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PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date and lasting through permit expiration, the permittee is authorized to discharge from outfall serial number(s) 001A.

Such discharges shall be limited and monitored by the permittee as specified below:

| <u>Effluent Characteristic</u> | <u>Discharge Limitations</u> | | | | | <u>Monitoring Requirement</u> | |
|--------------------------------|------------------------------|----------------------|---|--|---|-------------------------------|--------------------|
| | Quantity - lbs./day | | Concentration - specify units | | | <u>Measurement Frequency</u> | <u>Sample Type</u> |
| | <u>Average Monthly</u> | <u>Maximum Daily</u> | <u>Average Monthly</u> *(<u>Minimum</u>) | <u>Average Weekly</u> *(<u>Average</u>) | <u>Maximum Daily</u> *(<u>Maximum</u>) | | |
| Flow | 2.01 MGD | --- MGD | | | | Continuous | Recorder |
| BOD ₅ | 502 | 838 | 30 mg/l | 45 mg/l | 50 mg/l | 3/Week | 24-Hr. Comp. |
| BOD ₅ - % Removal | | | 85% | | | 1/Month | Calculated |
| TSS | 502 | 838 | 30 mg/l | 45 mg/l | 50 mg/l | 3/Week | 24-Hr. Comp. |
| TSS - % Removal | | | 85% | | | 1/Month | Calculated |
| Settleable Solids ¹ | | | | --- ml/l | --- ml/l | 1/Day | Grab |

--- Signifies a parameter which must be monitored and data must be reported; no limit has been established at this time.

Sampling for TSS and BOD₅ shall be performed Tuesday, Thursday, and either Saturday or Sunday. All BOD₅ and TSS samples shall be taken on the influent and effluent with appropriate allowances for hydraulic detention (flow-through) time.

Sampling for Flow and Settleable Solids shall be performed Sunday-Saturday.

¹ Settleable solids monitoring has been included as a process-control parameter to aid in the assessment of the operation of the plant but no effluent limit has been established.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: Outfall 001A.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

2. During the period beginning on the effective date and lasting through permit expiration, the permittee is authorized to discharge from outfall serial number(s) 001A.

Such discharges shall be limited and monitored by the permittee as specified below:

| Effluent Characteristic | Discharge Limitations | | | | | Monitoring Requirement | |
|-------------------------------|-----------------------|------------------|----------------------------------|---------------------------------|--------------------------------|--------------------------|-------------------|
| | Quantity - lbs./day | | Concentration - specify units | | | Measurement Frequency | Sample Type |
| | Average Monthly | Maximum Daily | Average Monthly *(Minimum) | Average Weekly *(Average) | Maximum Daily *(Maximum) | | |
| Fecal Coliform | | | 200 MPN ¹ 100 ml | 400 MPN ¹ 100 ml | 400 MPN ¹ 100 ml | 3/Week | Grab |
| Total Residual Chlorine (TRC) | | | 455 ug/l ² | | 455 ug/l ² | Daily | Grab ² |
| pH | | | (6.5 SU) | | (8.5 SU) | 2/Day | Grab |

¹Two (2) of the three (3) Fecal Coliform samples are to be taken on Tuesday and Thursday. All three (3) of the Fecal Coliform samples shall be taken at the same time of day as the second TRC sample. The Geometric Mean shall be used to obtain the "weekly average" and the "monthly average."

²The use of a continuous TRC recorder after chlorination and prior to dechlorination is required to provide a record that proper disinfection was achieved at all times. Compliance with these limitations shall be determined by taking three grab samples of the final effluent (after dechlorination) Monday - Friday (except holidays), equally spaced over one (1) eight (8) hour working shift with a minimum of three hours between grabs, and on Saturdays, Sundays, and Holidays by taking at least two (2) grab samples each day with a minimum of two (2) hours between grabs. The maximum daily and average monthly values are to be computed from the averaged grab sample results for each day. The following methods may be used to analyze the grab samples: (1) DPD spectrophotometric, EPA No. 330.5 or Standard Methods (18th Edition) No.4500-CI G; (2) DPD Titrimetric, EPA No. 330.4 or Standard Methods (18th Edition) No. 4500-CI F; (3) Amperometric Titration, EPA No. 330.1 or Standard Methods (18th Edition) No. 4500-CI D or ASTM No. D1253-86(92).

*Values in parentheses () are to be reported as Minimum/Average/Maximum for the reporting period rather than Average Monthly/Average Weekly/Maximum Daily.

Sampling for pH and Chlorine Residual shall be performed Sunday-Saturday.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: Outfall 001A.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

3. During the period beginning on the effective date and lasting through permit expiration, the permittee is authorized to discharge from outfall serial number(s) 001A.

Such discharges shall be monitored by the permittee as specified below:

| <u>Effluent Characteristic</u> | <u>Discharge Limitations</u> | | | | | <u>Monitoring Requirement</u> | |
|--|------------------------------|----------------------|-------------------------------|-----------------------|----------------------|---------------------------------|-----------------------|
| | Quantity - lbs. per day | | Concentration - specify units | | | Measurement <u>Frequency</u> | Sample <u>Type</u> |
| | <u>Average Monthly</u> | <u>Maximum Daily</u> | <u>Average Monthly</u> | <u>Average Weekly</u> | <u>Maximum Daily</u> | | |
| Oil and Grease | | | | | --- mg/l | 1/Month | 3 Grabs ¹ |
| Nitrate, Total (as N) | | | | | | | |
| (Oct. 1 – Mar. 31) | | | | | --- mg/l | 1/Month | 24-Hr. Comp. |
| (April 1 – Sept. 30) | | | | | --- mg/l | 2/Month | 24-Hr. Comp. |
| Nitrite, Total (as N) | | | | | | | |
| (Oct. 1 – Mar. 31) | | | | | --- mg/l | 1/Month | 24-Hr. Comp. |
| (April 1 – Sept. 30) | | | | | --- mg/l | 2/Month | 24-Hr. Comp. |
| Total Kjeldahl Nitrogen(as N) | | | | | | | |
| (Oct. 1 – Mar. 31) | | | | | --- mg/l | 1/Month | 24-Hr. Comp. |
| (April 1 – Sept. 30) | | | | | --- mg/l | 2/Month | 24-Hr. Comp. |
| Nitrogen, Total (TKN + Nitrate + Nitrite, as N) | | | | | | | |
| (Oct. 1 – Mar. 31) | | | | | --- mg/l | 1/Month | Calculated |
| (April 1 – Sept. 30) | | | | | --- mg/l | 2/Month | Calculated |
| Ammonia, Total (as N) | | | | | | | |
| (Oct. 1 – Mar. 31) | | | | | --- mg/l | 1/Month | 24-Hr. Comp. |
| (April 1 – Sept. 30) | | | | | --- mg/l | 2/Month | 24-Hr. Comp. |

¹Three (3) grab samples shall be equally spaced over the course of an eight (8) hour shift with a minimum of three (3) hours between grabs . Each grab sample must be analyzed individually and the maximum values reported.

--- signifies a parameter which must be monitored and data must be reported; no limit has been established at this time.

Samples taken in compliance with the monitoring requirements specified above shall be taken Monday through Friday at the following location: Outfall 001A.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

4. During the period beginning on the effective date and lasting through permit expiration, the permittee is authorized to discharge from outfall serial number(s) 001A.

Such discharges shall be monitored by the permittee as specified below:

| Effluent Characteristic | Discharge Limitations | | | | | Monitoring Requirement | |
|----------------------------|-------------------------|------------------|-------------------------------|-------------------|------------------|--------------------------|------------------------|
| | Quantity - lbs. per day | | Concentration - specify units | | | Measurement Frequency | Sample Type |
| | Average Monthly | Maximum Daily | Average Monthly | Average Weekly | Maximum Daily | | |
| Copper, Total ¹ | | | 50 ug/l | | 162 ug/l | 1/ Month | 24-Hr. Comp. |
| Cyanide ² | | | 28 ug/l | | 28 ug/l | 2/Year | Composite ³ |

¹ Influent and effluent shall be sampled for Total Copper once per month. Sampling of influent and effluent shall be done to account for hydraulic detention (flow-through) time.

² Influent and effluent shall be sampled for Cyanide twice per year. Sampling of influent and effluent shall be done to account for hydraulic detention (flow-through) time.

³ Three (3) grab samples shall be equally spaced over one (1) eight (8) hour shift, with a minimum of three (3) hours between grabs. All three (3) samples shall be composited, then analyzed for available Cyanide.

Samples taken in compliance with the monitoring requirements specified above shall be taken Monday through Friday at the following locations: Outfall 001A.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

5. During the period beginning on the effective date and lasting through permit expiration, the permittee is authorized to discharge from outfall serial number(s) 001A.

Such discharges shall be monitored by the permittee as specified below:

| Effluent Characteristic | Discharge Limitations | | | | | Monitoring Requirement | |
|----------------------------|-------------------------|------------------|-------------------------------|-------------------|---------------------------------|--------------------------|----------------|
| | Quantity - lbs. per day | | Concentration - specify units | | | Measurement Frequency | Sample Type |
| | Average Monthly | Maximum Daily | Average Monthly | Average Weekly | Maximum Daily | | |
| <u>Mysidopsis bahia</u> | | | | | | | |
| LC50 ¹ | | | | | 100% or Greater ² | 1/Quarter | 24-Hr. Comp. |

¹LC₅₀ is defined as the concentration of wastewater that causes mortality to 50% of the test organisms.

²The 100% or greater limit is defined as a sample which is composed of 100% effluent.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: Outfall 001A in accordance with I.B. of the permit.

6. a. The pH of the effluent shall not be less than 6.5 nor greater than 8.5 standard units at any time, unless these values are exceeded due to natural causes or as a result of the approved treatment processes.
- b. The discharge shall not cause visible discoloration of the receiving waters.
- c. The effluent shall contain neither a visible oil sheen, foam, nor floating solids at any time.
- d. The permittee's treatment facility shall maintain a minimum of 85 percent removal of both total suspended solids and 5-day biochemical oxygen demand. The percent removal shall be based on monthly average values.
- e. When the effluent discharged for a period of 90 consecutive days exceeds 80 percent of the designed flow, the permittee shall submit to the permitting authorities a projection of loadings up to the time when the design capacity of the treatment facility will be reached, and a program for maintaining satisfactory treatment levels consistent with approved water quality management plans.
- f. The permittee shall analyze its effluent annually for the EPA Priority Pollutants as listed in 40 CFR 122, Appendix D, Table II and III. The results of these analyses shall be submitted to the Department of Environmental Management. All sampling and analysis shall be done in accordance with EPA Regulations, including 40 CFR, Part 136; grab and composite samples shall be taken as appropriate.
- g. This permit serves as the State's Water Quality Certificate for the discharges described herein.

B. BIOMONITORING REQUIREMENTS AND INTERPRETATION OF RESULTS

1. General

Beginning on the effective date of the permit, the permittee shall perform four (4) acute toxicity tests per year on samples collected from discharge outfall 001A. The permittee shall conduct the tests during dry weather periods (no rain within forty-eight (48) hours prior to or during sampling unless approved by RIDEM) according to the following test frequency and protocols. Acute data shall be reported as outlined in Section 9. Test results will be interpreted by the State. The State may require additional screening, range finding, definitive acute or chronic bioassays as deemed necessary based on the results of the initial bioassays required herein. Indications of toxicity could result in requiring a Toxicity Reduction Evaluation (TRE) to investigate the causes and to identify corrective actions necessary to eliminate or reduce toxicity to an acceptable level.

2. Test Frequency

On four (4) sampling events, (one (1) each calendar quarter) the permittee will conduct forty-eight (48) hour acute definitive toxicity tests on the species listed below, for a total of four (4) acute toxicity tests per year. This requirement entails performing one (1-) species testing as follows:

| <u>Species</u> | <u>Test Type</u> | <u>Frequency</u> |
|---------------------------------------|--|---------------------|
| | Two (2) Species Test | Four Times Annually |
| Mysids (<u>Mysidopsis bahia</u>) | Definitive 48-Hour Acute Static (LC ₅₀) | Quarterly |

3. Testing Methods

Acute definitive toxicity tests shall be conducted in accordance with protocols listed in the EPA document: Cornelius I. Weber, et. al., 1991. Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms, Fourth Edition (or the most recent edition), Office of Research and Development, Cincinnati, OH (EPA-600/4-90-027), incorporating any deviations from protocol listed herein, or additional methods if approved by the Director of RIDEM.

4. Sample Collection

For each sampling event a twenty-four (24) hour flow proportioned composite final effluent sample shall be collected during a dry weather (no rain forty-eight (48) hours prior to or during sampling unless approved by RIDEM). This sample shall be kept cool (at 4°C) and testing shall begin within twenty-four (24) hours after the last sample of the composite is collected. In the laboratory, the sample will be split into two (2) subsamples, after thorough mixing, for the following:

- A: Chemical Analysis
- B: Acute Toxicity Testing

All samples held overnight shall be refrigerated at 4°C. Grab samples must be used for pH and temperature.

5. Salinity Adjustment

Prior to the initiation of testing, the effluent must be adjusted to make the salinity of the effluent equal to that of the marine dilution water. The test solution must be prepared by adding non-toxic dried ocean salts to a sufficient quantity of 100% effluent to raise the salinity to the desired level. After the addition of the dried salts, stir gently for thirty (30) to sixty (60) minutes, preferably with a magnetic stirrer, to ensure that the salts are in solution.

It is important to check the final salinity with a refractometer or salinometer. Salinity adjustments following this procedure and in accordance with EPA protocol will ensure that the concentrations (% effluent) of each dilution are real and allow for an accurate evaluation with the acute permit limit and acute monitoring requirements.

6. Dilution Water

Dilution water used for marine acute toxicity analyses should be of sufficient quality to meet minimum acceptability of test results (See Part 7). For both species, natural seawater shall be used as the dilution water. This water shall be collected from Narragansett Bay off the dock at the URI's Graduate School of Oceanography on South Ferry Road, Narragansett. It is noted that the University claims no responsibility for the personal safety on this dock. The permittee shall observe the rules posted at the dock. If this natural seawater diluent is found to be, or suspected to be toxic or unreliable, an alternate source of natural seawater

or, deionized water mixed with hypersaline brine or artificial sea salts of known quality with a salinity and pH similar to that of the receiving water may be substituted AFTER RECEIVING WRITTEN APPROVAL FROM RIDEM.

7. Effluent Toxicity Test Conditions for Mysids¹
(*Mysidopsis bahia*)

| | | |
|----|---|--|
| a. | Test Type | 48-Hour Static Acute Definitive |
| b. | Salinity | 25 ppt \pm 10% for all dilutions |
| c. | Temperature (C) | 25° \pm 1°C |
| d. | Light Quality | Ambient laboratory illumination |
| e. | Photoperiod | 8 - 16 Hour Light/24-Hour |
| f. | Test Chamber Size | 250 ml |
| g. | Test Solution Volume | 200 ml |
| h. | Age of Test Organisms | 1 - 5 Days |
| i. | No. Mysids Per Test Chamber | 10 |
| j. | No. of Replicate Test Chamber Per Concentration | 2 |
| k. | Total No. Mysids Per Test Concentration | 20 |
| l. | Feeding Regime | Light feeding (two (2) drops concentrated brine shrimp nauplii, approx. 100 nauplii per mysid twice daily). |
| m. | Aeration | None, unless dissolved oxygen concentration falls below 40% of saturation at which time gentle single-bubble aeration should be started. |
| n. | Dilution Water | Narragansett Bay water as discussed above. |
| o. | Dilutions | Five (5) dilutions plus a control: 100%, 50%, 25%, 12.5%, 6.25% and 0% effluent. |
| p. | Effect Measured and Test | Mortality - no movement of body test duration or appendages on gentle prodding, 48-hour LC ₅₀ and NOAEL. |
| q. | Test Acceptability | 90% or greater survival of test organisms in control solution. |
| r. | Sampling Requirements | Samples are collected and used within |

24 hours after the last sample of the composite is collected.

s. Sample Volume Required Minimum four (4) liters

[†]Adapted from EPA/600/4-90/027

8. Chemical Analysis

The following chemical analysis shall be performed for every sampling event.

| <u>Parameter</u> | <u>Effluent</u> | <u>Saline Diluent</u> | <u>Detection Limit (mg/l)</u> |
|-----------------------------------|-----------------|-----------------------|-------------------------------|
| pH | X | X | --- |
| Specific Conductance | X | X | --- |
| Total Solids and Suspended Solids | X | X | --- |
| Ammonia | X | | 0.1 |
| Total Organic Carbon | X | | 0.5 |
| Cyanide | X | | 0.01 |
| Total Phenols | X | | 0.05 |
| Salinity | X | X | PPT(0/00) |

During the first, second, and fourth calendar quarter bioassay sampling events the following chemical analyses shall be performed:

| <u>Total Metals</u> | <u>Effluent</u> | <u>Saline Diluent</u> | <u>Detection Limit (µg/l)</u> |
|---------------------|-----------------|-----------------------|-------------------------------|
| Total Copper | X | X | 20.0 |

The above metal analyses may be used to fulfill, in part or in whole, monthly monitoring requirements in the permit for these specific metals.

During the third calendar quarter bioassay sampling event, the final effluent sample collected during the same twenty-four (24) hour period as the bioassay sample, shall be analyzed for priority pollutants (as listed in Tables II and III of Appendix D of 40 CFR 122). The bioassay priority pollutant scan shall be a full scan and may be coordinated with the other permit conditions to fulfill any priority pollutant scan requirements.

9. Toxicity Test Report Elements

A report of results will include the following:

- Description of sample collection procedures and site description.
- Names of individuals collecting and transporting samples, times, and dates of sample collection and analysis.
- General description of tests: age of test organisms, origin, dates and results of standard toxicant tests (quality assurance); light and temperature regime; dilution water description; other information on test conditions if different than procedures recommended.
- The method used to adjust the salinity of the effluent must be reported.
- All chemical and physical data generated (include detection limits).
- Raw data and bench sheets.
- Any other observations or test conditions affecting test outcome.

Toxicity test data shall include the following:

- Survival for each concentration and replication at time twenty-four (24) and forty-eight (48) hours.
- LC₅₀ and 95% confidence limits shall be calculated using one of the following methods in order of preference: Probit, Trimmed Spearman Karber, Moving Average Angle, or the graphical method. All printouts (along with the name of the program, the date, and the author(s)) and graphical displays must be submitted. When data is analyzed by hand, worksheets should be submitted. The report shall also include the No Observed Acute Effect Level (NOAEL) which is defined as the highest concentration of the effluent (in % effluent) in which 90% or more of the test animals survive.
- The Probit, Trimmed Spearman Karber, and Moving Average Angle methods of analyses can only be used when mortality of some of the test organisms are observed in at least two (2) of the (percent effluent) concentrations tested (i.e., partial mortality). If a test results in a 100% survival and 100% mortality in adjacent treatments ("all or nothing" effect), an LC₅₀ may be estimated using the graphical method.

10. Special Condition

Due to the fact that the suggested dilution water for this facility to use in conducting the bioassays is from the end of the dock at the URI's Narragansett Bay Campus, a Letter of Agreement must be signed and submitted to the Graduate School of Oceanography. Requests to use another source of dilution water will have to be approved by the Department of Environmental Management, Office of Water Resources.

11. Reporting of Bioassay Testing

Bioassay Testing shall be reported as follows:

| <u>Quarter Testing to be Performed</u> | <u>Report Due No Later Than</u> | <u>Results Submitted on DMR for</u> |
|--|-------------------------------------|---|
| January 1 - March 31 | April 15 | March |
| April 1 - June 30 | July 15 | June |
| July 1 - September 30 | October 15 | September |
| October 1 - December 31 | January 15 | December |

Bioassay testing following the protocol described herein shall commence during the fourth testing quarter October 1 - December 31 of 2002, and the first report shall be submitted to RIDEM no later than January 15, 2003.

Bioassay reports shall be submitted to:

Bob Richardson
Office of Water Resources
Rhode Island Department of Environmental Management
235 Promenade Street
Providence, Rhode Island 02908-5767

C. **INDUSTRIAL PRETREATMENT PROGRAM**

1. Definitions

For the purpose of this permit, the following definitions apply.

- a. 40 CFR 403 and sections thereof refer to the General Pretreatment regulations, 40 CFR Part 403 as revised July 24, 1990.
- b. Categorical Pretreatment Standards mean any regulation containing pollutant discharge limits promulgated by the USEPA in accordance with section 307(b) and (c) of the Clean Water Act(33 USC 1251), as amended, which apply to a specific category of industrial users and which appears in 40 CFR Chapter 1, subchapter N.
- c. Pretreatment Standards include all specific prohibitions and prohibitive discharge limits established pursuant to 40 CFR 403.5, including but not limited to, local limits, and the Categorical Pretreatment Standards.
- d. Regulated Pollutants shall include those pollutants contained in applicable categorical standards and any other pollutants listed in the Pretreatment Standards which have reasonable potential to be present in an industrial users effluent.

2. Implementation

The authority and procedures of the Industrial Pretreatment Program shall at all times be fully and effectively exercised and implemented, in compliance with the requirements of this permit and in accordance with the legal authorities, policies, procedures and financial provisions described in the permittee's approved Pretreatment Program and Sewer Use Ordinance, the Rhode Island

Pretreatment Regulations and the General Pretreatment Regulations 40 CFR 403. The permittee shall maintain adequate resource levels to accomplish the objectives of the Pretreatment Program.

3. Local Limits

Pollutants introduced into POTWs by a non-domestic source (user) shall not: pass through the POTW, interfere with the operation or performance of the works, contaminate sludge as to adversely effect disposal options, or adversely effect worker safety and health.

- a. Within thirty (30) days of the effective date of this permit, the permittee shall submit to the DEM, in the form of a non-substantial program modification request, a local limits monitoring plan and procedures to ensure that an adequate database is available for periodic evaluation and, if necessary, re-development of local limits. At a minimum, the monitoring plan and procedures must ensure that adequate, site-specific data is available to calculate, for all pollutants of concern, POTW removal efficiencies, concentrations of pollutants entering secondary treatment, the volume of sludge produced and the pollutant concentrations contained therein, and the pollutant loadings contributed to the POTW from domestic sources. In addition, the monitoring plan must provide for at least annual analysis of the POTW's influent for all priority pollutants in order to identify additional or new pollutants of concern. The monitoring plan should incorporate and utilize to the extent possible the monitoring required by Part I.A of this permit. The permittee is referred to EPA's December, 1987 Guidance Manual on the Development and Implementation of Local Discharge Limitations Under the Pretreatment Program for assistance in development the monitoring plan and procedures. Upon review, the DEM will provide written notification either granting approval of the monitoring plan and procedures or stating the deficiencies revealed therein. Should the DEM determine that a deficiency exists in the submittal, the permittee shall submit to the DEM, within thirty (30) days of the receipt of said notice, a revised monitoring plan and procedures consistent with the DEM's notice of deficiency. No longer than thirty (30) days following DEM's final approval, the permittee shall commence implementation of the monitoring plan and procedures.
- b. At the time of renewal of this permit and in accordance with 40 CFR 122.21(j)(4) as revised July 24, 1990, the permittee shall submit to the DEM with its permit renewal application a written technical evaluation of the need to revise local limits. The evaluation shall be based, at a minimum, on information obtained during the implementation of the permittee's approved local limits monitoring plan and procedures and current RIPDES permit discharge limits, sludge disposal criteria, secondary treatment inhibition, and worker health and safety criteria.

4. General

- a. The permittee shall carry out inspection, surveillance, and monitoring procedures which will determine, independent of information supplied by the industrial user, whether the industrial user is in compliance with Pretreatment Standards. At a minimum, all significant industrial users shall be inspected and monitored for all regulated pollutants at the frequency established in the approved Industrial Pretreatment Program but in no case less than once per year (one (1) year being determined as the reporting year established in Part I.C.6 of this permit). In addition, these inspections, monitoring and surveillance activities must be conducted in accordance with EPA's Industrial User Inspection and Sampling Manual for POTW's, April 1994. All inspections, monitoring, and surveillance activities shall be performed, and have records maintained, with sufficient care to

produce evidence admissible in enforcement proceedings or judicial actions. The permittee shall evaluate, at least every two years, whether each SIU requires a slug control plan. If a slug control plan is required, it must include, at a minimum, those elements contained in 40 CFR 403.8(f)(2)(v).

- b. The permittee shall reissue all necessary Industrial User (IU) control mechanisms within thirty (30) days of their expiration date. The permittee shall issue, within sixty (60) days after the determination that an IU is a Significant Industrial User (SIU), all SIU control mechanisms. All SIU control mechanisms must contain, at a minimum, those conditions stated in 40 CFR 403.8(f)(1)(iii). All control mechanisms must be mailed via Certified Mail, Return Receipt Requested. A complete bound copy of the control mechanism with the appropriate receipt must be kept as part of the Industrial User's permanent file. In addition, the permittee must develop a fact sheet describing the basis for the SIU's permit and retain this fact sheet as part of the SIU's permanent file.
- c. The permittee must identify each instance of noncompliance with any pretreatment standard and/or requirement and take a formal documented action for each instance of noncompliance. Copies of all such documentation must be maintained in the Industrial User's permanent file.
- d. The permittee shall prohibit Industrial Users from the dilution of a discharge as a substitute for adequate treatment in accordance with 40 CFR 403.6(d).
- e. The permittee shall comply with the procedures of 40 CFR 403.18 for instituting any modifications of the permittee's approved Pretreatment Program. Significant changes in the operation of a POTW's Approved Pretreatment Program must be submitted and approved following the procedures outlined in 40 CFR 403.18(b) and 403.9(b). However, the endorsement of local officials responsible for supervising and/or funding the pretreatment program required by 403.9(b)(2) will not be required until DEM completes a preliminary review of the submission. The DEM will evaluate and review the permittee's initial proposal for a modification and provide written notification either granting preliminary approval of the proposed modifications or stating the deficiencies contained therein. DEM's written notification will also include a determination whether the submission constitutes a substantial or non-substantial program modification as defined by 40 CFR 403.18. Should DEM determine that a deficiency exists in the proposed modification, the permittee shall submit to DEM, within thirty (30) days of the receipt of said notice, a revised submission consistent with DEM's notice of deficiency.

Pretreatment program modifications which the permittee considers Non-substantial, shall be deemed to be approved within (90) days after submission of the request for modification, unless DEM determines that the modification is in fact a substantial modification or notifies the permittee of deficiencies. Upon receipt of notification that DEM has determined the modification is substantial, the permittee shall initiate the procedures and comply with the deadlines for substantial modifications, which are outlined below.

For substantial modifications, the permittee shall, within sixty (60) days (unless a longer time frame is granted) of the receipt of DEM's preliminary approval of the proposed modification, submit a statement (as required by 403.9(b)(2)) that any local public notification/participation procedures required by local law have been completed and upon approval by RIDEM, the local officials will endorse and/or approve the modification.

Within thirty (30) days of DEM's final approval of the proposed modification(s), the permittee shall implement the modification. Upon final approval by the DEM and adoption by the permittee, this modification(s) shall become part of the approved

pretreatment program and shall be incorporated into this permit in accordance with 40CFR 122.63(g).

- f. All sampling and analysis required of the permittee, or by the permittee of any Industrial User, must be performed in accordance with the techniques described in 40 CFR 136.
- g. For those Industrial Users with discharges that are not subject to Categorical Pretreatment Standards, the permittee shall require appropriate reporting in accordance with 40 CFR 403.12(h).
- h. The permittee shall, in accordance with 40 CFR 403.12(f), require all Industrial Users to immediately notify the permittee of all discharges by the Industrial User that could cause problems to the POTW, including slug loadings, as defined by 40 CFR 403.5(b).
- i. The permittee shall require all Industrial Users to notify the permittee of substantial changes in discharge as specified in 40 CFR 403.12(j).
- j. The permittee shall require New Sources to install and have in operation all pollution control equipment required to meet applicable Pretreatment Standards before beginning to discharge. In addition, the permittee shall require New Sources to meet all applicable Pretreatment Standards within the shortest feasible time which shall not exceed ninety (90) days in accordance with 40 CFR 403.6(b).
- k. The permittee shall require all Industrial Users who are required to sample their effluent and report the results of analysis to the POTW to comply with signatory requirements contained in 40 CFR 403.12(l) when submitting such reports.
- l. The permittee shall determine, based on the criteria set forth in 40 CFR 403.8(f)(2)(vii), using the EPA method of "rolling quarters", the compliance status of each Industrial User. Any Industrial User determined to meet Significant Non-Compliance (SNC) criteria shall be included in an annual public notification as specified in 40 CFR 403.8(f)(2)(vii).
- m. The permittee shall require Industrial Users to comply with the notification and certification requirements of 40 CFR 403.12(p)(1), (3) and (4) pertaining to the discharge of substances to the POTW, which if disposed of otherwise, would be a hazardous waste under 40 CFR Part 261.
- n. The permittee shall continue to designate, as SIUs, those Industrial Users (IUs) which meet the definition contained in the permittee's sewer use ordinance.

The permittee shall notify each newly designated SIU of its classification as an SIU within thirty (30) days of identification and shall inform the SIU of the requirements of an SIU contained in 40 CFR 403.12.

5. Categorical Industrial Users (CIUs)

- a. The permittee shall require Industrial Users to comply with applicable Categorical Pretreatment Standards in addition to all applicable Pretreatment Standards and Requirements. The permittee shall require of all Categorical Industrial Users (CIUs), all reports on compliance with applicable Categorical Pretreatment Standards and Categorical Pretreatment Standard deadlines as specified in and in accordance with Sections (b), (d), (e) and (g) of 40 CFR 403.12. In addition, the permittee shall require Categorical Industrial Users to comply with the report signatory requirements contained in 40 CFR 403.12(1) when submitting such reports.

- b. If the permittee applies the Combined Wastestream Formula (CWF) to develop fixed alternative discharge limits of Categorical Pretreatment Standards, the application of the CWF and the enforcement of the resulting limits must comply with 40 CFR 403.6(e). The permittee must document all calculations within the control mechanism fact sheet and the resulting limits within the CIU's control mechanism. The permittee must ensure that the most stringent limit is applied to the CIU's effluent at end-of-pipe based upon a comparison of the resulting CWF limits and the permittee's local limits.
- c. If the permittee has or obtains the authority to apply and enforce equivalent mass-per-day and/or concentration limitations of production-based Categorical Pretreatment Standards, then the permittee shall calculate and enforce the limits in accordance with 40 CFR 403.6(c). The permittee must document all calculations within the control mechanism fact sheet and the resulting limits within the CIU's control mechanism.

6. Annual Report

The annual report for the permittee's program shall contain information pertaining to the reporting year which shall extend from October 1st through September 30th and shall be submitted to the DEM by November 15th. Each item below must be addressed separately and any items which are not applicable must be so indicated. If any item is deemed not applicable a brief explanation must be provided. The annual report shall include the following information pertaining to the reporting year:

- a. A listing of Industrial Users which complies with requirements stated in 40 CFR 403.12(i)(1). The list shall identify all Categorical Industrial Users, Significant Industrial Users and any other categories of users established by the permittee;
- b. A summary list, including dates, of any notifications received by the permittee of any substantial change in the volume or character of pollutants being introduced into the POTW by new or existing IUs. If applicable, an evaluation of the quality and quantity of influent introduced into the POTW and any anticipated impact due to the changed discharge on the quantity or quality of effluent to be discharged from the POTW shall be included;
- c. A summary list of the Compliance status of each Industrial User (IU), as of the end of last quarter covered by the annual report. The list shall identify all IUs in non-compliance, the pretreatment program requirement which the IU failed to meet, and the type, and date of the enforcement action initiated by the permittee in response to the violation. If applicable, the list shall also contain the date which IUs in non-compliance returned to compliance, a description of corrective actions ordered, and the penalties levied.
- d. A list of industries which were determined, in accordance with Part I.C.4(l) of this permit, to be in significant non-compliance required to be published in a local newspaper and a copy of an affidavit of publication, from the newspaper, averring that the names of these violators has been published;
- e. A summary list of inspection and monitoring activity performed by the permittee, including;
 - significant industrial users inspected by the POTW (include inspection dates for each industrial user);
 - significant industrial user sampled by the POTW (include sampling dates and dates of analysis, for each industrial user);

- f. A summary list of permit issuance/reissuance activities including the name of the industrial user, expiration date of previous permit, issuance date of new permit, and a brief description of any changes to the permit;
- g. A list including the report/notification type, due date, and receipt date for each report/notification required by 40 CFR 403.12.
- h. A summary of public participation efforts including meetings and workshops held with the public and/or industry and notices/newsletters/bulletins published and/or distributed;
- i. A program evaluation in terms of program effectiveness, local limits application and resources which addresses but is not limited to:
 - A description of actions being taken to reduce the incidence of SNC by Industrial Users;
 - effectiveness of enforcement response program;
 - sufficiency of funding and staffing;
 - sufficiency of the SUO, Rules and Regulations, and/or statutory authority;
- j. An evaluation of recent/proposed program modifications, both substantial and non-substantial, in terms of the modification type, implementation and actual/ expected effect (note proposed modifications must be submitted under separate cover along with the information required by 40 CFR 403.18);
- k. A detailed description of all interference and pass-through that occurred during the past year and, if applicable;
 - A thorough description of all investigations into interference and pass-through during the past year;
 - A description of the monitoring, sewer inspections and evaluations which were done during the past year to detect interference and pass-through, specifying pollutants analyzed and frequencies;
- l. A summary of the average, maximum concentration, minimum concentration, and number of data points used for pollutant analytical results for influent, effluent, sludge and any toxicity or bioassay data from the wastewater treatment facility. The summary shall include a comparison of influent sampling results versus the maximum allowable headworks loadings contained in the approved local limits evaluation and effluent sampling results versus water quality standards. Such a comparison shall be based on the analytical results required in Parts I.A and I.C. of this permit and any additional sampling data available to the permittee; and
- m. A completed pretreatment annual report summary (PARS) form (Attachment A-1 contains a copy of the PARS form, this form MUST be used).

D. OPERATION AND MAINTENANCE OF THE SEWER SYSTEM

Operation and maintenance of the sewer system shall be in compliance with the General Requirements of Part II and the following terms and conditions:

1. Maintenance Staff

The permittee shall provide an adequate staff to carry out the operation, maintenance, repair, and testing functions required to ensure compliance with the terms and conditions of this permit.

2. Infiltration/Inflow

The permittee shall minimize infiltration/inflow to the sewer system. A summary report of all actions taken to minimize infiltration/inflow during the previous six (6) months shall be submitted to RIDEM, Office of Water Resources, by the 15th day of January and July of each year. The first report is due January 15, 2003.

E. **SLUDGE**

The permittee shall conform and adhere to all conditions, practices and regulations as contained in the State of Rhode Island Rules and Regulations for the Treatment, Disposal, Utilization and Transportation of Sewage Sludge. The permittee shall comply with its RIDEM Order of Approval for the disposal of sludge.

F. **DETECTION LIMITS**

The permittee shall assure that all **wastewater** testing required by this permit, is performed in conformance with the method detection limits listed below (**the EPA method is noted for reference, other EPA approved methods found in 40 CFR Part 136 may be utilized**). **All sludge testing required by this permit shall be in conformance with the method detection limits found in 40 CFR 503.8.** In accordance with 40 CFR Part 136, EPA approved analysis techniques, quality assurance procedures and quality control procedures shall be followed for all reports required to be submitted under the RIPDES program. These procedures are described in "Methods for the Determination of Metals in Environmental Samples" (EPA/600/4-91/010) and "Methods for Chemical Analysis of Water and Wastes" (EPA/600/4-79/020).

The report entitled "Methods for the Determination of Metals in Environmental Samples" includes a test which must be performed in order to determine if matrix interferences are present, and a series of tests to enable reporting of sample results when interferences are identified. Each step of the series of tests becomes increasingly complex, concluding with the complete Method of Standard Additions analysis. The analysis need not continue once a result which meets the applicable quality control requirements has been obtained. Documentation of all steps conducted to identify and account for matrix interferences shall be submitted along with the monitoring reports.

If, after conducting the complete Method of Standard Additions analysis, the laboratory is unable to determine a valid result, the laboratory shall report "could not be analyzed". Documentation supporting this claim shall be submitted along with the monitoring report. If valid analytical results are repeatedly unobtainable, DEM may require that the permittee determine a method detection limit (MDL) for their effluent or sludge as outlined in 40 CFR Part 136, Appendix B.

Therefore, all sample results shall be reported as: an actual value, "could not be analyzed", less than the reagent water MDL, or less than an effluent or sludge specific MDL. The effluent or sludge specific MDL must be calculated using the methods outlined in 40 CFR Part 136, Appendix B. Samples which have been diluted to ensure that the sample concentration will be within the linear dynamic range shall not be diluted to the extent that the analyte is not detected. If this should occur the analysis shall be repeated using a lower degree of dilution.

When calculating sample averages for reporting on discharge monitoring reports (DMRs):

1. "could not be analyzed" data shall be excluded, and shall not be considered as failure to comply with the permit sampling requirements;
2. results reported as less than the MDL shall be included as values equal to the MDL, and the

average shall be reported as "less than" the calculated value.

For compliance purposes, DEM will replace all data reported as less than the MDL with zeroes, provided that DEM determines that all appropriate EPA approved methods were followed. If the re-calculated average exceeds the permit limitation it will be considered a violation.

OTHER TOXIC POLLUTANTS
Updated: March 28, 2000

| | MDL ug/l (ppb) |
|--------------------------------|---|
| Antimony, Total | 5.0 - EPA Method 200.9 |
| Arsenic, Total | 5.0 - EPA Method 206.9 |
| Beryllium, Total | 0.2 - Standard Methods 18 th Ed. 3113B |
| Cadmium, Total | 1.0 - EPA Method 200.9 |
| Chromium, Total | 5.0 - Standard Methods 18 th Ed. 3113B |
| Chromium, Hexavalent*** | 20.0 - Standard Methods 16 th Ed., 312.B |
| Copper, Total | 20.0 - EPA Method 200.7 |
| Lead, Total | 3.0 - EPA Method 200.9 |
| Mercury, Total | 0.5 - EPA Method 245.1 |
| Nickel, Total | 10.0 - EPA Method 200.7 |
| Selenium, Total | 5.0 - EPA Method 200.9 |
| Silver, Total | 1.0 - Standard Methods 18 th Ed. 3113B |
| Thallium, Total | 5.0 - EPA Method 200.9 |
| Zinc, Total | 20.0 - EPA Method 200.7 |
| Asbestos | ** |
| Cyanide, Total | 10.0 - EPA Method 335.4 |
| Phenols, Total*** | 50.0 - EPA Method 420.2 |
| TCDD | ** |
| MTBE (Methyl Tert Butyl Ether) | 1.0 - EPA Method 524.2 |

* Polynuclear Aromatic Hydrocarbons

** No Rhode Island Department of Environmental Management (RIDEM) MDL

*** Not a priority pollutant as designated in the 1997 Water Quality Regulations (Table 5)

NOTE:

All MDLs have been established in accordance with the definition of "Detection Limits" in the RIDEM Water Quality Regulations for Water Pollution Control. Unless otherwise noted the MDLs have been determined in reagent water by the Rhode Island Department of Health, Division of Laboratories. The MDL for a given analyte may vary with the type of sample. MDLs which are determined in reagent water may be lower than those determined in wastewater due to fewer matrix interferences. Wastewater is variable in composition and may therefore contain substances (interferents) that could affect MDLs for some analytes of interest. Variability in instrument performance can also lead to inconsistencies in determinations of MDLs.

¹Method detection limits for these metals analyses were determined by the USEPA. They are not contrived values and should be obtainable with any satisfactory atomic absorption spectrophotometer. To insure valid data the analyst must analyze for matrix interference effects and if detected treat accordingly using either successive dilution matrix modification or method of Standard Additions (Methods for Chemical Analysis of Water and Wastes EPA-600/4-79/020).

To help verify the absence of matrix or chemical interference the analyst is required to complete specific quality control procedures. For the metals analyses listed above the analyst must withdraw from the sample two equal aliquots; to one aliquot add a known amount of analyte, and then dilute both to the same volume and analyze. The unspiked aliquot multiplied by the dilution factor should be compared to the original. Agreement of the results within 10% indicates the absence of interference. Comparison of the actual signal from the spiked aliquot to the expected response from the analyte in an aqueous standard should help confirm the finding from the dilution analysis. (Methods for Chemical Analysis of Water and Wastes EPA-600/4-79/020).

For Methods 624 and 625 the laboratory must on an ongoing basis, spike at least 5% of the samples from each sample site being monitored. For laboratories analyzing 1 to 20 samples per month, at least one spiked sample per month is required. The spike should be at the discharge permit limit or 1 to 5 times higher than the background concentration determined in Section 8.3.2,

whichever

concentration would be larger. (40 CFR Part 136 Appendix B Method 624 and 625 subparts 8.3.1 and 8.3.11).

G. MONITORING AND REPORTING

1. Monitoring

All monitoring required by this permit shall be done in accordance with sampling and analytical testing procedures specified in Federal Regulations (40 CFR Part 136).

2. Reporting

Monitoring results obtained during the previous month(s) shall be summarized and reported on Discharge Monitoring Report (DMR) Forms, postmarked no later than the 15th day of the month following the completed reporting period. A copy of the analytical laboratory report, specifying analytical methods used, shall be included with each report submission. The first report is due on January 15, 2003. Signed copies of these, and all other reports required herein, shall be submitted to:

Senior Computer Operator
Office of Water Resources
RIPDES Program
Rhode Island Department of Environmental Management
235 Promenade Street
Providence, Rhode Island 02908

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
235 PROMENADE STREET
PROVIDENCE, RHODE ISLAND 02908-5767

FACT SHEET

RHODE ISLAND POLLUTANT DISCHARGE ELIMINATION SYSTEM (RIPDES) PERMIT TO DISCHARGE TO WATERS OF THE STATE

RIPDES PERMIT NO. **RI0100056**

NAME AND ADDRESS OF APPLICANT:

Town of Warren
Warren Town Hall
514 Main Street
Warren, Rhode Island 02885

NAME AND ADDRESS OF FACILITY WHERE DISCHARGE OCCURS:

Warren Wastewater Treatment Facility
427 Water Street
Warren, RI 02885

RECEIVING WATER: **Warren River**

CLASSIFICATION: **SB1**

I. **Proposed Action, Type of Facility, and Discharge Location**

The above named applicant has applied to the Rhode Island Department of Environmental Management for renewal of a RIPDES Permit to discharge into the designated receiving water. The facility is engaged in the treatment of domestic and industrial sewage. The discharge is from the Warren Wastewater Treatment Facility.

II. **Description of Discharge**

A quantitative description of the discharge in terms of significant effluent parameters based on DMR data from January 1996 through September 2001 is shown on Attachment A-2.

III. **Permit and Administrative Compliance Order Limitations and Conditions**

The final effluent limitations and monitoring requirements may be found in the draft permit. Since the permittee is unable to comply with its flow limitations, RIDEM plans to enter a Consent Agreement with the permittee that includes a schedule for the remediation of Infiltration and Inflow (I/I).

IV. Permit Basis and Explanation of Effluent Limitation Derivation

The Town of Warren owns and operates the Wastewater Treatment Facility located at 427 Water Street in Warren, Rhode Island. The discharge to the Warren River consists of treated sanitary and industrial sewage contributed by the Town. Treatment consists of:

| | |
|------------------|--|
| Coarse Screening | Aeration |
| Grit Removal | Secondary Flocculation and Clarification |
| Comminution | Chlorination |
| Primary Settling | Dechlorination |

The requirements set forth in this permit are from the State's Water Quality Regulations and the State's Regulations for the Rhode Island Pollutant Discharge Elimination System (RIPDES), both filed pursuant to Chapter 46-12, as amended. RIDEM's primary authority over the permit comes from EPA's delegation of the program in September 1984 under the Federal Clean Water Act (CWA).

The "Average Monthly" and "Average Weekly" BOD₅ and TSS limitations are based upon the secondary treatment requirements of Section 301 (b)(1)(B) of the Clean Water Act (CWA) as defined in 40 CFR 133.102 (a) - (c). The "Maximum Daily" BOD₅, TSS, settleable solids, and fecal coliform are based on Rhode Island requirements for Publicly Owned Treatment Works (POTW's) under Section 401 (a)(1) of the CWA and in 40 CFR 124.53 and 124.56. The "Percent Removal" requirements are in accordance with 40 CFR 133.103. The pH limitations are based upon the Rhode Island Water Quality criteria for discharges to salt water. Oil & Grease shall also be monitored.

In order to evaluate the need for water quality based limits, it is necessary to determine the mixing which occurs in the immediate vicinity of the wastewater discharge (initial dilution). It was determined that a mixing zone and corresponding dilution factor is acceptable for the effluent from the Warren Wastewater Treatment Facility. A chronic dilution factor of 100x with a rectangular mixing zone centered on the outfall having dimensions of 500 ft. (north-south) and 300 ft. (east-west) and an acute dilution factor of 35x with a mixing zone of 50 ft. radius were established based on the findings of the *Dye Dilution Study at Warren, RI* (Aquatec, 1992). Provided in Figure #1 is a map detailing the location of the outfall and the acute and chronic mixing zones.

The final effluent limits for copper were established based on the acute and chronic saltwater aquatic life criteria using the following: dilution factors of 100 and 35 for chronic and acute, respectively; a zero background concentration; an 80% allocation factor of the criteria; and an analysis of antibacksliding and antidegradation. The saltwater aquatic life criteria comes from the Rhode Island Water Quality Regulations for and from the EPA Quality Criteria for Water, 1986 (the "Gold Book").

In accordance with 40 CFR 122.4(d)(1)(iii), it is only necessary to establish permit limits for those pollutants in the discharge which have reasonable potential to cause or contribute to the exceedance of instream criteria. In order to evaluate the need for permit limits, the most stringent calculated acute and chronic limits are compared to the Discharge Monitoring Report (DMR) and State User Fee data. Based on this analysis, permit limits are required for total residual chlorine (TRC), Total Copper, and Total Cyanide. Additionally, baseline monitoring for Total Ammonia, Total Kjeldahl Nitrogen (TKN), Nitrate, and Nitrite is required. TMDL studies investigating dissolved oxygen (DO) levels are planned and when results become available, they may indicate that reductions in the quantity of Nitrogen discharged from the Warren WWTF will be necessary. There is one pollutant for which the previous permit had limits or required monthly monitoring, specifically, Total Cyanide. However, based on an evaluation of the past five (5) years of data and on the dye study, it was revealed that the Warren Wastewater Treatment Facility has consistently demonstrated discharge levels below the permit limit. Therefore, monitoring for Total Cyanide is required only twice per year.

The effluent monitoring requirements have been specified in accordance with RIPDES regulations as well as 40 CFR 122.41 (j), 122.44 (i), and 122.48 to yield data representative of the discharge.

The EPA priority pollutants listed in 40 CFR 122, Appendix D, Table II and III shall be scanned for annually. The biomonitoring requirements are set forth in 40 CFR 131.11 and in the State's Water Quality Regulations. The bioassay requirements in the permit shall assure control of toxicity in the effluent. If continued toxicity is demonstrated, then toxicity identification and reduction will be required. Evaluation of the data collected for biotoxicity has revealed that the effluent samples from the treatment plant have demonstrated acceptable toxicity values. The State policy is to require a LC₅₀ of >100% effluent. The actual data can be found in Attachment A-2.

The permit contains requirements for the permittee to comply with the State's Sludge Regulations.

The permit contains a reporting requirement for a local program to regulate industrial discharges to the sewer system (referred to as pretreatment program). This program is being required under authority of Section 402 (b)(8) of the CWA and 40 CFR 122.44 (j) and 403.8 because the Town receives significant discharges of industrial wastewater.

The remaining general and specific conditions of the permit are based on the RIPDES regulations as well as 40 CFR Parts 122 through 125 and consist primarily of management requirements common to all permits.

V. Comment Period, Hearing Requests, and Procedures for Final Decisions

All persons, including applicants, who believe any condition of the draft permit is inappropriate must raise all issues and submit all available arguments and all supporting material for their arguments in full by the close of the public comment period, to the Rhode Island Department of Environmental Management, Office of Water Resources, 235 Promenade Street, Providence, Rhode Island, 02908-5767. In accordance with Chapter 46-17.4 of Rhode Island General Laws, a public hearing will be held prior to the close of the public comment period. In reaching a final decision on the draft permit the Director will respond to all significant comments and make these responses available to the public at DEM's Providence Office.

Following the close of the comment period, and after a public hearing, the Director will issue a final permit decision and forward a copy of the final decision to the applicant and each person who has submitted written comments, provided oral testimony, or requested notice. Within thirty (30) days following the notice of the final permit decision any interested person may submit a request for a formal hearing to reconsider or contest the final decision. Requests for formal hearings must satisfy the requirements of Rule 49 of the Regulations for the Rhode Island Pollutant Discharge Elimination System (16 July 1984).

VI. **DEM Contact**

Additional information concerning the permit may be obtained between the hours of 8:30 a.m. and 4:00 p.m., Monday through Friday, excluding holidays from:

Erin L. Papa
RIPDES Program
Office of Water Resources
Department of Environmental Management
235 Promenade Street
Providence, Rhode Island 02908
Telephone: (401) 222-4700, ext. 7201

Date

Eric A. Beck, P.E.
Supervising Sanitary Engineer
RIPDES Permitting Section
Office of Water Resources
Department of Environmental Management

**ATTACHMENT A-1
PRETREATMENT ANNUAL REPORT SUMMARY**

GENERAL INFORMATION:

PPS1 PAU1 PAU2 PAU3

| | | | | |
|--|------|---|---|---|
| Control Authority Name: | | | | |
| Address: _____ City: | | | | |
| State/Zip: | | | | |
| Coordinator Name: _____ Phone: _____ | COOR | | | |
| RIPDES Permit Number: _____ | NPID | X | X | X |
| Reporting Period - Start Date: _____ | PSSD | X | | |
| <i>Starting date that the summary covers.</i> | | | | |
| Reporting Period - End Date: _____ | PSED | X | | |
| <i>Ending date that the summary covers. Normally 12 months after start date.</i> | | | | |
| Total Number of SIU's _____ | SIUS | | X | |
| <i>This number includes the number of CIU's.</i> | | | | |
| Total Number of CIU's _____ | CIUS | | X | |

SIGNIFICANT INDUSTRIAL USER COMPLIANCE STATUS

Number of CIU's Submitting BMR's/# Required:
Number of CIU's Submitting 90-Day Compliance Reports/# Required:

| | | | | |
|--|------------|---|--|--|
| Number of SIU's in Significant Noncompliance with Pretreatment Compliance Schedules/# Required to Meet Schedules: | _____ SSNC | X | | |
| <i>Over the reporting period, the number of SIU's in SNC because they violated a compliance schedule milestone date by 90 days or more <u>or</u> have violated a compliance schedule reporting date by 30 days or more <u>and</u> have not returned to compliance.</i> | | | | |

| | | | | |
|---|------------|--|---|--|
| Number of SIU's in SNC with Self-Monitoring Requirements: | _____ MSNC | | X | |
| <i>Over the reporting period, the number of SIU's in SNC because they failed to accurately report their noncompliance or have failed to provide self-monitoring results within 30 days of the due date <u>and</u> have not returned to compliance with the schedule or reporting.</i> | | | | |

| | | | | |
|--|------------|--|---|--|
| Number of SIU's in Significant Noncompliance for Either Violating Effluent or Reporting Requirements: | _____ PSNC | | X | |
| <i>At the <u>end</u> of the reporting period, the number of SIU's in SNC for violating an effluent standard (Local Limits, Categorical Standards or General Federal Prohibi-</i> | | | | |

tions) or for violating a reporting requirement and has NOT had adequate enforcement action taken against them by the POTW.

PRETREATMENT ANNUAL REPORT SUMMARY - Page 2

SIGNIFICANT INDUSTRIAL USER COMPLIANCE STATUS (Con't)

PPS1 PAU1 PAU2 PAU3

Number of SIU's in SNC with Reporting Requirements: _____ RSNC

At the end of the reporting period, the number of SIU's in SNC for violating a reporting requirement.

X

Number of SIU's in SNC with Effluent Requirements: _____ SNPS

At the end of the reporting period, the number of SIU's in SNC for violating their effluent standards (Local Limits, Categorical Standards or General Federal Prohibitions).

X

COMPLIANCE MONITORING PROGRAM

Number of SIU's Without Active (Expired) Permits: _____ RDN1

At the end of the reporting period, the number of SIU's that have no Industrial Discharge Permit or have an expired permit.

X

Number of SIU's With Permits Expired for 180 Days or More: _____ NOCM

Over the reporting period, the number of SIU's that did not have an Industrial Discharge Permit for more than 180 days or had an expired permit for more than 180 days.

X

Number of SIU's (Both) not Inspected and Sampled by POTW in the Past 12 Months: _____ NOIN

Over the reporting period, the number of SIU's that have not been sampled by the POTW and have not been inspected by the POTW.

X

Number of SIU's not Sampled/Not Inspected by the POTW in the Past 12 Months: _____ RDN2

Two part field. First, over the designated reporting period, the number of SIU's that have not been sampled by the POTW. Second, over the designated reporting period, the number of SIU's that have not been inspected by the POTW.

X

Number of SIU's in SNC with Self-Monitoring and Not Inspected and Not Sampled in the Past 12 Months: _____ SNIN

Over the reporting period, the number of SIU's that first, meet the criteria of MSNC and second, have not been sampled by the POTW and have also not been inspected by the POTW.

X

ENFORCEMENT ACTIONS

Number of Compliance Schedules Issued:

Over the designated reporting period, the number of SIU's that were issued a compliance schedule by the POTW.

_____ SOCS X

PRETREATMENT ANNUAL REPORT SUMMARY - Page 3

ENFORCEMENT ACTIONS (Con't)

PPS1 PAU1 PAU2 PAU3

Number of Notices of Violation Issued to SIU's:

Over the designated reporting period, the number of NOV's issued to SIU's by the POTW.

_____ VINO X

Number of Administrative Orders Issued to SIU's:

Over the designated reporting period, the number of AO's issued to SIU's by the POTW.

_____ ADOR X

Combined Total of Administrative Orders and Notices of Violation:

Over the designated reporting period, the number of AO's and NOV's issued to SIU's by the POTW.

_____ FENF X

Civil Suits Filed Against SIU's:

Over the designated reporting period, the number of civil suits filed against SIU's by the POTW.

_____ CIVL X

Criminal Suits Filed Against SIU's:

Over the designated reporting period, the number of criminal suits filed against SIU's by the POTW.

_____ CRIM X

Combined Total of Civil Suits and Criminal Suits:

Over the designated reporting period, the number of civil and criminal suits filed against SIU's by the POTW.

_____ JUDI X

Number of SIU's Published in the Newspaper as Significant Violators:

Over the designated reporting period, the number of SIU's that have been or will be published in the newspaper for being in SNC by the POTW.

_____ SVPU X

Number of SIU's From Which Penalties Were Collected:

Over the designated reporting period, the number of SIU's that the POTW has collected a penalty from.

_____ IUPN X

Total Amount of Penalties Collected:

Over the designated reporting period, the total amount of penalty dollars that has been collected from SIU's by the POTW.

_____ PAMT X

Number of SIU's Subject to Any Enforcement Action:

Over the designated reporting period, the total number of SIU's which have been subject to any type of formal enforcement action by the POTW.

_____ NENF X

ATTACHMENT A-2

DESCRIPTION OF DISCHARGE: Secondary treated domestic and industrial wastewater.
 DISCHARGE: 001A - Secondary Treatment Discharge

AVERAGE EFFLUENT CHARACTERISTICS AT POINT OF DISCHARGE:

| PARAMETER | AVERAGE ¹ | MAXIMUM ² |
|------------------------|----------------------|----------------------|
| FLOW (MGD) MGD | 1.90 MGD | 2.87 MGD |
| BOD ₅ (PPM) | 3.22 mg/l | 7.59 mg/l |
| TSS | 6.21 mg/l | 18.62 mg/l |
| Fecal Coliform | 7.14 MPN/100 ml | 218.41 MPN/100 ml |
| pH | 6.58 S.U.(minimum) | 7.12 S.U.(maximum) |
| Chlorine Residual | 0.51 ug/l | 0.94 ug/l |
| Copper | 7.35 ug/l | 8.38 ug/l |
| Cyanide | 10.32 ug/l | 10.32 ug/l |

¹Data represents statistical mean of the monthly average data from January 1996 – September 2001

²Data represents statistical mean of the daily maximum data from January 1996 – September 2001

Biotoxicity Data LC₅₀ Values (in percent effluent)

| | | | | | | | | | |
|--------------------------------------|------------------|----------|----------|------------------|----------|----------|----------|------------------|----------|
| Post-Cl ₂ Mysid Minnow | 1999 2nd qtr. | 3rd qtr. | 4th qtr. | 2000 1st qtr. | 2nd qtr. | 3rd qtr. | 4th qtr. | 2001 1st qtr. | 2nd qtr. |
| | >100 % | >100 % | >100 % | >100 % | >100 % | >100 % | >100 % | >100 % | >100 % |