| --- |
| IUP Control Authority and/or Municipality WWTP name: |
| NPDES Number: |
| WWTP Address: |
| City, State, Zip |

in accordance with effluent limitations, monitoring requirements, and all other conditions set forth in Parts I, II, and III of this Industrial User Pretreatment Permit (IUP).

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| --- |
| Effective date, this permit and the authorization to discharge shall become effective at midnight on this date:. |
| Expiration date, this permit and the authorization to discharge shall expire at midnight on this date: |

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|  |  |  |
| Date signed |  | Title |

IUP, PART I, OUTLINE:

A.) IUP Basic Information

B.) IUP Modification History

C.) Authorization Statement

D.) Description of Discharges

E.) Schematic and Monitoring Locations

F.) Effluent Limits & Monitoring Requirements

G.) Definitions and Limit Page(s) notes

A. IUP Basic Information:

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| --- | --- |
| Receiving Control Authority & WWTP name : | POTW NPDES # : |
| IUP Name : | IUP Number : |
| IUP Effective date : | Pipe Numbers, list all regulated pipes: |
| IUP Expiration date : | IUP 40 CFR # (if applicable), or N/A: |

B. IUP History. A Complete Permit History is required):

|  |  |  |
| --- | --- | --- |
| Effective Date | Renewal or Modification | Description of changes over previous IUP. |
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C.) Authorization Statement:

1.) The Permittee is hereby authorized to discharge wastewater in accordance with the effluent limitations, monitoring requirements, and all other conditions set forth in this Industrial User Pretreatment Permit (IUP) into the sewer collection system and wastewater treatment facility of the Control Authority and/or Municipality.

2.) The Permittee is hereby authorized to continue operation of and discharge wastewater from the following treatment or pretreatment facilities. These facilities must correspond to the treatment units listed on both the application and inspection forms.

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| **IU Treatment Units** |
| List all Treatment Units: | Descriptions: |
|  |  |

3.) The Permittee is hereby authorized to, if required by the Control Authority and/or Municipality and after receiving Authorization to Construct (A to C) from the Control Authority and/or Municipality, construct and operate additional pretreatment units as needed to meet final effluent limitations.

D.) Description of IUP Discharge(s):

1. Describe the discharge(s) from all regulated pipes.

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| --- |
| Pipe # 001 , Description of Discharge: |

E.) Schematic and Monitoring Locations:

The facility schematic and description of monitoring location(s) given below must show enough detail such that someone unfamiliar with the facility could readily find and identify the monitoring location(s) and connection to the sewer. Include and identify all regulated pipes.

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| --- | --- | --- | --- | --- |
| **IUP, Part 1 Section F:****Effluent Limits and Monitoring Requirements****The Permittee may discharge from this specific Pipe number according to these specific dates, effluent limits, and monitoring requirements** | Receiving POTW name => |   | IU name => |   |
|  | Receiving POTW NPDES # => |   | IUP # => |  |
|  | Effective date for these Limits => |   | Pipe # => |  |
|  | Expiration date for these Limits => |   | 40 CFR # => |  |
|  |  |  |  | if not applicable put N/A |
|  | THE LIMITS ON THIS PAGE ARE, (Check one below): |  |  |
|  | LIMITS for ENTIRE permit period => |   |  |  |
|  | INTERIM Limits for period # 1 => |   |  |  |
|  | INTERIM Limits for period # 2 => |   |  |  |
|  | FINAL Limits Page => |   |  |  |

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| --- | --- | --- | --- | --- | --- | --- |
|  |  | Concentration Limits | Mass Limits | Monitoring Frequency |  |  |
|  |  | Daily Max | Monthly Average | Units | Daily Max | Monthly Average | Units | By Industry | By POTW | Sample Collection Method(C or G) | Required Laboratory Detection Level |
| 1 | Flow |  |  | MGD |  |  |  |  |  |  |  |
| 2 | BOD |  |  | mg/l |  |  |  |  |  |  |  |
| 3 | TSS |  |  |  |  |  |  |  |  |  |  |
| 4 | Temperature |  |  |  |  |  |  |  |  |  |  |
| 5 | PH |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| OTHER PARAMETERS; Please List Alphabetically |  |  |  |  |  |  |  |
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G.) Definitions and Limit Page(s) notes:

In addition to the definitions in the Town of XXXX Sewer Use Ordinance the following definitions and requirements apply:

1. Composite Sample:

Unless defined differently below, a composite sample for the monitoring requirements of this IUP, is defined as the automatic or manual collection of one grab sample of constant volume, not less than 100 ml, collected every hour during the entire discharge period on the sampling day. Sampling day shall be a typical production, and discharge day.

2. Composite Sample, alternative definition:

A composite sample for the monitoring requirements of this IUP is the same as described above unless specifically defined below as the automatic or manual collection of constant volume and constant time grab samples collected and composited according to the following criteria:

|  |  |  |
| --- | --- | --- |
| specific volume of each grab sample = |  | Milliliters |
| specific time interval between samples = |  | Hours |
| total duration of sample collection period = |  | Hours |
| Total number of grab samples to be composited =  |  | Samples |

3. Daily Monitoring Frequency

Daily Monitoring Frequency as specified in this IUP shall mean each day of discharge.

4. Grab Sample

Grab sample for the monitoring requirements of this IUP, is defined as a single "dip and take" sample collected at a representative point in the discharge stream.

5. Instantaneous measurement

An Instantaneous measurement for the monitoring requirements of this IUP is defined as a single reading, observation, or measurement.

Outline of PART II,

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| --- | --- | --- | --- |
| 1. | Representative Sampling | 16. | Federal and/or State Laws |
| 2. | Reporting | 17. | Penalties |
| 3. | Test Procedures | 18. | Need to Halt or Reduce |
| 4. | Additional Monitoring by Permittee | 19. | Transferability |
| 5. | Duty to comply | 20. | Property Rights |
| 6. | Duty to Mitigate | 21. | Severability |
| 7. | Facilities Operation, Bypass | 22. | Modification, Revocation, Termination |
| 8. | Removed substances | 23. | Reapplication |
| 9. | Upset Conditions | 24. | Dilution Prohibition |
| 10. | Right of Entry | 25. | Reports of Changed Conditions |
| 11. | Availability of Records | 26. | Construction of pretreatment facilities |
| 12. | Duty to provide information | 27. | Reopener |
| 13. | Signatory Requirements | 28. | Categorical Reopener |
| 14. | Toxic Pollutants | 29. | General Prohibitive Standards |
| 15. | Civil and Criminal Liability | 30. | Reports of Potential Problems |
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1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring points specified in this permit and, unless otherwise specified, before the effluent joins or is diluted by any other wastestream, body of water, or substance. Monitoring points shall not be changed without notification to, and approval by, the permit issuing authority.

2. Reporting

a.) Monitoring results obtained by the permittee shall be reported on forms specified by the Control Authority and/or Municipality, postmarked no later than the twentieth day of the month following the month in which the samples were taken. If no discharge occurs during a reporting period (herein defined as each calendar month) in which a sampling event was to have occurred, a form with the phrase "no discharge" shall be submitted. Copies of these and all other reports required herein shall be submitted to the Control Authority and/or Municipality and shall be sent to the following address:

 Name

 Title

 Control Authority and/or Municipality Name

 Address

 City, State, Zip

1. If the sampling performed by the permittee indicates a violation, the permittee shall notify the Control Authority and/or Municipality within 24 hours of becoming aware of the violation. The permittee shall also repeat the sampling and analysis and submit the results of the repeat analysis to the Control Authority and/or Municipality within 30 days after becoming aware of the violation.

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| --- |
| NOTE: REQUIRED STREAMLINING CHANGE in Part II, 2, for IUPs with no SIU self monitoring. PERMIT WRITER MUST CHOOSE one of the following two options, or insert your own wording that complies with 40 CFR 403.12(g)(2). See Notes and Wording in Section 5.8 of SUO, and also Streamlining Guidance for more discussion. |

1. If no self-monitoring is required by this IUP, and the sampling performed by the Control Authority and/or Municipality indicates a violation, the Control Authority and/or Municipality shall repeat the sampling and analysis and receive the results of the repeat analysis within 30 days after becoming aware of the violation.

OR

1. If no self-monitoring is required by this IUP, and the sampling performed by the Control Authority and/or Municipality indicates a violation, the Control Authority and/or Municipality shall notify the permittee within 24 hours of becoming aware of the violation, and the permittee shall sample for the applicable parameter and submit the results of this analysis within 30 days after the POTW became aware of the violation.

3. Test Procedures

Test procedures for the analysis of pollutants shall be performed in accordance with the techniques prescribed in 40 CFR part 136 and amendments thereto unless specified otherwise in the monitoring conditions of this permit.

4. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be submitted to the Control Authority and/or Municipality. The Control Authority and/or Municipality may require more frequent monitoring or the monitoring of other pollutants not required in this permit by written notification.

5. Duty to Comply

The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Control Authority and/or Municipality Sewer Use Ordinance and is grounds for possible enforcement action.

6. Duty to Mitigate - Prevention of Adverse Impact

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health, the POTW, the waters receiving the POTW's discharge, or the environment.

7. Facilities Operation, Bypass

The permittee shall at all times maintain in good working order and operate as efficiently as possible, all control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit. Bypass of treatment facilities is prohibited except when approved in advance by the Control Authority and/or Municipality. Bypass approval shall be given only when such bypass is in compliance with 40 CFR 403.17.

8. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutants from such materials from entering the sewer system. The permittee is responsible for assuring its compliance with any requirements regarding the generation, treatment, storage, and/or disposal of "Hazardous waste" as defined under the Federal Resource Conservation and Recovery Act.

9. Upset Conditions

An "upset" means an exceptional incident in which there is an unintentional and temporary noncompliance with categorical Pretreatment Standards because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed or inadequate treatment facilities, lack of preventative maintenance, or careless or improper operations.

An upset may constitute an affirmative defense for action brought for the noncompliance. The permittee has the burden of proof to provide evidence and demonstrate that none of the factors specifically listed above were responsible for the noncompliance.

10. Right of Entry

The permittee shall allow the staff of the State of North Carolina Department of Environmental Quality, Division of Water Resources, the Regional Administrator of the Environmental Protection Agency, the Control Authority and/or Municipality, and/or their authorized representatives, upon the presentation of credentials:

1. To enter upon the permittee's premises where a real or potential discharge is located or in which records are required to be kept under the terms and conditions of this permit; and

2. At reasonable times to have access to and copy records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to sample any discharge of pollutants.

11. Availability of Records and Reports

The permittee shall retain records of all monitoring information, including all calibration and maintenance records as well as copies of reports and information used to complete the application for this permit for at least three years. All records that pertain to matters that are subject to any type of enforcement action shall be retained and preserved by the permittee until all enforcement activities have concluded and all periods of limitation with respect to any and all appeals have expired.

Except for data determined to be confidential under the Sewer Use Ordinance, all reports prepared in accordance with terms of this permit shall be available for public inspection at the Control Authority and/or Municipality. As required by the Sewer Use Ordinance, effluent data shall not be considered confidential.

12. Duty to Provide Information

The permittee shall furnish to the Director of Public Works or his/her designees, within a reasonable time, any information which the Director, his/her designee, or the Division of Water Resources may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The permittee shall also furnish, upon request, copies of records required to be kept by this permit.

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| NOTE: REQUIRED STREAMLINING CHANGE: Clarify SIU Authorized Representative and Signatory Requirements. |

13. Signatory Requirements

All reports or information submitted pursuant to the requirements of this permit must be signed and certified by the Authorized Representative as defined under the Sewer Use Ordinance. If the designation of an Authorized Representative is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, or overall responsibility for environmental matters for the company, a new authorization satisfying the requirements of this section must be submitted to [POTW Director] prior to or together with any reports to be signed by an authorized representative.

14. Toxic Pollutants

If a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Federal Clean Water Act for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit may be revised or modified in accordance with the toxic effluent standard or prohibition and the permittee so notified.

15. Civil and Criminal Liability

Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

16. Federal and/or State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable Federal and/or State law or regulation.

17. Penalties

The Sewer Use Ordinance of the Control Authority and/or Municipality provides that any person who violates a permit condition is subject to a civil penalty not to exceed $25,000 dollars per day of such violation.

Under state law, (NCGS 143-215.6B), under certain circumstances it is a crime to violate terms, conditions, or requirements of pretreatment permits. It is a crime to knowingly make any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance. These crimes are enforced at the prosecutorial discretion of the local District Attorney.

18. Need to Halt or Reduce not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity to maintain compliance with the conditions of the permit.

19. Transferability

This permit shall not be reassigned or transferred or sold to a new owner, new user, different premises, or a new or changed operation without approval of the Town.

20. Property Rights

This permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

21. Severability

The provisions of this permit are severable and, if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby.

22. Permit Modification, Revocation, Termination

This permit may be modified, revoked and reissued or terminated with cause in accordance to the requirements of the Control Authority and/or Municipality Sewer Use Ordinance and North Carolina General Statute or implementing regulations.

23. Re-Application for Permit Renewal

The permittee is responsible for filing an application for reissuance of this permit at least 180 days prior to its expiration date.

24. Dilution Prohibition

The permittee shall not increase the use of potable or process water or in any other way attempt to dilute the discharge as a partial or complete substitute for adequate treatment to achieve compliance with the limitations contained in this permit.

25. Reports of Changed Conditions

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| NOTE: REQUIRED CHANGE: Clarify Changed Conditions Requirements. |

The permittee shall give notice to the Control Authority and/or Municipality of any planned significant changes to the permittee's operations or system which might alter the nature, quality, or volume of its wastewater at least 180 days before the change. The permittee shall not begin the changes until receiving written approval from the Control Authority and/or Municipality. Also see Part II, 30 below for additional reporting requirements for spill/slug issues.

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| NOTE: OPTIONAL CHANGE: Suggested wording to further clarify Changed Conditions Requirements. |

Significant changes may include but are not limited to

1. increases or decreases to production;
2. increases in discharge of previously reported pollutants;
3. discharge of pollutants not previously reported to the Control Authority and/or Municipality;
4. new or changed product lines;
5. new or changed manufacturing processes and/or chemicals; or
6. new or changed customers.

26. Construction

No construction of pretreatment facilities or additions thereto shall be begun until Final Plans and Specifications have been submitted to the Control Authority and/or Municipality and written approval and an Authorization to Construct (A to C) have been issued.

27. Reopener

The permit shall be modified or, alternatively, revoked and reissued to comply with any applicable effluent standard or limitation for the control of any pollutant shown to contribute to toxicity of the WWTP effluent or any pollutant that is otherwise limited by the POTW discharge permit. The permit as modified or reissued under this paragraph may also contain any other requirements of State or Federal pretreatment regulations then applicable.

28. Categorical Reopener

This permit shall be modified, or alternatively, revoked and reissued, to comply with any applicable effluent standard or limitation issued or approved under Sections 302(b)(2)(C) and (D), 304(b)(2), and 307(a)(2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:

1.) contains different conditions or is otherwise more stringent than any effluent limitation in this permit; or

2.) controls any pollutant not limited in this permit.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Act then applicable.

29. General Prohibitive Standards

The permittee shall comply with the general prohibitive discharge standards in 40 CFR 403.5 (a) and (b) of the Federal pretreatment regulations.

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| NOTE: REQUIRED STREAMLINING CHANGE in Part II, 30: Two new sentences, plus other corrections. |

30. Potential Problems

The permittee shall provide protection from accidental and slug discharges of prohibited materials and other substances regulated by this permit. The permittee shall also notify the POTW immediately of any changes at its facility affecting the potential for spills and other accidental discharge, discharge of a non-routine, episodic nature, a non-customary batch discharge, or a slug load as defined in the Sewer Use Ordinance.

Additionally, the permittee shall notify by telephone the Control Authority and/or Municipality immediately of all discharges that could cause problems to the POTW including any slug loadings as defined in the Sewer Use Ordinance. If the permittee experiences such a discharge, they shall inform the Control Authority and/or Municipality immediately upon the first awareness of the commencement of the discharge. Notification shall include location of the discharge, type of waste, concentration and volume if known and corrective actions taken by the permittee. A written follow-up report thereof shall be filed by the permittee within five (5) days, unless waived by the Control Authority and/or Municipality.

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| **NOTE TO PERMIT WRITERS** |
| **CHOOSE applicable Special Condition** |
| **MAKE any needed adjustments** |
| **REMOVE rest, Including “Note to Permit Writer”** |

1. Slug/Spill Control Measures

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| NOTE TO PERMIT WRITER: REQUIRED STREAMLINING CHANGE in Part III, 1: 403 now requires POTW that require SIUs to implement any slug/spill control measures, to list those measures in the IUP. Additionally, 403 allows POTWs to require the traditional Slug/Spill Control Plan or to require any specific other measure. For example, the POTW might require one or more of the following “example measures.”1. Submit Slug/Spill Control Plan in accordance with SUO [Section 2.8(c)]; Implement Upon POTW Approval2. Implement approved Slug/Spill Control Plan3. Implement POTW Approved (Insert Name of SIU’s Plan/SOP/Other Document)4a. Submit plans for installation of berms around XXX, with alarms to detect spills and an SOP of operation.4b. Complete installation of berms and alarms and commence implementation of approved SOP.5. Plug Floor Drains in \_(list areas here)\_\_.These or any other “measures” a POTW wants to require would be listed in the blanks in the Suggested Special Condition below, with any applicable due dates. |

In addition to the requirements in Part II, 30, the Permittee shall complete installation and/or commence implementation, operation, and/or maintenance of the following specific protection Measures, Activities, Plans. Etc. (Items without specific completion dates, or marked as “Continuous.” must be performed for the entire duration of the permit):

|  |  |
| --- | --- |
| Description of Measure, Activity, Plan, etc.  | Required Completion/ Implementation Date |
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The permittee shall provide updates to the Control Authority as required by Part II, 30, of this IUP. Modifications to the measures shall be approved by the Control Authority prior to installation/implementation. If a measure fails, the Control Authority shall be notified within 24 hours.

2. Sludge Management Plan

Ninety days prior to the initial disposal of sludge generated by any pretreatment facility, the permittee shall submit a sludge management plan to the Control Authority.

3. Flow Measurement Requirements
 (For SIUs with discharge flow meters)

The permittee shall maintain appropriate discharge flow measurement devices and methods consistent with approved scientific practices to ensure the accuracy and reliability of measurements of the volume of monitored discharges. Devices installed shall be a continuous recording flow meter capable of measuring flows with a maximum deviation of less than 10% from true discharge rates throughout the range of expected discharge volumes. The devices shall be installed, calibrated, and maintained to ensure accuracy. At the time of issuance of the permit, this method consists of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. The meter shall be calibrated every \_\_\_\_\_\_\_\_\_\_\_\_ (enter time period). Modifications to the flow metering equipment shall be approved by the Control Authority prior to installation. If a required flow measurement device fails, the Control Authority shall be notified within 24 hours.

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|  | **OR:** |  |
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3. Flow Measurement Requirements
 (For SIUs currently without discharge flow meters)

a.) Temporary Flow Measurement Method

Until such time as discharge flow measurement devices for individual regulated pipes are required by the Control Authority, the permittee shall record the water meter reading providing water to the facility at the beginning and end of each composite sample collection time period, convert this to an estimate of the daily discharge flow for each pipe, and report this value on the discharge monitoring report form.

b.) Installation of Discharge Flow Measurement Devices

If required by any of the following:

the Control Authority,

Submit Plans to Control Authority by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Complete Installation by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Use of production based Effluent Limits

Use of Mass based Effluent Limits

Use of Combined Wastestream Formula Effluent Limits

the permittee shall install appropriate discharge flow measurement devices and methods consistent with approved scientific practices to ensure the accuracy and reliability of measurements of the volume of monitored discharges. Devices installed shall be a continuous recording flow meter capable of measuring flows with a maximum deviation of less than 10% from true discharge rates throughout the range of expected discharge volumes. The devices shall be installed, calibrated, and maintained to ensure accuracy. If a required flow measurement device fails, the Control Authority shall be notified within 24 hours. Modifications to the flow metering equipment shall be approved by the Control Authority prior to installation.

4. Certified Laboratory Analysis

Pollutant analysis shall be performed by a North Carolina Division of Water Resources Certified Laboratory that is certified in the analysis of the pollutant in wastewater.

5. Certified Operator

Pursuant to Chapter 90A-44 of North Carolina General Statutes, and upon classification of the facility by the Certification Commission, the permittee shall employ a certified wastewater pretreatment plant operator in responsible charge (ORC) of the wastewater treatment facilities. Such operator must hold a certification of the type and grade equivalent to, or greater than the classification assigned to the wastewater treatment facilities by the Certification Commission. The permittee must also employ a certified backup operator of the appropriate type and grade to comply with the conditions of Title 15A, Chapter 8G .0200. The ORC of the facility must visit the wastewater facility as required; must properly manage and document daily operation and maintenance of the facility; and must comply with all other conditions of Title 15A, Chapter 8G .0200. The permittee shall submit a letter designating the operator in responsible charge to the Certification Commission or their designee within thirty days after facility classification.

6. Total Toxic Organics (TTO) Definition

"TTO", or Total Toxic Organics, is the sum of the concentrations of the toxic organic compounds listed in 40 CFR \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that are found in the permittee's process discharge at a concentration greater than 0.01 mg/l.

7. Total Toxic Organics (TTO) Certification

In lieu of monitoring for TTO, the permittee may, upon submitting to the Control Authority one sample showing TTO compliance and a toxic organic management plan, make the following certification every six months:

 "Based upon my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge, no dumping of concentrated toxic organics into the wastewaters has occurred since filing of the last monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to the Control Authority."

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| NOTE TO PERMIT WRITER: If SIU decides not to submit certification, the POTW must perform TTO analysis at least once per year in order to comply with 15A NCAC 02H .0908(d). Wording below addresses this, in particular requiring the July through December certification to be submitted before the end of December (we suggest the 15th or maybe earlier), so that the POTW will actually have time to collect the TTO sample before the end of December. Note wording about billing is optional. |

At a minimum, the certification statements are due by \_\_\_\_\_\_\_\_\_\_\_ of each year covering the January through June six month period, and December \_\_\_\_\_of each year covering the July through December six month reporting period. If the certification is not submitted for both periods within \_\_\_\_\_ days of the respective due dates, the Control Authority shall collect TTO samples before December 31 {and the permittee may be billed for the cost of the TTO sampling and/or analysis}.

8. Toxic Organic Management Plan

Within ninety days of the issuance of this permit, the permittee shall develop and submit to the Control Authority a toxic organic management plan.

9. Production Records
 (for Categorical Industrial Users Covered by Production Based Categorical Standards only)

The permittee shall keep records of the number of off-pounds of metal processed each day of production for each core and ancillary operation covered by 40 CFR \_\_\_\_\_\_\_\_\_. These records shall be submitted to the Control Authority by \_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_ (enter as dates), and shall cover the previous six month report period (January through June and July through December). Additionally, the applicable daily production data shall be recorded in all submittals of sampling data.

Additionally, the permittee shall notify the [POTW Director] within two (2) business days after the User has a reasonable basis to know that the production level will significantly change within the next calendar month. 40 CFR 403.6(c)(9).

10. Combined Wastestream Formula Flow Condition
 (for Categorical Industrial Users only)

Regulated Categorical Process Flow:

The permittee shall have available flow monitoring equipment at such locations as necessary to measure the total daily volume of wastewater discharged that is covered by 40 CFR \_\_\_\_\_\_\_\_\_\_\_\_. This flow monitoring equipment shall also be capable of measuring flows with a maximum deviation of less than 10% from true discharge rates throughout the range of expected discharge volumes, however it is not required that it be continuous recording. At the time of issuance of the permit, this method consists of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_and the frequency shall be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_and data shall be collected and reported as required in Part II, 1-4 of this IUP. Modifications to the flow metering equipment shall be approved by the Control Authority prior to installation.

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| NOTE TO PERMIT WRITER: The following are OPTIONAL STREAMLINING CONDITIONS |

11. Monitoring Waiver Parameters

Monitoring by the permittee and the Control Authority has been waived for the following parameters in accordance with 40 CFR 403.12(e)(2).

|  |  |
| --- | --- |
| Parameter Name | 40 CFR \_\_\_\_\_\_ Standards |
|  |  |
|  |  |
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The permittee shall provide the following certification with each report required by Part II, 2, of this IUP, but in no case less than once every six months.

 "Based upon my inquiry of the person or persons directly responsible for managing compliance with the Pretreatment Standards for 40 CFR \_\_\_\_\_\_\_\_, I certify that, to the best of my knowledge, there has been no increase in the level of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in the wastewaters due to the activities at the facility since filing of the [[[last monitoring report]]] [[[last periodic report under 40 CFR 403.12(e)(1).]]]"

In the event that a waived parameter is found to be present or is expected to be present based on changes that occur in the permittee’s operations, the permittee shall immediately notify the Control Authority and sample for the parameter within \_\_\_\_\_\_\_days of the notification.

12. Equivalent Concentration Limits

This SIU is subject to 40CFR \_\_\_\_\_, and has been approved for Equivalent Concentration Limits as allowed by 40 CFR 403.6(c). In order to demonstrate dilution is not being used, and to remain eligible for the Equivalent Concentration Limits, the following conditions must be met.

* 1. Continue appropriate effluent flow monitoring. Currently consisting of [fill in method & frequency].
	2. Record production rates.
	3. Submit monthly flow and production rate summaries by the 20th day of the following month, with an analysis of flow and production rate changes to demonstrate no dilution.

Increases in flow not accompanied by a corresponding increase in production may be an indication of dilution, will be investigated and could result in disqualification.

13. Equivalent Mass Limits

This SIU is subject to 40CFR \_\_\_\_\_, and has been approved for Equivalent Mass Limits for Concentration Limits as allowed by 40CFR 403.6(c)(5). In order to remain eligible for the Equivalent Mass Limits, the following conditions must be met.

1. Maintain and effectively operate control and treatment technology adequate to achieve compliance with the equivalent mass limit. Currently consisting of: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. Continue appropriate effluent flow monitoring. Currently consisting of [fill in method & frequency].
3. Continue to record production rates.
4. Notify the POTW immediately if production rates vary by more than 20% of the production used as the basis for calculating the equivalent mass limits.
5. Submit monthly flow and production rate summaries by the 20th day of the following month, with an analysis of flow and production rate changes to demonstrate no dilution.
6. Continue to employ the same or comparable water conservation measures.

Failure to comply with any of the above conditions disqualifies the User from coverage by equivalent mass limits. Pre-existing concentration-based Pretreatment Standards will be automatically enforceable at the time of disqualification.

1. IUP Basic Information

|  |  |
| --- | --- |
| Receiving POTW name: | POTW NPDES#: |
| IUP name: | IUP Number: |
| IUP Effective date: | Pipe Numbers, list all regulated pipes: |
| IUP expiration date: | IUP 40 CFR#, if applicable: |

1. IUP Survey & Application form

Attach a completed copy of the Industrial User Wastewater Survey & Application Form (see appendix 6-A)

1. IU Inspection form

Attach a copy of an Industrial User Inspection Form (see chapter 7) completed by the Control Authority within the past 12 months.

1. RATIONALE FOR LIMITATIONS:

As listed on the IUP Limits Page(s), PART I, Section F of the IUP.

RATIONALE #1:

Review of IU Monitoring Data, with no Over Allocation situation:

The following pollutants were assigned numerical limits in this IUP based on a review of monitoring data for the permittee to determine what ranges of concentrations are currently being discharged. To account for sample variability a factor was applied to the monitoring data to determine the permit limit. Permit limits assigned by the Local IUP Control Authority can not results in an Over Allocation situation for any pollutants.

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RATIONALE #2a:

Categorical Industrial Limits, with no Over Allocation situation:

Check here if Combined Wastestream Formula (CWF) or other categorical limits calculations were used. If used, Please attach calculations: (see CWF Spreadsheet, Appendix 6-F)

|  |  |
| --- | --- |
| Were used (attach calculations) |  |
| Were not used |  |

The following pollutants were assigned numerical limits in this IUP based on the categorical regulations. These limits do not result in over allocations.

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RATIONALE #3a:

Over Allocation Prevention, with IU pollutant reduction:

The following pollutants were assigned numerical limits in this IUP based on allocating the Maximum Allowable Industrial Loading (MAIL) determined with the Headworks Analysis (HWA) among all Industrial Users. The total loading of each pollutant from all permitted discharges does not exceed the MAIL. These limits do not result on over allocations.

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RATIONALE #3b:

Interim Limits for IU pollutant reduction:

The following pollutants were assigned interim numerical limits in this IUP to allow time for the industry to come compliance with final limits that will not in over allocations.

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RATIONALE #4:

4.) Other Rationale for Limitations:

The following rationale was used for developing IUP Limits.

|  |  |
| --- | --- |
| Parameter | Rationale |
|  |  |
|  |  |

RATIONALE #5a:

Non-Categorical Parameters where No Limit needed or assigned in an IUP:

The following pollutants were not assigned numerical limits in this IUP because the loadings for these pollutants from this IU were less than 5% of the MAHL. The loading of these pollutants from this IU is considered insignificant at this time.

|  |  |  |  |
| --- | --- | --- | --- |
| Pollutant | Avg SIU mg/l | Avg SIU lbs/day | 5% MAHL, lbs/day |
| Flow |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
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RATIONALE #5b:

Categorical Parameters with Waived Monitoring:

Monitoring is waived for the following categorical parameters (attach documentation of waiver justification).

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