**Example IUP for Will Plateit - CWF**

**Exactly Like Other Will Plateit IUP**

**Except**

**Sampling Point Moved from “Process only”**

**To “Process plus Dilution”**

**With Combined Wastestream Formula**

**IUP Parts revised – all highlighted in yellow:**

**Part I, D: Description of Discharge**

**Part I, E: Sample Point Diagram**

**Part I, F: Limits Page**

**Part III, 9: Combined Wastestream Formula Flow Condition**

**IUP Synopsis:**

|  |  |  |
| --- | --- | --- |
|  |  | **Town of Typicalville** |
|  |  | Control Authority and/or Municipality |

**PERMIT**

Industrial User Pretreatment Permit (IUP)

To Discharge Wastewater Under the

Industrial Pretreatment Program

|  |  |  |
| --- | --- | --- |
| **006** |  | **433.17** |
| 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:

|  |  |
| --- | --- |
| Industry name, Permittee: | **Will Plateit Company** |
| Facility Located at Street Address | **1234 Industry Drive** |
| City | **Typicalville** |
| State, Zip | **NC 27666** |

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:

|  |  |
| --- | --- |
| IUP Control Authority and/or Municipality WWTP name: | Town of Typicalville WWTP |
| NPDES Number: | **NC0012345** |
| WWTP Address: | **1234 Wastewater Drive** |
| City, State, Zip | **Typicalville, NC 27666** |

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).

|  |
| --- |
| Effective date, this permit and the authorization to discharge shall become effective at 12:01 am on this date:  **January 1, 2009** |
| Expiration date, this permit and the authorization to discharge shall expire at midnight on this date:  **December 31, 2013** |

|  |  |  |
| --- | --- | --- |
| November 15, 2008 |  | Jane D. Wastewater, PE |
| Date signed |  | Director of Public Works |

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:

|  |  |
| --- | --- |
| Receiving Control Authority & WWTP name :  **Town of Typicalville WWTP** | POTW NPDES # :  **NC0012345** |
| IUP Name :  **Will Plateit Company** | IUP Number :  **006** |
| IUP Effective date :  **January 1, 2009** | Pipe Numbers, list all regulated pipes:  **001** |
| IUP Expiration date:  **December 31, 2013** | IUP 40 CFR # (if applicable), or N/A:  **433.17** |

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

|  |  |  |
| --- | --- | --- |
| **Effective Date** | **Renewal or Modification** | **Description of changes over previous IUP.** |
| 1/1/89 | Renewal | No changes over previous IUP |
| 10/1/92 | Modification | Lowered cyanide limit (historical data) |
| 1/1/94 | Renewal | Added Phosphorus limit (new NPDES limit and SIU has iron phosphate operation). Revised IUP format to follow the Division Comp Guide. This rearranged conditions and added some new conditions to Part III. |
| 7/1/97 | Modification | Added mercury limit (LTMP data showed detections), and requirement to submit Slug Spill Control Plan. |
| 1/1/1999 | Renewal | Increased flow self-monitoring to daily, also Part III, 3; changed mercury limit to “<0.0002 mg/l” due to over allocation; added pH limit and TSS monitoring. |
| 1/1/2004 | Renewal | Required mercury 1631 method, removed limit; clarified pretreatment unit operator requirements – III, 5; clarified TTO POTW sampling and SIU certification requirements - III, 7. |
| 1/1/2009 | Renewal | Moved sample point to combined location. Updated to follow NC the Division 2006 Model IUP, including Streamlining. |

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.

|  |  |
| --- | --- |
| **IU Treatment Units** | |
| **List all Treatment Units:**  Flow Equalization  Chemical Precipitation, flocculation, and coagulation  Clarification  Bag Filter  Final pH adjustment  Flow meter and sampler equipment  Filter Press | **List all Treatment Units:**  10,000 gallon unit  For metals removal. Polymers added to precipitate the separation of liquids and solids.  Settling and Solids Removal  For final solids removal.  Sludge dewatering |

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.

|  |
| --- |
| Pipe # 001 , Description of Discharge:  All process wastewaters from metal finishing operations, which are covered by 40 CFR 433.17 (see diagram for which wastes must be pretreated; reverse osmosis reject water, non-contact cooling water, boiler blowdown, and domestic water.  Discharge to POTW of oils, hydraulic fluids, coolants, and paint wastes are prohibited. |

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.

Industrial Drive

Parking

**Pipe 001**

Offices

**Break Room and Restrooms**

**Domestic**

Production Area

**RO Unit**

**Untreated 433 wastes**: Rinse overflows except plating, vibratory unit

**Non-contact cooling and boiler blowdown**

**433 wastes to be treated**: All other 433 wastes, including mop water

**Pretreatment Area**

Industrial – pretreated

|  |  |
| --- | --- |
| Receiving POTW name =>  **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** | **Typicalville** |
| Receiving POTW NPDES # => | **NC0012345** |
| Effective date for these Limits => | **1/1/2009** |
| Expiration date for these Limits => | **12/31/2013** |
| IU name => | **Will Plateit** |
| IUP # => | **006** |
| Pipe # => | **001** |
| 40 CFR # => | **433.17** |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Parameters | Concentration Limits | | | Monitoring Frequency | |  |  |
|  |  | Daily Max | Monthly Average | Units | By Industry | By POTW | Sample Collection Method  (C or G) | Required Laboratory Detection Level |
| 1 | Flow | 0.098 |  | MGD | Continuous/  Daily \* | Every sample \* | Meter \* |  |
| 2 | pH | 6.0-9.0 |  | SU | Every sample | Every sample | G | 0.1 SU |
| 3 | Cadmium | 0.059 |  | Mg/l | Monthly | Once/6 Months | C | 0.002 |
| 4 | Chromium | 1.439 |  | Mg/l | Monthly | Once/6 Months | C | 0.005 |
| 6 | Copper | 1.741 |  | Mg/l | Monthly | Once/6 Months | C | 0.002 |
| 7 | Cyanide | 0.01 |  | Mg/l | Monthly | Once/6 Months | G | 0.01 |
| 8 | Lead | 0.362 |  | Mg/l | Monthly | Once/6 Months | C | 0.01 |
| 9 | Mercury \*\* |  |  | Ng/l | Once/6 months | Once/6 Months | Grab\*\* | 1 ng/l \*\* |
| 10 | Nickel | 2.002 |  | Mg/l | Monthly | Once/6 Months | C | 0.01 |
| 11 | Phosphorous |  |  | Mg/l | Monthly | Once/6 Months | C | 0.05 |
| 12 | Silver | 0.202 |  | Mg/l | Monthly | Once/6 Months | C | 0.005 |
| 13 | Zinc | 1.245 |  | Mg/l | Monthly | Once/6 Months | C | 0.01 |
| 14 | TTO \*\*\* | 1.792 |  | Mg/l | Once/6 Months \*\*\* | Once/year \*\*\* | G | 0.01 |
| 17 |  |  |  |  |  |  |  |  |

\*See Part I, G, 3 and 4, and III, 3

\*\* See Part I, G, 7

\*\*\* See Part III, 6-8

G.) Definitions and Limit Page(s) notes:

In addition to the definitions in the Town of Typicalville 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 **and proportioned for flow**. Sampling day shall be a typical production, and discharge day.

2. Daily Monitoring Frequency

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

1. Continuous/Daily Monitoring Frequency

For flow, “continuous” refers to the requirement to use a continuous recording discharge flow meter. See Part III, 3 for more details. For flow, “daily” shall mean the Permittee shall read the flow meter totalizer every day, including weekends and holidays, convert this to a daily flow, and report these daily flows to the Control Authority with the report due under Part II, 2.

4. “Every Sample” Monitoring Frequency

A Monitoring Frequency of “every sample” as specified in this IUP shall mean each time a composite or grab sample is collected.

5. 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.

6. Instantaneous measurement

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

1. Mercury Sampling and Analysis

The Permittee shall analyze for mercury using EPA Method 1631, and shall use Method 1669 Clean Sampling Techniques as needed to maintain acceptable blanks.

Outline of PART II,

|  |  |  |  |
| --- | --- | --- | --- |
| 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 |
|  |  |  |  |

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:

Jane D. Wastewater

Pretreatment Coordinator

Town of Typicalville WWTP

1234 Wastewater Drive

Typicalville, NC 27699

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.

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, sludge, 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 the effluent limitations of this permit 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 Environment and Natural Resources, 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.

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 the 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

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.

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.

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.

1. Slug/Spill Control Plan

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 date, or marked as “Continuous.” must be performed for the entire duration of the permit):

|  |  |
| --- | --- |
| Description of Measure, Activity, Plan, etc. | Required Completion/ Implementation Date |
| 1. Submit Slug/Spill Control Plan in accordance with SUO [Section 2.8(c)]; Implement Upon POTW Approval |  |

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

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 totalizer shall be non-resettleable.** The devices shall be installed, calibrated, and maintained to ensure accuracy. At the time of issuance of the permit, this method consists of **ultrasound discharge flow meter at sample point for Pipe 001**. The meter shall be calibrated every **year**. 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.

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 8A .0202. 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 8A .0202. 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.

Until the above certified operator requirements come into effect, the Permittee shall at all times have appropriately trained operators capable of properly operating all units. Permittee shall notify POTW of designated operators including credentials, within 24 hours of staff change.

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 **433.11 (e)** 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."

At a minimum, the certification statements are due by **June 30** of each year covering the January through June six month period, and **December 7** of each year covering the July through December six month reporting period. If the certification is not submitted for both periods within **7** 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. Combined Wastestream Formula Flow Condition

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 403.6 (e). 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.

1. IUP Basic Information

|  |  |
| --- | --- |
| Receiving POTW name:  **Town of Typicalville WWTP** | POTW NPDES#:  **NC0012345** |
| IUP name:  **Will Plateit** | IUP Number:  **006** |
| IUP Effective date:  **January 1, 2009** | Pipe Numbers, list all regulated pipes:  **001** |
| IUP expiration date:  **December 31, 2013** | IUP 40 CFR#, if applicable:  **433.17** |

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.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Parameters | Concentration Limits | | |  |
|  | Daily Max | Monthly Average | Units | Limits Regulated by |
| Flow | 0.098 |  | MGD | Local Limit |
| pH | 6.0-9.0 |  | SU | Local Limit |
| Cadmium | 0.059 |  | mg/l | CWF |
| Chromium | 1.439 |  | mg/l | CWF |
| Copper | 1.741 |  | mg/l | CWF |
| Cyanide | 0.01 |  | mg/l | Local Limit |
| Lead | 0.362 |  | mg/l | CWF |
| Nickel | 2.002 |  | mg/l | CWF |
| Silver | 0.202 |  | mg/l | CWF |
| Zinc | 1.245 |  | mg/l | CWF |
| TTO \*\*\* | 1.792 |  | mg/l | CWF |
|  |  |  |  |  |

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 result in an Over Allocation situation for any pollutants.

|  |
| --- |
| **Cyanide limit is much lower than categorical to allow for additional reserve MAHL. SIU sampling data shows SIU can easily comply (i.e., do not need full categorical limit).** |

RATIONALE #2:

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) | X |
| Were not used |  |

The Combined Wastestream Formula was used to determine categorical pretreatment limits.

**Total Regulated Wastestream = 26,000 gpd** = Process flow + Contact cooling + Process Related Washdown

**Total Unregulated Wastestream = 500 gpd** = RO reject wastestream. Sampling data showed contains high copper levels - 1.06 mg/l, POTW approved as "unregulated" under 403.6(e)

**Total Diluted Wastestream = 5000 gpd** = Non-contact cooling + Boiler blowdown + Domestic

**Total Wastestream = 31,500 gpd**

**Combined Wastestream Formula = (Total Regulated + Total Unregulated)/Total Wastestream**

**CWF = (26000+500)/31500 = 0.841**

****



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

|  |
| --- |
| **Cr, Cu, CN, Pb, Ag, Zn, TTO** |

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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| --- |
| **N/A** |

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.

|  |
| --- |
| **N/A** |

RATIONALE #4:

Other Rationale for Limitations:

The following rationale was used for developing IUP Limits.

|  |  |
| --- | --- |
| Parameter | Rationale |
| **PH** | SUO |
| benzene, carbon tetrachloride, chlorobenzene, ethyl benzene, methylene chloride, and trichlorofluoromethane | Parameters covered under TTO limit. TOMP documents how will keep these out of discharge, or in discharge but in compliance with IUP limit. |

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, or were greater than 5% MAHL but WWTP has significant available capacity (average influent < 50% MAHL). The loading of these pollutants from this IU is considered insignificant at this time.

|  |  |
| --- | --- |
| Average flow, mgd, used in calculations below | 0.057 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pollutant | Avg. SIU mg/l | Avg. SIU lbs/day | 5% MAHL lbs/day | 50% MAHL lbs/day | Avg. Influent lbs/day |
| Phosphorus | 54 | 25.67 | 22.52 | 225.2 | 141.1 |
| Molybdenum | 0.15 | 0.071 | 0.1502 |  |  |
| Selenium | .011 | 0.0053 | 0.0086 |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

RATIONALE #5b:

Categorical Parameters with Waived Monitoring:

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

|  |
| --- |
| **N/A** |