



# CITY OF HOUSTON

**Bill White**

Mayor

Michael S. Marcotte, P.E., DEE  
Director  
Public Works & Engineering  
Department  
Industrial Wastewater Service  
10500 Bellaire Blvd.  
Houston, Texas 77072

T. 281.575.2800  
F. 281.983-6704  
[www.cityofhouston.gov](http://www.cityofhouston.gov)

January 30, 2009

**LIQUID ENVIRONMENTAL SOLUTIONS OF TEXAS  
250 GELLHORN  
HOUSTON, TX 77013**

**ATTN: KEESHA MOORE  
LAB MANAGER**

GENTLEMEN:

Attached is your firm's Industrial Waste Permit. Please refer to the permit number in all future correspondence. A copy of page one (1) of this permit should be exhibited in an area for public viewing.

Part II of this permit is the City's Industrial Waste Ordinance; Chapter 47, Article V. (Disposal of Industrial Wastes Through City Sewer System).

Also attached Please find a posting for accidental discharges to the sanitary sewer system. The posting should be placed in your process area in accordance with Section 47-195(c) of the Ordinance.

Should you have any questions, please call the Industrial Wastewater Service at (281) 575-2800.

Sincerely,

A handwritten signature in black ink, appearing to read "Clyde Smith".

Clyde Smith  
Environmental Investigator V  
Industrial Wastewater Service  
Department of Public Works & Engineering

# NOTICE TO EMPLOYEES

**In case of an ACCIDENTAL SPILL to the SANITARY SEWER,  
please call the City of Houston immediately at:**

**(281) 575-2800**

**MONDAY - FRIDAY, 7:30am to 4:30pm**

**(713) 641-9956**

**Evenings, Weekends, and Holidays**

**Posted in accordance with Chapter 47, Article V. of the City of Houston Code of Ordinances.**

# CITY OF HOUSTON

## Industrial Waste Permit Number: 6817

Department Of Public Works And Engineering  
Wastewater Operations  
Industrial Wastewater Service  
10500 Bellaire Blvd.  
Houston, Texas 77072  
Phone: (281) 575-2800

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Authorization to discharge under City of Houston Industrial Waste Ordinance  
Chapter 47; Article V.

### **LIQUID ENVIRONMENTAL SOLUTIONS OF TEXAS**

is authorized to discharge into the City's collection system raw liquid waste in accordance with the effluent limitations, monitoring requirements and other conditions set forth in this permit at the following location:

250 GELLHORN  
HOUSTON, TX 77013

Regulated Waste Offsite Disposal: Yes

EPA Categorical Limits Applicable: No

Significant Industrial User: Yes

Pretreatment: Yes

Category: **CENTRALIZED WASTE TREATMENT FACILITY**

Product/Service: **CENTRALIZED WASTE TREATMENT FACILITY FOR METALS AND  
OILY WASTES - TREATMENT AND DISPOSAL SITE FOR RESTAURANT GREASE  
TRAP WASTE & SEPTIC TANK WASTE AND, MISCELLANEOUS NON HAZARDOUS  
WASTEWATERS**

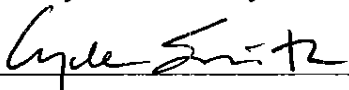
NAICS Code(s): 562219

Key Map No.: 495-C Sewer Map No.: 1216B

Treatment Plant: 69TH STREET

This permit shall become effective on 02/03/2009 and the authorization to discharge shall expire at midnight 02/03/2011.

Signed this 30<sup>th</sup> day of January 2009



Clyde Smith

Environmental Investigator V

City of Houston Pretreatment Program

**PART I****SECTION A. EFFLUENT LIMITS AND SPECIAL PROVISIONS**

1. Local Limits - City Ordinance: Chapter 47, Article V.; Disposal of Industrial Waste Through City Sewer System:
2. Special Provisions:

**Endorsement A17 - 6817 Alternative Limits Subcategory D - Metals & Oils Permit 6817**

**Endorsement S - Significant Industrial User (SIU) Compliance Evaluation Procedure**

**Endorsement SR - Semiannual Reporting Requirements**

**Endorsement U - Sewer Billing Rate - BOD & TSS is being monitored.**

**Endorsement P7A City Discharge Limits For Expected Pollutants: pH, Ag, As, Cd, Cr, Cu, Ni, Pb, Zn, Oil & Grease, BOD, TSS For Permit 6817 With Special pH Limit.**

**Endorsement SM - Self-Monitoring Sampling, Reporting and Certification Requirements**

**Endorsement TTO - City Total Toxic Organic (TTO) Limit**

**SECTION B. WATER ACCOUNTS AND SAMPLING POINTS**

1. Water and/or Sewer Account Number(s):  
4327-3276-202      5010-0010-302

2. Sampling Points:

Sample Point Number:      **1**  
 Sample Point Location:      **SOUTHSIDE OF PROPERTY BY GELLHORN**  
 Sample Point Description:      **SW#1**  
 Discharge Limits:      **LOCAL**  
 Discharge Type:      **Continuous**

Sample Point Number:      **2**  
 Sample Point Location:      **PIPE LOCATED OUTSIDE OF THE MARSH ON THE  
SOUTHEAST CORNER**  
 Sample Point Description:      **PIPE**  
 Discharge Limits:      **EPA**  
 Discharge Type:      **Continuous**

## Permitted Discharges, Process Operations and City Discharge Limits

### **Authorized Pollutants and Discharge Limits:**

The permittee is authorized to discharge the pollutants, at the allowable City of Houston discharge limits, which are listed on permit endorsement P(x). "x" will be a number after the P. There are different P endorsements used for different industries. The authorized pollutants are those pollutants that have a potential to be present, or those pollutants that the City will monitor for, in the wastewater that is discharged to the sanitary sewer from the process operations that were at the permitted facility the time this permit was issued.

### **Process Operation Changes & Unauthorized Pollutant Discharges:**

If the permittee modifies, adds or removes an industrial process operation, the permittee is required to provide written notification to the Industrial Wastewater Service to include a description of the process change and information concerning any changes in the type and or concentration of pollutants expected in the permittee's industrial discharge to the City' sanitary sewer.

The permittee is required to notify the Industrial Wastewater Service before discharging a wastestream with an unauthorized pollutant to the City's sanitary sewer. The permittee's authorized pollutants are listed on permit endorsement P.

Part 2 of this permit is the City of Houston's Industrial Waste Ordinance; Chapter 47 Article V. (Disposal of Industrial Wastes Through City Sewer System). The City of Houston's sanitary sewer discharge limits and prohibited Discharges are listed in Section 47-194 (Standard of Quality) of the Industrial Waste Ordinance.

### **Biochemical Oxygen Demand (BOD) and Total Suspended Solids (TSS):**

If a permitted discharge has an average BOD5 concentration exceeding 350 mg/L or an average TSS concentration exceeding 375 mg/L, the permittee will have a sewer rate surcharge. If the City is monitoring for BOD and TSS endorsement U will be part of this permit. If there are any water meter accounts or discharge meter accounts that are surcharged, permit endorsement U will provide the current surcharged sewer billing rate.

### **Bypass:**

#### **(a.) Definitions.**

- (1) " Bypass" means the intentional diversion of wastestreams from any portion of a treatment facility.
- (2) "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become in operable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

**Bypass (Continued):****(b) Bypass not violating applicable Pretreatment Standards or requirements.**

An Industrial User may allow any bypass to occur which does not cause Pretreatment Standards or Requirements to be violated, but only if it also is for the essential maintenance to assure efficient operation. These bypasses are not subject to the provision of paragraphs (c) and (d) of this section.

**(c) Notice.**

- (1) If an Industrial User knows in advance of the need for a bypass, it shall submit prior notice to the City of Houston's Industrial Wastewater Service (Control Authority), if possible, at least ten days before the date of the bypass.
- (2) An Industrial User shall submit oral notice of an unanticipated bypass that exceeds applicable Pretreatment Standards to the Control Authority within 24 hours from the time the Industrial User becomes aware of the bypass. A written submission shall also be provided within five days of the time that the Industrial User becomes aware of the bypass. The written submission shall contain a description of the bypass and its cause; the duration of the bypass, including exact dates and times, and, if the bypass has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the bypass. The Control Authority may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

**(d) Prohibition of bypass.**

- (1) Bypass is prohibited, and the Control Authority may take enforcement action against an Industrial User for a bypass, unless;
  - (i) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
  - (ii) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance; and
  - (iii) The Industrial User submitted notices as required under paragraph (c) of this Bypass Section of this Industrial Waste Permit.
- (2) The Control Authority may approve an anticipated bypass, after considering its adverse effects, if the Control Authority determines that it will meet the three conditions listed in paragraph (d) (1) of this section.

### **Slug Load / Slug Discharge and Slug Discharge Control Plans:**

Slug Load or Slug Discharge is defined as any discharge of a non-routine, episodic nature, including but not limited to an accidental spill or a non-customary batch discharge, which has a reasonable potential to cause interference or pass through, or in any other way violate the POTW's regulations, local limits or permit conditions.

Industrial Users of the City's sanitary sewer are required to notify the Industrial Wastewater Service immediately of any change at its facility that affects the potential for a slug discharge to the sanitary sewer.

The City will determine by inspection of the permitted facility if the potential exists for a slug discharge to the sanitary sewer. If it is determined that the potential exists for a slug discharge a Slug Discharge Control Plan or other action to prevent / control a slug discharge will be required. The permittee's Industrial Waste Permit may be amended to add a permit endorsement to require a Slug Discharge Control Plan. The permit endorsement will include the minimum elements of an acceptable Slug Discharge Control Plan.

## ENDORSEMENT A17 – ALTERNATIVE CATEGORICAL DISCHARGE LIMITS

### Alternative discharge limits for Industrial Waste Permit No. 6817

40 CFR 437 Subpart D – Metals and Oils

Alternative discharge limits using the combined wastestream formula:

| Pollutant                   | Daily Maximum Limit | Monthly Average Limit |
|-----------------------------|---------------------|-----------------------|
| Antimony                    | 0.222 mg/L          | 0.132 mg/L            |
| Arsenic                     | 0.152 mg/L          | 0.097 mg/L            |
| Cadmium                     | 0.444 mg/L          | 0.090 mg/L            |
| Chromium                    | 0.886 mg/L          | 0.456 mg/L            |
| Cobalt                      | 0.180 mg/L          | 0.116 mg/L            |
| Copper                      | 0.379 mg/L          | 0.282 mg/L            |
| Cyanide (In-plant)          | 468.0046 mg/L       | 166.6096 mg/L         |
| Lead                        | 0.208 mg/L          | 0.161 mg/L            |
| Mercury                     | 0.00219 mg/L        | 0.00069 mg/L          |
| Nickel                      | 3.697 mg/L          | 1.357 mg/L            |
| Silver                      | 0.112 mg/L          | 0.033 mg/L            |
| Tin                         | 0.383 mg/L          | 0.112 mg/L            |
| Titanium                    | 0.089 mg/L          | 0.058 mg/L            |
| Vanadium                    | 0.204 mg/L          | 0.062 mg/L            |
| Zinc                        | 2.686 mg/L          | 0.600 mg/L            |
|                             |                     |                       |
| <b>ORGANIC ANALYTES</b>     |                     |                       |
| Bis(2-ethylhexyl) phthalate | 0.250 mg/L          | 0.148 mg/L            |
| Carbazole                   | 0.367 mg/L          | 0.218 mg/L            |
| n-Decane                    | 5.419 mg/L          | 3.098 mg/L            |
| Fluoranthene                | 0.737 mg/L          | 0.368 mg/L            |
| n-Octadecane                | 1.142 mg/L          | 0.866 mg/L            |

### National Categorical Limits and Permitted Categorical Sample Points

The sanitary sewer discharge limits listed on this permit endorsement are applicable at the permitted categorical sample points listed on page two (2) of this Industrial Waste Permit.

#### A. Definition of Categorical Sample Point:

1. A categorical sample point is where the discharge from the categorical (regulated) processes can be sampled prior to dilution with any non-categorical discharge.

#### B. Permitted Sample Points:

1. All permitted sample points are listed on page two (2) of this permit. Any sample point with the word "EPA" next to the words "DISCHARGE LIMIT(S)" is a categorical sample point. If the words "EPA" and "LOCAL" appear, compliance will be determined by using the lowest discharge limit.



**ENDORSEMENT P7-A****AUTHORIZED POLLUTANTS AND CITY DISCHARGE LIMITS**

| <u>Authorized Pollutant</u>  | <u>Grab Sample Limit</u>   |
|------------------------------|--|
| pH .....                     | pH value for a grab sample:<br>Shall not be less than ..... 5<br>Shall not be greater than.....8 |
| Temperature .....            | 113.0 Fahrenheit (F)   |
| Oil and Grease (Total).....  | 400 mg/L   |
| Floating Oil and Grease..... | Not Allowed  |

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| <u>Heavy Metals</u> | <u>Grab Sample Limit</u> | <u>Composite Sample Limit</u> |
|---------------------|--------------------------|-------------------------------|
| Arsenic.....        | 3.0 mg/L                 | 2.0 mg/L                      |
| Cadmium.....        | 0.4 mg/L                 | 0.2 mg/L                      |
| Chromium.....       | 3.0 mg/L                 | 1.0 mg/L                      |
| Copper.....         | 3.0 mg/L                 | 2.0 mg/L                      |
| Lead.....           | 1.5 mg/L                 | 1.0 mg/L                      |
| Nickel.....         | 3.0 mg/L                 | 2.0 mg/L                      |
| Silver.....         | 2.0 mg/L                 | 1.0 mg/L                      |
| Zinc.....           | 6.0 mg/L                 | 3.0 mg/L                      |

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Biochemical oxygen demand (BOD5) and total suspended solids (TSS) are expected pollutants at the permitted facility.

**ENDORSEMENT S****SIU COMPLIANCE EVALUATION**

In accordance with 40 CFR Part 403.3(v), the permittee has been identified as a Significant Industrial User (SIU) of the City's sanitary sewer system (see page 1 of permit).

Part of determining the compliance status of a SIU is performing an evaluation on the SIU's sample data to determine the compliance status with the permitted effluent limits (chronic limits) and the Technical Review Criteria (TRC) limits.

The Technical Review Criteria Limits are 40% higher than the listed discharge limit for oil and grease, and 20% higher for all other listed discharge limits except pH.

An evaluation of your firm's compliance with the permitted discharge limits is performed quarterly using six month rolling quarters as follows:

|                              |                         |         |                            |
|------------------------------|-------------------------|---------|----------------------------|
| 1 <sup>st</sup> Quarter..... | July 1 <sup>st</sup>    | through | December 31 <sup>st</sup>  |
| 2 <sup>nd</sup> Quarter..... | October 1 <sup>st</sup> | through | March 31 <sup>st</sup>     |
| 3 <sup>rd</sup> Quarter..... | January 1 <sup>st</sup> | through | June 30 <sup>th</sup>      |
| 4 <sup>th</sup> Quarter..... | April 1 <sup>st</sup>   | through | September 30 <sup>th</sup> |

Based on the evaluation of sample data and other criteria (listed in this permit endorsement), per 40 CFR 430.8(f)(2)(viii)(A-H), each Significant Industrial User will be identified as compliant, non-compliant, or significantly noncompliant (SNC).

The City of Houston will also issue a notice of violation to each Significant Industrial User that has been identified as being significantly noncompliant. The notice of violation will inform the SIU of their SNC status, the reason for being SNC, and the SIU will be notified that their company name and the reason for being SNC will be published during the month of November, in a newspaper of general circulation that provides meaningful public notice within the jurisdictions served by the City of Houston, in a list of the Significant Industrial Users or other Industrial Users which, at any time during the previous twelve (12) months, were in Significant Noncompliance with applicable Pretreatment Standards and Requirements.

## **ENDORSEMENT S**

(continued)

The criteria to determine Significant Noncompliance is listed in paragraphs A - H (see below) and shall be applicable to all Significant Industrial Users or any other Industrial User of the sanitary sewer that violates paragraphs (C), (D), or (H):

- A. Chronic violations of wastewater discharge limits, defined here as those in which sixty-six percent (66%) or more of all the measurements taken for the same pollutant parameter taken during a six- (6-) month period exceed (by any magnitude) a numeric Pretreatment Standard or Requirement.
- B. Technical Review Criteria (TRC) violations, defined here as those in which thirty-three percent (33%) or more of wastewater measurements taken for each pollutant parameter during a six- (6-) month period equals or exceeds the product of the numeric Pretreatment Standard or Requirement multiplied by the applicable criteria (1.4 for BOD, TSS, fats, oils and grease, and 1.2 for all other pollutants except pH);
- C. Any other violation of a Pretreatment Standard or Requirement that [the Superintendent] determines has caused, alone or in combination with other discharges, Interference or Pass Through, including endangering the health of POTW personnel or the general public.
- D. Any discharge of a pollutant that has caused imminent endangerment to the public or to the environment, or has resulted in City of Houston's exercise of its emergency authority to halt or prevent such a discharge;
- E. Failure to meet, within ninety (90) days of the scheduled date, a compliance schedule milestone contained in an individual wastewater discharge or enforcement order for starting construction, completing construction, or attaining final compliance;
- F. Failure to provide within thirty (30) days after the due date, any required reports, including baseline monitoring reports, reports on compliance with categorical Pretreatment Standard deadlines, periodic self-monitoring reports, and reports on compliance with compliance schedules;
- G. Failure to accurately report noncompliance; or
- H. Any other violation(s), which may include a violation of Best Management Practices, which the City of Houston determines will adversely affect the operation or implementation of the local pretreatment program.

## **Endorsement SM**

### **Self-Monitoring Sampling and Reporting Requirements Certification Requirements for Significant Industrial Users**

In accordance with 40 CFR Part 403.3(v), the permitted industry has been identified on page one of this permit as a Significant Industrial User (SIU) of the City's sanitary sewer system. This permit endorsement provides information concerning the collection of wastewater samples when an SIU is required to perform self-monitoring of their industrial discharge to the City's sanitary sewer, the reporting requirements when an SIU becomes aware of a violation of the discharge limits of this permit and, a certification requirement when submitting analytical laboratory reports of wastewater samples.

#### **Self-monitoring Requirements - the collection of wastewater samples**

The permitted industry is responsible for performing self-monitoring to demonstrate compliance when required by the City of Houston. The permitted industry is not required to perform routine self-monitoring unless there are special self-monitoring sampling requirements specified elsewhere in this permit.

Routine sample collection and testing will be performed by the City of Houston. If the City sample testing detects a permitted discharge limit violation, then a violation notice will be issued. The violation notice may require the permitted industry to perform self-monitoring.

If self-monitoring is required the permitted industry shall follow the sampling instructions that are provided in each notice of violation. At a minimum each notice of violation will specify the following:

1. **The sample collection point**

Wastewater samples are to be collected at the sample point(s) that are specified in each violation notice. Refer to page 2 of this permit for a list of sample points.

2. **The type of sample to be used for self monitoring**

The type of sample that will be required when performing self-monitoring will be specified each time the City of Houston requests self-monitoring in a notice of violation or requires self-monitoring in an Industrial Waste Permit.

A grab sample or a composite sample may be required. Definitions of a grab or composite sample are provided in Section 47-186; Part II of this permit.

Sampling for such pollutants as pH, cyanide, oil and grease, and volatile organic compounds require manual collection of grab samples. All grab samples must be representative of the monitored discharge and are to be collected from actively flowing wastestream. A grab sample or composite sample will be required when sampling for a heavy metal or a semi-volatile organic compound.

Whenever a composite sample is required the permitted industry is hereby authorized to collect a time-proportional composite sample (as opposed to a flow-proportional composite sample) unless a particular notice of violation or permit requirement specifies that flow-proportional composite sampling is required. Each composite sample must be collected during the permitted industry's normal operating hours from a actively flowing wastestream. Sample collection and handling protocols must be done in accordance with 40 CFR Part 136.

## Endorsement SM – Self-Monitoring Sampling and Reporting Requirements Certification Requirements for Significant Industrial Users

(continued)

### 3. Number of samples to be collected and the frequency of sampling

The permitted industry will be required to collect 3 samples on three different days for each instance of non-compliance that is addressed in a notice of violation or other enforcement document. However, the number of samples required may vary depending on the nature of the violation, the magnitude of the violation, the duration of the violation, the frequency of the violation (isolated or recurring), and the (potential) impact of the violation (e.g., interference, pass through, or POTW worker safety).

### 4. Parameters to be tested – identification of pollutants to be monitored

Each notice of violation will identify which parameters are to be tested for when self-monitoring is required. However, any parameter listed with a discharge limit on any endorsement in this permit is subject to being non-compliant and therefore, subject to being identified in a notice of violation that requires self-monitoring to demonstrate compliance. A review of this permit will also identify any parameter that requires special self-monitoring and reporting requirements.

### 5. Analytical test methods required for testing self-monitoring wastewater samples

The only test methods that are approved for the testing of wastewater samples are the analytical methods listed in 40 CFR Part 136 (Guidelines Establishing Test Procedures for the Analysis of Pollutants).

## Self-monitoring Reporting Requirements

### 1. Requirements for laboratory reports and chain of custody forms

The analytical laboratory reports and chain of custody forms that are submitted to the City, in response to any self-monitoring requirement, must contain specific information to be acceptable. Each notice of violation or other enforcement document, will provide a list of the requirements for laboratory reports and chain of custody forms. If it is determined that the required information is not provided on a lab report or chain of custody form, a violation notice may be issued to require the permitted industry to repeat the self-monitoring sampling and analyses.

### 2. Reporting a violation / repeat sampling and reporting

In accordance with 40 CFR 403.12(g) (2):

If sampling performed by the permitted industry indicates a violation, the industry shall notify the Control Authority (City of Houston/Industrial Wastewater Service) within twenty-four (24) hours of becoming aware of the violation. The permitted industry shall also repeat the sampling and analysis and submit the results of the repeat analysis to the City of Houston within thirty (30) days after becoming aware of the violation. Where the City of Houston has performed sampling and analysis in lieu of the permitted industry the City must perform the repeat sampling and analysis unless it notifies the permitted industry of the violation and requires the industry to perform the repeat analysis.

Resampling is not required if:

- a. The City of Houston performs sampling at the permitted industry's facility at least once a month, or
- b. The City of Houston performs sampling at the permitted industry between the time when the initial sampling was conducted and the time when the permitted industry or the City receives the results of this sampling.

Endorsement SM – Self-Monitoring Sampling and Reporting Requirements  
Certification Requirements for Significant Industrial Users

(continued)

**Certification Requirement**

A certification will be required with the analytical laboratory reports and chain of custody forms for any self-monitoring that is performed. A separate certification shall be submitted by the permitted industry in response to each notice of violation or other self-monitoring sampling event.

A certification form will be provided to the permittee with each notice of violation. The certification will have the date of the notice of violation to indicate which certification to complete and submit with the self-monitoring laboratory reports. If a permitted industry performs voluntary self-monitoring and submits the results of the self-monitoring to the City, a certification statement is required. The industry should use the exact certification that appears in this permit endorsement (see below).

All certifications shall be signed by an authorized representative of the permitted industry.  
40 CFR Part 403.12(l) *Signatory requirements for Industrial User reports* provides the criteria to determine who can qualify as an authorized representative. **If there is a change in the name and or title of an authorized representative the Industrial Wastewater Service shall be notified in writing of such a change.**

The following certification shall be included with all analytical laboratory reports for self-monitoring:

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

**ENDORSEMENT SR****Semiannual Reporting Requirements****Periodic Report on Continued Compliance (Semiannual Report)**

In Accordance with 40 CFR Part 403.12 (The General Pretreatment Regulations for Existing and New Sources of Pollution) which is incorporated in this permit, the permittee is required to submit a Periodic Report on Continued Compliance (Semiannual Report) for each of the following six (6) month periods:

| <b><u>SIX MONTH REPORTING PERIOD</u></b> | <b><u>REPORT DUE</u></b>                                |
|--|---|
| <b>January - June</b>                    | <b>Report due on or before July, 15<sup>th</sup></b>    |
| <b>July - December</b>                   | <b>Report due on or before January, 15<sup>th</sup></b> |

The City's Industrial Wastewater Service will provide Semiannual Reporting forms to the permittee during each May and November. The permittee is required to submit all Semiannual Reporting forms on or before the report due date specified on the Semiannual Report form.

As part of the Semiannual Reporting requirement the permittee is also required to submit all analytical laboratory reports that have not yet been provided to the Industrial Wastewater Service for any wastewater sample collected at a permitted sample point during each of the six (6) month reporting periods.

The permittee is not required to perform sampling for the Semiannual Report. However, the City reserves the right to request the permittee to perform wastewater sampling for the Semiannual Report or for any other reporting or compliance monitoring requirement. Detailed sampling instructions will be provided to the permittee if the City requests wastewater sampling and analysis.

**ENDORSEMENT TTO – Total Toxic Organics Limit**

This endorsement establishes a total toxic organics (TTO) discharge limit. The TTO limit is applicable at each sample point on page two of this permit that has City (local) discharge limits. This endorsement is issued under the authority to establish permit provisions as provided by Part II of this permit - Sections 47-189(a)(2), (a)(16), and 47-189 (b).

**TTO Limit ..... 50 mg/L**

**TTO is defined as the summation of all quantifiable values greater than 0.1 mg/L for any compound listed below:**

**BASE / NEUTRALS / ACIDS - Test Method EPA 625**

1,2-Benzanthracene (Benzo (a) Anthracene)  
 1,2-Dichlorobenzene  
 1,2-Diphenylhydrazine  
 1,2,4-Trichlorobenzene  
 1,3-Dichlorobenzene  
 1,4-Dichlorobenzene  
 1,12-Benzoperylene (Benzo (ghi) Perylene)  
 2-Chloronaphthalene  
 2-Chlorophenol  
 2-Methylnaphthalene  
 2-Methylphenol  
 2-Nitroaniline  
 2-Nitrophenol  
 2,4-Dichlorophenol  
 2,4-Dimethylphenol  
 2,4-Dinitrophenol  
 2,4-Dinitrotoluene  
 2,4,5-Trichlorophenol  
 2,4,6-Trichlorophenol  
 2,6-Dinitrotoluene  
 3-Nitroaniline  
 3,3-Dichlorobenzidine  
 3,4-Benzofluoranthene (Benzo(b)fluoranthene)  
 3,4-Benzopyrene (Benzo (a) Pyrene)  
 4-Bromophenyl Phenyl Ether  
 4-Chloroaniline  
 4-Chlorophenyl Phenyl Ether  
 4-Nitroaniline  
 4-Nitrophenol  
 4,6-Dinitro-O-Cresol  
 11,12-Benzofluoranthene (Benzo (k) Fluoranthene)  
 Acenaphthylene  
 Acenaphthene  
 Anthracene  
 Benzidine  
 Benzyl Alcohol  
 Benzoic Acid  
 BIS (2-Chloroethoxy) Methane  
 BIS (2-Chloroethyl) Ether  
 BIS (2-Chloroisopropyl) Ether  
 BIS (2-Ethylhexyl) Phthalate  
 Butyl Benzyl Phthalate  
 Chrysene  
 Di-N-Butyl Phthalate  
 Di-N-Octyl Phthalate  
 Dibenzo (A,H) Anthracene (1,2,5,6-Dibenzanthracene)  
 Dibenzofuran  
 Diethyl Phthalate  
 Dimethyl Phthalate  
 Fluoranthene  
 Fluorene  
 Hexachlorobenzene  
 Hexachlorobutadiene  
 Hexachlorocyclopentadiene

Hexachloroethane  
 Indeno (1,2,3-CD) Pyrene (2,3-0-Phenylene-pyrene)  
 Isophorone  
 N-Nitrosodi-n-propylamine  
 N-Nitrosodimethylamine  
 N-Nitrosodiphenylamine  
 Naphthalene  
 Nitrobenzene  
 p-Cresol  
 Parachlorometa cresol (4-Chloro-3-Methylphenol)  
 Pentachlorophenol  
 Phenanthrene  
 Phenol (Acid extractable)  
 Pyrene

**VOLATILES - Test Method EPA 624**

1,1-Dichloroethane  
 1,1-Dichloroethylene  
 1,1,1-Trichloroethane  
 1,1,2-Trichloroethane  
 1,1,2,2-Tetrachloroethane  
 1,2-Dichloroethane  
 1,2-Dichloroethene (Total) (1,2-Trans-Dichloroethylene)  
 1,2-Dichloropropane  
 1,3-Dichloropropylene (Cis-1,3-Dichloropropene)  
 Trans-1,3-Dichloropropene  
 2-Butanone  
 2-Chloroethyl Vinyl Ether (Mixed)  
 2-Hexanone  
 4-Methyl-2-Pentanone  
 Acetone  
 Benzene  
 Bromoform (Tribromomethane)  
 Carbon Disulfide  
 Carbon Tetrachloride (Tetrachloromethane)  
 Chlorobenzene  
 Chlorodibromomethane (Dibromochloromethane)  
 Chloroethane  
 Chloroform (Trichloromethane)  
 Dichlorobromomethane (Bromodichloromethane)  
 Ethylbenzene  
 Methyl Bromide (Bromomethane)  
 Methyl Chloride (Chloromethane)  
 Methylene Chloride  
 Styrene  
 Tetrachloroethylene  
 Toluene  
 Trichloroethylene  
 Vinyl Acetate  
 Vinyl Chloride (Chloroethylene)  
 Xylenes (Total)



**ENDORSEMENT U****Establishment of Sewer User Charge Based on Strength of Waste**

In accordance with Chapter 47, Article III of the City Code of Ordinances, the following information has been used in establishing your firm's wastewater billing rate:

- (1) The wastewater discharged from the permitted facility has been analyzed and found to contain an average biochemical oxygen demand (BOD) concentration of **5680 mg/L** and an average total suspended solids (TSS) concentration of **247 mg/L**.
- (2) Based on the average concentrations for BOD and TSS the water/sewer billing accounts for each City water meter, sewer discharge meter or private well meter that is being used for sewer billing (that have been identified as industrial accounts) shall now have a sewer user billing rate of **\$14.5006** per 1,000 gallons.

NOTE: The minimum base rate (for sewer billing) for industrial accounts and for sewer discharge meter accounts; is currently \$4.84 per 1,000 gallons.

**PART II**

**CITY OF HOUSTON  
INDUSTRIAL WASTE ORDINANCE**