

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

In accordance with the provisions of chapter nr 211 Wis.Adm.Code (Department of Natural Resources general pretreatment requirements), Federal pretreatment regulations **40 cfr 403**, and Section 6.11 of the Code of Ordinances of the City of La Crosse (hereinafter, City Ordinance Chapter 6.11).

**Trane, U.S.
Plant 4
3600 Pammel Creek Rd.
La Crosse, WI. 54601**

Is hereby authorized to discharge industrial wastewater from the above identified facility into the La Crosse Wastewater Treatment System pursuant to the effluent limitations, monitoring requirements, and other conditions set forth, in this permit.

Compliance with this permit does not relieve the permittee of its obligation to comply with any or all applicable pretreatment regulations, standards, or requirements under Local, State, and Federal laws; including any such regulations, standards, requirements, or laws that may become effective during the term of this permit.

Non-compliance with any term or condition of this permit constitutes a violation of City Ordinance Chapter 6.11.

This permit is issued to the specific user identified above and shall not be reassigned, transferred, or sold to another user or to a different address.

The terms and conditions of this permit may be amended during the life of this permit, as limitations or requirements identified in City Ordinance Chapter 6.11 are modified or changed.

This permit shall become effective on the date of signature and **shall expire at Midnight, February 16, 2019**

The permittee shall not discharge after the date of expiration. If the permittee wishes to continue to discharge after the expiration date, the permittee shall file for reissuance of this permit in accordance with the requirements of City Ordinance Chapter 6.11, at least 90 days prior to the expiration date.

La Crosse Wastewater Treatment Facility

By _____
Mark Johnson (Utilities Manager)

Dated This _____ Day of _____, Year _____

PART 1 - GENERAL PROHIBITED DISCHARGE STANDARDS

Section 1 - City of La Crosse Pretreatment Standards

No person shall discharge or deposit or allow to be discharged or deposited into the wastewater treatment system any wastewater which violates the prohibited discharge standards found in City Ordinance Chapter 6.11 (c)(1) and briefly described as follows:

- A..... Wastewater... which has a closed cup flashpoint of less than 60 degrees Centigrade or 140 degrees Fahrenheit using test methods specified in **40 cfr 261.21**.
- B. Solid or viscous wastes, or wastes that may become solid or viscous in the sewer, and may interfere with the natural flow in a sewer or make excessive sewer cleaning necessary....
- C. Garbage that has not been ground or reduced in size to such a degree that all particles are less than one-half (1/2") in any dimension
- D. Noxious or malodorous liquids, solids, or gases
- E. Waste which may cause corrosion or deterioration of the wastewater treatment system. All wastes discharged into the wastewater treatment system shall have a pH value in the range of six (6) to nine (9) Standard Units at the point of introduction into the wastewater treatment system.....
- F.Fat, wax, oil, or greases which may solidify or become viscous at temperatures between 0 and 65 degrees Celsius, or 32 and 149 degrees Fahrenheit
- G. Radioactive wastes or isotopes
- H. Substances not removable by the wastewater treatment process which will cause discoloration, opacity, or foaming of the wastewater treatment plant effluent or residues.
- I.....In no case shall wastewater with a temperature exceeding 40 degrees Celsius or 104 degrees Fahrenheit be introduced into the wastewater
- J. Unpolluted water including, but not limited to, non-contact cooling water, rain water, river water, or groundwater which will increase the hydraulic loading on the wastewater treatment system....
- K. Slug loads causing interference with wastewater treatment system or adversely affects.... residues, sludges, or scum.

PART 1 - GENERAL PROHIBITED DISCHARGE STANDARDS CONTINUED

L. Wastewater discharges, except as authorized by the Board of Public Works, in mass discharge quantities or concentrations exceeding the following:

POLLUTANT PARAMETER	LIMITATION
Biochemical Oxygen Demand (BOD)	300 mg/1 or 300 Lbs/Day
Chemical Oxygen Demand (COD)	500 mg/1 or 500 Lbs/Day
Total Suspended Solids (TSS)	300 mg,/1 or 300 Lbs/Day
Fats, Waxes, Oil, & Grease (FOG)	100 mg/1

M. Wastewater containing toxic pollutants

N. Liquids, solids, or gases which may cause the Wastewater Treatment Plant effluent or treatment residues, sludges, or scum to be unsuitable for reclamation or disposal or interfere with the reclamation or disposal process or processes ordinarily employed, including causing a reduction in the allowable land application rate or allowable land application site life by more than ten percent (10%).

O. Liquids, solids, or gases which are likely to cause the Wastewater Treatment Plant to violate WPDES standards

P. Any trucked or hauled pollutant, except at discharge points designated by the POTW.

Q. Process wastewater containing pollutants exceeding the following concentrations as established on a continuous twenty-four (24) hour flow proportional basis or lesser period if process wastewater is discharged for less than twenty-four (24) hours in an average day of operation:

LIMITS

Pollutant Parameter	Max. mg/1
Arsenic	0.45
Cadmium	0.69
Chromium	2.77
Copper	2.07
Cyanide	0.66
Lead	0.60
Mercury	0.0002
Nickel	1.91
Zinc	2.61

R. Wastewater containing mass discharge quantities of contaminant in excess of a permit limit

PART 1- GENERAL PROHIBITED DISCHARGE STANDARDS

CONTINUED Section 2 - Other Conditions City Ordinance Chapter 6.11(c)(3)

In addition to the general prohibited discharge standards established in City Ordinance 6.11(c), no person shall discharge or cause to be discharged or deposited any wastewaters or effluent which does not conform to pretreatment standards established by the Environmental Protection Agency or the Wisconsin Department of Natural Resources. Pretreatment limits shall minimally include applicable national categorical pretreatment standards for new and existing sources set out in **40 cfr, subchapter n, PARTS 401 through 471 inclusive**. Wastewater, or effluent including domestic, commercial and industrial waste, shall not contain any substance which is in violation of any State, Federal, or Local pretreatment or other discharge standard.

A. Compliance with categorical pretreatment standards - all users (existing sources or new sources) who are subject to categorical standards shall meet the compliance deadlines as outlined in Federal or State regulations.

B. Concentration and mass limits for categorical users - the control authority may, for ease of operation, convert mass limits to concentration limits. The applicable federal or state regulations will apply.

Pollution Prevention

-User shall annually review operations to see if there are alternative cleaning, painting, machining, etc., which would provide opportunity for waste reduction.

PART 1 - GENERAL PROHIBITED DISCHARGE STANDARDS CONTINUED

Section 3 — EPA Categorical Pretreatment Standards

The permittee identified on page 1 of this permit discharges certain wastewaters **which are** also subject to regulation by the following EPA categorical pretreatment standard(s).

A. 40 cfr, PART 413, Electroplating point source category; subpart e, coatings.

B. 40 cfr, PART 433, Metal finishing point source category.

Effective as of February 15, 1986, Metal finishing category pretreatment standards have superseded the Electroplating category standards and all of the Trane Company production facilities are subject to these standards. In addition, the City of La Crosse has developed local limits (see part 1, paragraph q) which may be applicable. In case of conflict, the most stringent limitation shall apply.

METAL FINISHING STANDARDS:

Pollutant	Maximum for any 1 day (mg/l)	Monthly Average shall not exceed* (mg/l)
Cadmium (T)	0.69	0.26
Chromium (T)	2.77	1.71
Copper (T)	3.38	2.07
Lead (T)	0.69	0.43
Nickel (T)	3.98	2.38
Silver (T)	0.43	0.24
Zinc (T)	2.61	1.48
Cyanide (T)	1.20	0.65
TTO	2.13	---

* **NOTE:** Monthly Average - is an average of all the results for each separate constituent during a single month.

If only one (1) sample is taken during a month, the results of that sample become the monthly average, and the values **must not exceed the "monthly average" column.**

PART 2 - SPECIFIC APPLICABLE EFFLUENT LIMITATIONS

Based on the standards identified in **Part 1**, of this permit, the applicable effluent limitations for this regulated discharge point are as follows:

PART 2 - SPECIFIC APPLICABLE EFFLUENT LIMITATIONS

Section 2 — Plant #4 Discharge

PLANT #4 — (4PTF) discharge point is located inside Plant 4, East Avenue and Townsend Street. All regulated waters are discharged through this location.

Parameter	Daily Maximum Concentration (mg/l)	Monthly Average shall not exceed (n101)	Source of Regulation Local (L) or Federal (F)
Cadmium	0.69	0.26	F
Chromium	2.77	1.71	F
Copper	2.07	2.07	L/F
Lead	0.60	0.43	L/F
Nickel	1.91	2.38	L/F
Silver	0.43	0.24	F
Zinc	2.61	1.48	F
Cyanide	0.66	0.65	L/F
TTO (1)	2.13	Not Applicable	F
Parameter	Limitations		
Chemical Oxygen Demand (COD)	See addendum		
Total Suspended Solids (TSS)	See addendum)		
pH	See addendum		
Fats, Oil and Grease (FOG)	See Addendum		
Total Phosphorus	See addendum		

(1) Total Toxic Organics (TTO) is equal to the sum of all concentrations over 0.01 mg/L for the compounds listed in **40 cfr PART 433.11 (e)**. Only industries with approved toxic organics management plans (as outlined in **PART 3, Section 2**, and reporting requirements) will be allowed to sign the toxic organics certification at the end of this permit. **Industries without approved toxic organics management plans must sample for TTO's.**

PART 3 - MONITORING AND REPORTING REQUIREMENTS

Section 1- Monitoring Requirements City Ordinance Chap. 6.11(e)

A. Start Sampling: Beginning as of the date of signature of this permit and thereafter, the permittee shall self-monitor wastewater discharges subject to regulation under **PART 2** of this permit to ascertain compliance with the applicable limitations.

B. Sampling/Flow Requirements: The required self-monitoring shall consist both of sampling and flow monitoring of the regulated wastewaters for those pollutants as listed under **PART 2** of this permit and reporting of the results to the La Crosse Wastewater Utility.

C. Sample Locations: PLANT #4 — (4PTF) is at the discharge of the Plant 4 pretreatment unit. This pretreatment unit is located in Plant 4, East Avenue and Townsend. Samples are taken from the **Final Effluent Tank** of pretreatment unit.

4PTF:

Sampling shall be done during a period of usual and/or normal operation.

Parameters	Sample Type	Frequency
cadmium, chromium, copper, lead, nickel, silver, zinc, COD, TSS and total phosphorus	C	Four(4) times per year (Once per quarter)
cyanide, pH and FOG	G	Four(4) times per year (Once per quarter)

C = Composite G = Grab

Flow Measurement Requirements: Totalize flow during the sampling episode and method(s) used to determine said flow shall be included with monitoring reports.

PART 3 - MONITORING AND REPORTING REQUIREMENTS CONTINUED

Section 2 - General Reporting Requirements City Ord. Chapter 6.11(e)

A. Report Due Date: Self- Monitoring results obtained during the following periods shall be reported as follows:

Period	Report By
January 1 st to March 31 st	April 15 th *
April 1 st to June 30 th	July 15 th *
July 1 st to September 30 th	October 15 th *
October to December 31 st	January 15 th *

* If no self-monitoring is required during a specific period, report "**No samples required this period**", on periodic compliance form, and send report prior to scheduled due date(s) above.

B. Report Form: The Wisconsin Department of Natural Resources (Wastewater Pretreatment Program Periodic Compliance Report) report form will be acceptable for these results.

C. Data Reporting Requirements: All monitoring results of all effluent samples taken and analyzed, using approved EPA test methods shall be submitted and reported with required self-monitoring reports (samples taken strictly for in-process control are exempt). Samples taken of a wastestream solely for the purpose of obtaining information about pollutant content would be included.

D. Special Conditions: If this industry has chemical, mixing, storage, dilution, or rinse tanks, etc., which are periodically dumped, a logbook showing at a minimum: the date, time (start-finish), quantity, and pH of the dump, shall be maintained for pretreatment inspection purposes.

E Toxic Organic Certification: The permittee shall submit to the pretreatment section a list of all toxic organics used and how the toxic organics are handled, stored, and disposed. A list indication any additions, deletions, or corrections to the original submittal shall be sent along with the periodic self-monitoring reports. The City will require that a copy of the attached "**Toxic Organics Certification**" be signed by the industry representative and also be submitted with the periodic compliance report described above.

F. Report Signature: All monitoring reports shall be signed and validated by a principle executive officer or designee (see signatory requirements in PART 4, Section 13 of this permit).

G. Solvent Management Plan: A specific solvent management plan is required and is on file at the Wastewater Utility.

H. Slug Control Plan: A specific slug control plan is required and is on file at the Wastewater Utility.

PART 3 - MONITORING AND REPORTING REQUIREMENTS CONTINUED

Section 3 - Other Reports

A. Non-compliance

If, **Industry self-monitoring or City compliance monitoring** (sampling done by the city) reveals a violation of any discharge limitations specified herein, **the industry shall report said violation to the City of La Crosse POTW within 24 hours of becoming aware of the violation.** The City POTW will notify permittee of any compliance sampling violations. **The industry shall repeat the sampling (within 21 days) until two (2) consecutive samples show that the non-compliance has been corrected. Additionally, a written report indicating the results of any required repeat sampling episodes and analysis shall be submitted within 30 days of becoming aware of the initial violation.** Additional monitoring episodes due to non-compliance will not be counted in fulfilling the obligation of required sampling.

B. Accidental Discharge - City Ordinance Chapter 6.11(f)(3)

If, for any reason, the permittee discharges prohibited substances caused by spills, slugs, accidental discharges, etc., **the permittee shall immediately notify personnel at the La Crosse Wastewater Treatment Plant at (608) 780-3554.**

The permittee shall identify the time of discharge, the type of substance, the quantity, the corrective action being taken, and the phone number of the person in charge of remedial action.

A written report shall be mailed to the Industrial Pretreatment Section within five (5) days of the occurrence, detailing the reasons for, and makeup of, the offending discharge and the permittee's remedial efforts, and what measures will be taken to insure that the spill, slug, or accidental discharge will not be repeated in the future

PART 4 - GENERAL CONDITIONS

In addition to compliance with PARTS **1, 2, and 3**, this permit is issued conditioned upon compliance with the following general conditions.

Section 1 - Fees - City Ordinance Chapter 6.11(d)(7)

The permittee shall pay annual fees based on the following:

- A. Annual Administrative:** Unit Cost x Fee Units
- B. Monitoring Charge:** Personnel and equipment charges for scheduled City compliance monitoring are included in the administrative costs.
- C. Laboratory Analysis Charges:** Analysis charges for samples collected for compliance monitoring will be billed to the industry for the constituents analyzed by the contract laboratory.
- D. Extraordinary Charges:** Any extraordinary charges incurred as a result of non-compliance will be billed separately to the industry.

Billing Routine: Billing for annual fees will be in the month of May.

Section 2 - Admission to Property - City Ordinance Chapter 6.11(0)(7)

Whenever it shall be necessary for the purposes of this permit, the board, or its duly appointed representatives, upon presentation of credentials, may enter upon any property or premises of the permittee at reasonable times, either scheduled or unscheduled.

Section 3 - Modification or Revision - City Ordinance Chapter 6.11(d)(4)

The terms and conditions of this permit are subject to change during the life of the permit as provided in City Ordinance Chapter 6.11, section d.4..

Section 4 - Severability or Conflict - City Ordinance Chapter 6.11(i)

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.

PART 4 - GENERAL CONDITIONS CONTINUED

Section 5 - Notice of Intent - City Ordinance Chapter 6.11(d)(4)

The permittee shall apply for permit modification prior to the introduction of any changed wastewater into the La Crosse Wastewater Treatment System. In addition according to **40 cfr 403.12 (j)** the permittee shall promptly notify the POTW in advance of any substantial change in the volume or character of pollutants in their discharge, including the listed or characteristic hazardous wastes for which the permittee has submitted initial notification under **40 cfr 403.12 (p)**.

Section 6 - Enforcement, Appeal & Penalties - City Ordinance Chap. 6.11(m)

Any permittee who has violated or is in violation of a City discharge permit, or who willfully or negligently fails to comply with any provisions of a City discharge permit, or who knowingly makes any false statement, representation or certification, or who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method, shall be subject to the enforcement provisions of City Ordinance Chapter 6.11 (j) including termination, fines and/or civil penalties.

Section 7 - Disposal of Pretreatment Sludges or Other Residues

The disposal of sludges or residues generated through pretreatment or operation shall be in accordance with section 405 of the Clean Water Act and subtitles c and d of the Resource Conservation and Recovery Act (RCRA).

Section 8 - Confidentiality - City Ordinance Chapter 6.11(g)

Except for information determined to be confidential in City ordinance 6.11, all reports required by this permit shall be available for public inspection at the Wastewater Treatment Plant, Isle La Plume, under the supervision of pretreatment personnel.

Section 9 - Records Retention - City Ordinance Chapter 6.11(e)(2)

The permittee shall retain and preserve for no less than three (3) years any records, books, documents, memoranda, reports, correspondence, and any and all summaries thereof, relating to monitoring, sampling, and chemical analysis made by or on behalf of a permittee in connection with the permittee's discharge. In addition, the permittee shall adhere to all other stipulations made under City ordinance chapter 6.11, section e (2).

PART 4 - GENERAL CONDITIONS CONTINUED

Section 10 - Dilution - City Ordinance Chapter 6.11(1)(6)

The permittee shall not increase the use of potable or process water in any way, nor mix separate waste streams for the purpose of diluting a discharge as a partial or complete substitute for adequate treatment to achieve compliance with the standards set forth in this permit.

Section 11 - Bypass **40 cfr 403.17**

The permittee shall not intentionally divert any wastestream from any portion of the permittee's pretreatment facility. There are certain conditions where a bypass may be unavoidable; these conditions are set forth in **40 cfr 403.17**. The control authority may approve an anticipated bypass after considering its adverse effects.

Section 12 - Discharge of Hazardous Waste **40 cfr 403.12 (p)**

The permittee shall notify the POTW, the EPA regional waste management division director, and state hazardous waste authorities in writing of any discharge into the POTW of a substance, which, if otherwise disposed would be a hazardous waste under **40 cfr Part 261**. The notification shall be in accordance with **40 cfr 403.12 (p)**.

Section 13 - Signatory Requirements

All reports required by this permit shall be signed by a responsible corporate officer of the permittee, or designee, as outlined in **40 cfr, 403.12 (1)** and amendments thereto, written authorization for the designee (position or individual) shall be properly signed and on file at the La Crosse Wastewater Treatment Facility, Industrial Pretreatment Section, prior to or simultaneous with submission of the required reports. All required reports shall include the following certifications.

PART 4 - GENERAL CONDITIONS CONTINUED

Section 14 — Total Toxic Organic Certification

Total Toxic Organics is keeping track of all solvents delivered to a facility, their storage, use and disposal. This includes keeping spent solvents segregated from other process wastewaters to maximize the value or recoverable solvents, to avoid contamination of other segregated wastes, and to prevent the discharge of toxic organics to any wastewater collection system or the environment.

TOXIC ORGANICS CERTIFICATION

Based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for TTO, I certify that to my knowledge and belief, no discharge of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the solvent management plan submitted to the City Wastewater Utility.

REPORT CONTENT CERTIFICATION

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

BY _____

TITLE _____

DATED _____

Reporting Address

All reports should be made to:

**La Crosse Wastewater Utility
Industrial Pretreatment Section
905 Joseph Houska Drive
La Crosse WI 54601**

Telephone No. (608) 789-7343

Addendum To Trane Company Permit

CONDITIONS:

That all pretreatment units be well maintained, staffed, and operated during times process wastewaters are being treated.

Trane Co. Representatives have indicated that a change in the upper limit for pH will improve metal removal efficiencies for the pretreatment units. Because improved metal removal efficiencies and in addition, higher pH values have been shown to retard the formation of H₂S in municipal sewers, The City of La Crosse will grant the following pH limit adjustment for all Trane locations.

Trane Co. representatives have also indicated that an ongoing policy to minimize the effects on the environment by the La Crosse operations may have caused increased BOD and TSS loadings at outfall locations. Specifically - in an effort to eliminate solvent and vapor degreasing, Trane Co. introduced both mechanical and aqueous cleaning technologies (the aqueous cleaning system further required the use of a rust preventative). Trane Co. investigations found that both the aqueous cleaning and the rust preventative solutions were high in BOD. Since that initial investigation, Trane Co. environmental personnel have been studying alternative cleaning and rust preventative solutions and several pretreatment alternatives are also being reviewed. Because Trane Company has demonstrated considerable environmental concern by developing the aqueous cleaning system (which meets pollution prevention objectives) the City of La Crosse grants the following alternative monitoring limit for plant 4. Through discussions with Trane personnel, it has been determined at this point, the current phosphorus limit of 10.0 mg/1 from the SUO cannot be achieved at this facility. They will be looking at an alternative to phosphorus containing chemicals for their pretreatment systems. We will be working with them to significantly reduce phosphorus loadings from both plants.

CONDITIONS:

That an ongoing effort be made to find aqueous cleaning and rust preventative solutions which are lower in BOD and Phosphorus or which can be effectively pretreated prior to discharge from the facility.

Location	Parameter	Limits
4PTF	COD	3000 mg/l
4PTF	TSS	750. mg/1
4PTF	Phosphorus, Total	125. mg/1
4PTF	pH	6 – 11 s.u.

Summary of Limits for 4PTF

Parameter	Daily Maximum Concentration (mg/l)	Monthly Average shall not exceed (mg/l)	Source of Regulation Local (L) or Federal (F)
Cadmium	0.69	0.26	F
Chromium	2.77	1.71	F
Copper	2.07	2.07	L/F
Lead	0.60	0.43	L/F
Nickel	1.91	2.38	L/F
Silver	0.43	0.24	F
Zinc	2.61	1.48	F
Cyanide	0.66	0.65	L/F
TTO (1)	2.13	Not Applicable	F
Parameter	Limitations		
Chemical Oxygen Demand (COD)	3000 mg/l		
Total Suspended Solids (TSS)	750. mg/l		
pH	6.0 —11.0 standard units		
Fats, Oil and Grease (FOG)	200. mg/l		
Total Phosphorus	125. mg/l		