SELF-REPORTING SYSTEMS

GENERAL INSTRUCTIONS FOR MONTHLY EFFLUENT REPORTS OF THE SELF-REPORTING SYSTEM

LP-3
TEXAS DEPARTMENT OF WATER RESOURCES
REVISED NOVEMBER 1983

SELF-REPORTING SYSTEMS

GENERAL INSTRUCTIONS FOR MONTHLY EFFLUENT REPORTS OF THE SELF-REPORTING SYSTEM

for

Disposal of Domestic and Industrial Waste Effluent
Under Provisions of Chapter 26 of the Texas Waste Code

LP-3

Texas Department of Water Resources

Revised November 1983

ABSTRACT

Pursuant to Chapter 26 of the Texas Water Code, the Texas Water Development has promulgated Texas Administrative Code Sections 329.1 - 329.12, Monitoring and Reporting System. These rules pertain to the reporting requirements of any entity holding (1) an active waste discharge permit issued under provisions of Chapter 26 of the Texas Water Code or (2) any permit issued separately or jointly by the Texas Department of Water Resources.

This publication has been prepared by the Enforcement and Field Operations Division to provide assistance to those entities who are required to comply with the requirements of TAC Sections 329.1 - 329.12. Contained within the publication is a restatement of the regulations and an example of the Monthly Effluent Report (Form TDWR-0123) with appropriate completion instructions.

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I. ENTITIES REQUIRED TO REPORT

Any entity holding (1) an active waste discharge permit issued under provisions of Chapter 26 of the Texas Water Code or (2) any permit issued separately or jointly by the Texas Department of Water Resources is required to regularly submit to the Texas Department of Water Resources reports as described herein.

II. EXCLUSIONS FROM SELF-REPORTING

Only those permits found by the Executive Director not to affect directly or indirectly the quality of the water of the State shall be excluded from the reporting procedure.

Two types of exemptions currently exist for Texas Department of Water Resources permittees:

A. No-Discharge Permits

Permittees whose permits specify that no discharge to a public water course be made and who actually make no discharge will be exempted from submitting the monthly effluent report unless required by the Executive Director or so noted in their permit.

Should a discharge be made when the permit specifies that no discharge is allowed, the permittee shall, within 72 hours, notify the Department of Water Resources in writing of each unauthorized diversion or bypass in accordance with the procedures specified for reporting noncompliance in Section VIII.D. The permittee shall monitor that discharge for the parameters set forth in the permit and report the results of that monitoring to the Executive Director.

B. Unconstructed Facilities

Any entity holding an active Texas Department of Water Resources waste discharge permit whose facility has not yet been constructed or completed may receive an exemption from submission of the Monthly Effluent Report (Form TDWR-0123) until start-up of that facility or outfall. The entity must notify the Texas Department of Water Resources in writing 45 days prior to start up so that the self-reporting documents may be issued.

III. SUBMISSION OF REPORTS

A Monthly Effluent Report compiled on Texas Department of Water Resources Form TDWR-0123 must be submitted each month for each discharge which is described in the wastewater discharge permit. The report for a particular month must be submitted to the Texas Department of Water Resources, Attention: Shipping Control and Effluent Reports Unit, P. O. Box 13087,

Capitol Station, Austin, Texas 78711, so that the report will be received not later then the 25th day of the following month.

IV. PARAMETERS TO BE MONITORED

Each permittee will be required to monitor on a regular basis each parameter which is included in its permit and which is also included on its Monthly Effluent Report (TDWR-0123) form. Each permittee may also be required to monitor any other such parameters as the Executive Director may reasonably deem necessary to adequately monitor the quality of any discharge. Should the analysis for any additional parameters not already mentioned be required of the permittee, the permittee will be notified in writing of such requirements prior to the initiation of the requirement.

V. REQUIRED SAMPLING LOCATION AND FREQUENCY OF ANALYSIS OR MEASUREMENT

The necessary samples shall be taken from the effluent at the sampling point as described in the governing permit. Should the permit not specify a sampling point, samples shall be collected immediately following the last treatment unit. These procedures shall be followed unless an alternate sampling and measuring point is agreed upon in advance in writing by the Executive Director or his designee. Samples shall be taken and measurements shall be made at the frequencies specified in the permit for each parameter. Should any permit not specify a sampling frequency or should the sampling frequency be stamped "NPDES Requirement Only", the discharger shall follow the frequencies set forth in Tables 1 and 2 of this document basing the frequency of analysis on the currently applicable permitted average flow. Table 1 shall be applicable to treated domestic sewage effluent while Table 2 shall be applicable to all other wastewater effluents. Should a parameter included in a permit not be listed in the applicable table, the permittee will be instructed in writing by the Texas Department of Water Resources as to what frequency of analysis shall be followed.

VI. SAMPLING AND LABORATORY TESTING METHODS

1. All sample collection, preservation, and holding time shall be conducted according to recommendations found in (a) the latest edition of Standard Methods for the Examination of Water and Wastewater, prepared and published jointly by the American Public Health Association, the American Waterworks Association, and the Water Pollution Control Federation, or (b) the U. S. Environmental Protection Agency, Methods for Chemical Analysis of Water and Wastes, 1979, or (c) the U. S. Environmental Protection Agency, Biological Field and Laboratory Methods for Measuring the Quality of Surface Waters and Effluents, 1973.

2. The physical, chemical, and microbiological analyses of ambient water quality shall be conducted by the use of analytical methods as specified in guidelines published in the Federal Register, December 1, 1976, pursuant to Section 304(g) of the Federal Water Pollution Control Act, or revised guidelines as they may be published in the Federal Register.

3. Flow measurements, equipment, installation, and procedures shall conform to those prescribed in the Water Measurement Manual, U. S. Department of the Interior, Bureau of Reclamation, Washington, D.C., or methods that are equivalent as approved by the Texas Department of Water Resources.

4. Laboratories shall routinely use and document intra-laboratory quality control practices as recommended in the U. S. Environmental Protection Agency Manual, Handbook for Analytical Quality Control in Water and Wastewater Laboratories. These practices will include the use of internal quality control check samples.

5. The sampling and laboratory facilities, data, and records of quality control are subject to periodic inspection by Texas Department of Water Resources personnel.

Should the procedures specified above not be suitable to any particular situation, nonstandard sampling and testing techniques may be employed in accordance with the procedures outlined in Section VII.

VII. ALTERNATE SAMPLING AND LABORATORY TESTING METHODS

Should the permittee feel that the standard sampling and testing techniques specified in Section VI are not suited to its particular situation, the permittee shall request in writing the use of an alternate sampling and testing procedure. Applications for alternate sampling and testing procedures will be made to the Department's Executive Director. Items that should be included with an application for alternate sampling and testing procedures are:

1. Name and address of the firm making the discharge.
2. Texas Department of Water Resources Permit Number.
3. List of parameters for which alternate procedures are being requested.
4. Copy of method of alternate procedures.
5. The justification for the alternate sampling and testing procedures.

Additional information such as the comparability of data may also be requested. In no instance shall the permittee use a procedure not included in the reference cited in Section VI until written approval has been received to do so from the Executive Director or his designee.

VIII. COMPLETION OF THE MONTHLY EFFLUENT REPORT (FORM TDWR-0123)

A. General Information

The Monthly Effluent Report is a self-reporting form for only the specific plant or outfall printed on each form. The form shows all the parameters that are to be reported as required by your permit. Extreme care should be exercised to insure that this report is used for only the plant or outfall described and for the year and month printed on the top of the form. If monitoring is performed more frequently than required, all results must be used in determining daily minimums, maximums, and averages.

An example of a properly completed self-reporting form is shown at the end of this publication.

Effluent test results must be reported in the following manner:

1. "Effluent Condition" column.--Enter test results in the white spaces under VALUE for the parameters using the units specified. If the UNITS specified MGD (million gallons per day), then a measured as flow of 100,000 gallons per day should be reported as .100.

2. "NO EX" column.--Enter in the white spaces, the exact number of times during the month that the given permitted limit was exceeded. If an effluent value reported as daily average is found to exceed the permitted daily average, enter a "1" in the box regardless of the number of single readings above the permitted limit.

3. "Frequency of Analysis" and "Sample Type" columns.--These columns reflect your permit requirements for the sampling of each parameter. The frequency of analysis and sample type are preprinted for each parameter along with the respective two-digit code. If your sampling technique corresponds to the pre-printed description of frequency and sample type, simply transfer the respective two-digit codes to the white spaces directly above. If your sampling techniques do not correspond to the described frequency and sample type, enter a written description of your frequency of analysis and sample type in the blue space above.

4. If no discharge is made during the reporting month enter a "0" under value for parameter (Discharge Days/Month). Leave the remainder of the form blank, except for reporting requirements under number 5 below.

5. Each form must contain two signatures and dates. In addition, municipal sewage treatment plant operators should write in their Certificate of Competency number as issued by the Texas Department of Health, Grade (A,B,C,D,), and expiration date (YYMMDD)

in the white space provided under the appropriate parameters. Send the "Texas Department of Water Resources Copy" to the Texas Department of Water Resources, P. O. Box 13087, Capitol Station, Austin, Texas 78711, Attention: Shipping Control and Effluent Reports Unit. Keep the carbon copy for your files.

The following are definitions of terms and abbreviations regularly used on the report:

DLY. AVG.	Daily Average will be the arithmetric average of all test or measurement results obtained during the reporting period.
DLY. MAX.	Daily Maximum will be the largest of all the test or measurement results obtained during the reporting period.
IND. GRAB	Individual Grab will be the largest test or measurement result obtained during the reporting period from a grab sample.
DLY. MIN.	Daily Minimum will be the smallest test or measurement result obtained during the reporting period.
GRAB	A sample collected in less than 15 minutes.
GRAB PKLOAD	Grab sample collected at Peak Loading.
3 PRT COMP	3 part composite.
6 PRT COMP	6 part composite.
12 PRT COMP	12 part composite.
Parameter	A physical property whose values determine the characteristics or behavior of something (e.g., temperature, BOD, and pH).

B. Reports for Effluent Discharged to a Public Watercourse

The permittee shall monitor all discharges made in accordance with the guidelines in the permit or as specified elsewhere in this document. The results of this monitoring program shall be regularly summarized on the Monthly Effluent Report (TDWR-0123) and submitted to the Texas Department of Water Resources as specified in Section III of this document. This summary shall include the frequency of sample collection and analysis for each parameter, the type sample collected (grab, composite, etc.), and the results of the analyses in terms of concentrations and/or loadings. Additionally, the number of times during the month that a sample result exceeded the permitted value shall be included in the report.

C. Reporting of Quantities or Loading

Several parameters in the permit are limited in terms of pounds per day. Although all these parameters are generally measured initially in milligrams per liter, conversion to pounds per day can be achieved by use of the following formula. Always be sure to use the flow measurement taken at the time of sample collection.

$$\frac{\text{Concentration (mg/l)} \times \text{Flow (gallons per day)} \times 8.34}{1{,}000{,}000} =$$

Quantity or loading in pounds per day.

Example: For a BOD concentration of a sample 40 mg/l, and a flow at time of sample collection of 600,000 gallons per day,

$$\text{Pounds per day} = \frac{40 \times 600{,}000 \times 8.34}{1{,}000{,}000} =$$

200 pounds per day.

A second method to determine the loading generated is by use of the nomograph shown in Figure 2. To use the nomograph, locate the parameter concentration found in the sample in the right-hand column, and the flow in gallons per day measured at the time the sample was collected in the left-hand column. Connect these two points with a line, and the point at which this line crosses the center column will be the quantity and/or loading caused by the discharge. The above example is shown by the line on the chart.

D. Reporting Noncompliance with Effluent Limitations

If for any reason the permittee is responsible for or contributes to an unpermitted discharge, or the permittee does not comply with or will be unable to comply with any effluent limitation specified in this permit, the permittee shall provide the Executive Director with the following information in writing within five days of becoming aware of such condition:

1. A description of the noncomplying discharge including its impact upon the receiving waters;

2. Cause of noncompliance;

3. Anticipated time the condition of noncompliance is expected to continue, or if such condition has been corrected, the duration of the period of noncompliance;

4. Steps taken by the permittee to reduce and eliminate the non-complying discharge; and

5. Steps to be taken by the permittee to prevent recurrence of the condition of noncompliance.

The permittee shall take all reasonable steps to minimize any adverse impact to State waters resulting from noncompliance with any effluent limitation specified in the permit.

IX. REQUIRED SIGNATURES

Each effluent report shall contain two signatures. One signature must be that of the superintendent of the wastewater treatment facility or other appointed person associated with the operation of the treatment facility. The other signature should be as follows:

A. If submitted by a public entity, a state or federal agency, or a corporation, the report should be signed by a principal executive officer, ranking elected official, commanding officer, or other employee duly authorized by the principal executive officer.

B. If submitted by a partnership, the report should be signed by a general partner.

C. If submitted by a sole proprietor, the report should be signed by the proprietor.

X. REPORTING ON PERMITS WRITTEN ON A DIFFERENTIAL BASIS

Where the permit requirement for a particular parameter is written in terms of a differential increase between the intake and the discharge points, the values reported shall be in terms of the increase or decrease of the parameter value found in the discharge as compared to the intake. In other words, the differential values rather than the quality of the final effluent shall be entered on the report form.

XI. DOCUMENTATION OF EFFLUENT REPORTS

The monthly effluent report consists of summarized data concerning the quality and quantity of the final effluent and contains no information regarding the records and laboratory control tests which should be performed in the interest of treatment plant process control. For each measurement or sample taken pursuant to the requirements of this report, the permittee shall record the following information:

A. The exact place, date, and time of sampling, collection, or measurement;

B. The dates the analyses were performed;

C. The person(s) who collected the samples or made the measurements and the person(s) who performed the analyses;

D. The results of all required analyses or measurements; and

E. The results of adequate verifications of analytical precision and/or accuracy verified by means of the recommended guidelines in the U. S. Environmental Protection Agency Manual, Handbook for Analytical Quality Control in Water and Wastewater Laboratories, to be determined the day the analyses are performed.

The permittee shall be subject to routine inspection of records for Items A through E of the Section by Texas Department of Water Resources personnel.

All records and information resulting from the required monitoring activities, including all records concerning measurements and analyses performed, and concerning calibration and maintenance of flow measurement and instrumentation, shall be retained for a minimum of three (3) years, or for a longer period if requested by the Executive Director of the Texas Department of Water Resources or his designee.

XII. NONSTANDARD REPORTS

It is impractical to devise a Self-Reporting System satisfactory to all concerned even though the reporting system considers the problem of various sizes of waste treatment plants, the difference in treatment processes, and the differences in the permit for each entity. Accordingly, if, in the opinion of the permittee, the schedule of analysis, flow measurements, and report set forth herein is unsuitable for the permittee's installation, the permittee should submit to the Executive Director a letter proposing such changes, amendments or other reports as are deemed suitable for the permittee's use fully enumerating the reason or reasons the standard report is considered unsuitable. However, in no instance should the permittee embark upon a nonstandard reporting procedure until the permittee has received written approval from the Texas Department of Water Resources to do so.

XIII. IMPLEMENTATION PERIOD FOR REPORTING

All entities who are required to report shall establish their self-monitoring and reporting program in accordance with this document in such a manner as to submit fully complete reports for the first full calendar month after the permittee receives the printed effluent report forms described in this document. When a permit change occurs, whether the change be the result of a permit amendment or an automatic change written into the permit, the permittee shall prepare the report for the month in which the change occurs on the basis of the effluent limitations and monitoring requirements in effect at the beginning of that month. The monitoring program should then be modified to reflect the requirement of the amended permit for the first full calendar month after the permit change takes effect.

XIV. SECURING ASSISTANCE

If at any time during the preparation of your effluent reports you should need assistance in interpreting these instructions, you may secure that assistance by contacting the Shipping Control and Effluent Reports Unit in the Department's Central Office in Austin or the District Office nearest you. For your convenience, the address, telephone number, and supervisor of each District Office is listed in Table 1, and a map of the State showing the various districts is given in Figure 1.

Please note that the District Offices are not necessarily manned during every working day since all of the personnel assigned to some of these offices travel. Please feel free to call the Central Office or District Offices at any time to secure assistance in interpreting the instructions and requirements of the Self-Reporting System. In order to avoid misunderstanding, all requests to alter or change the self-reporting requirements in any manner should be submitted to the Central Office in writing, and only written permission to alter the requirements of the Self-Reporting System will be considered as official and valid.

Table 1.—Texas Department of Water Resources Field Offices

DISTRICT 1
3918 Canyon Drive
Amarillo, Texas 79109
806/353-9251 (TEX-AN 8-847-4264)
David Mark Gates, Supervisor

DISTRICT 2
2321-A 50th Street
Lubbock, Texas 79412
806/799-1164 (TEX-AN 8-862-0047)
Raymond L. Mittel, Supervisor

DISTRICT 3
3221 Franklin
Waco, Texas 76710
817/753-3688 (TEX-AN 8-820-1462)
Joe Morgan, Supervisor

DISTRICT 4
203 James Collins Blvd.
Duncanville, Texas 75116
214/298-6171 (TEX-AN 8-831-5650)
Charles D. Gill, Supervisor

DISTRICT 5
2807 Highway 42 North
Kilgore, Texas 75662
214/984-0636 (TEX-AN 8-214-984-0636)
Billy Boggs, Supervisor

DISTRICT 6
P.O. Box 337
1201 Childers Road
Orange, Texas 77630
409/883-2973 (TEX-AN 8-409-883-2973)
Harry Boudreaux, Supervisor

DISTRICT 7
4301 Center Street
Deer Park, Texas 77536
713/479-5981 (TEX-AN 8-850-1250)
Merton J. Coloton, Supervisor

TDWR—EPA LAB
6608 Hornwood Drive
Houston, Texas 77074
713/954-6771 (TEX-AN 8-713-954-6771)

DISTRICT 8
321 Center Street, Suite 1103
San Antonio, Texas 78202
512/226-3297 or 226-3299 (TEX-AN 8-820-1308)
Vernon R. Francis, Supervisor

DISTRICT 9
224 West Beauregard, Suite 102
San Angelo, Texas 76903
915/655-9479 (TEX-AN 8-915-655-9479)
Kenneth W. Krueger, Supervisor

DISTRICT 10
204-A West 5th Street
Odessa, Texas 79761
915/332-5122 (TEX-AN 8-844-9236)
William F. Lockey, Supervisor

DISTRICT 11
813 E. Pike Blvd.
Weslaco, Texas 78596
512/968-3165 (TEX-AN 8-828-6209)
John Sturgis, Supervisor

DISTRICT 12
Klee Square Building, Suite 515
505 South Water Street
Corpus Christi, Texas 78401
512/882-2548 (TEX-AN 8-827-6302)
Henry P. Kutchinski, Supervisor

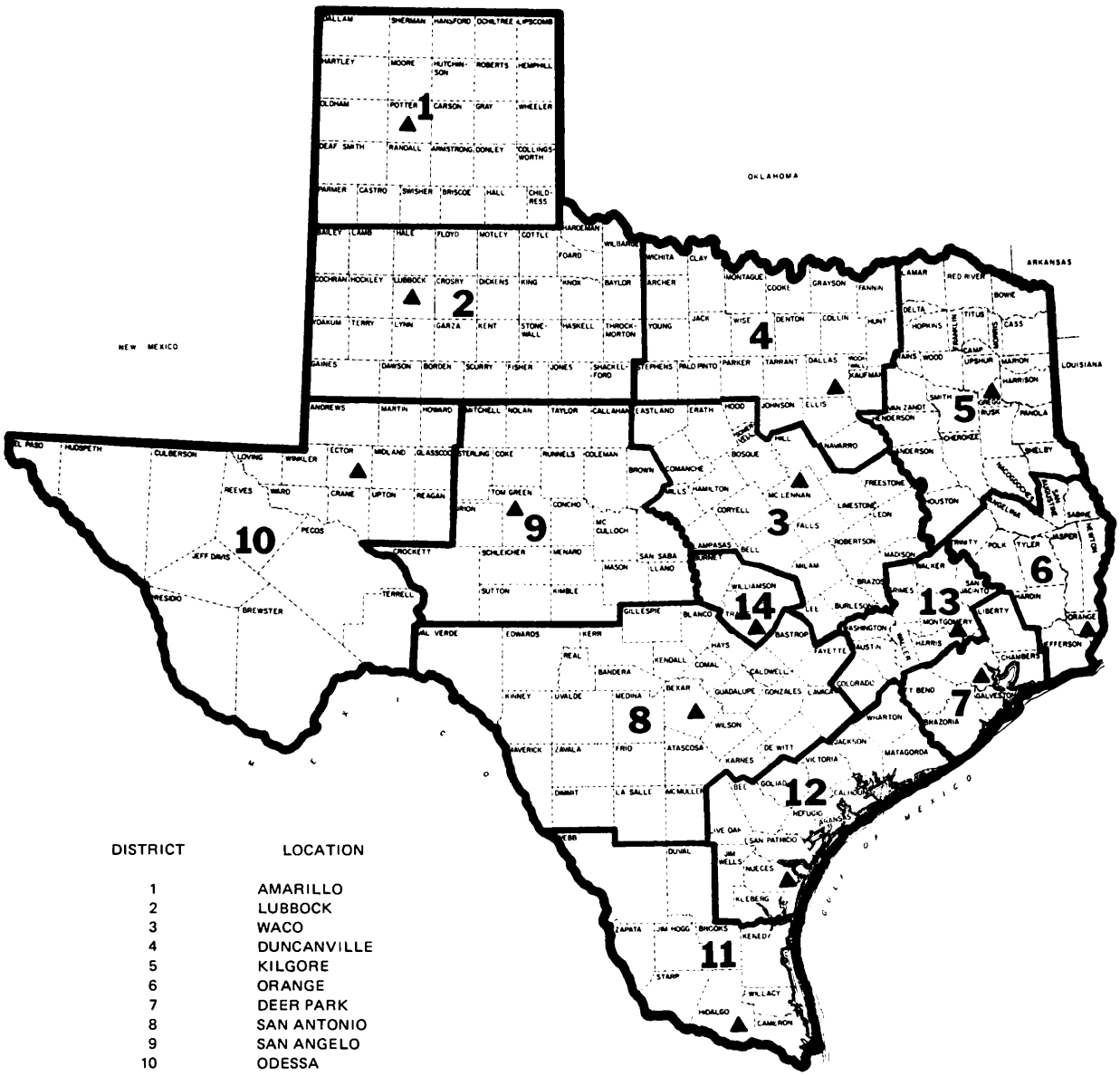
DISTRICT 13
25132 Oakhurst Drive, Suite 230
Spring, Texas 77373
713/367-9870 (TEX-AN 8-850-1225)
Gerald E. Hord, Supervisor

DISTRICT 14
1700 North Congress Avenue
P.O. Box 13087
Austin, Texas 78711
512/475-2786 (TEX-AN 8-822-2786)
W. John Young, Supervisor

RIO GRANDE WATERMASTER
811 E. Pike Blvd.
Weslaco, Texas 78596
512/968-5481 (TEX-AN 8-828-6208)
Daniel E. Havelka, Watermaster

Eagle Pass Field Office
P.O. Box 1185
1152 Ferry Street #C
Eagle Pass, Texas 78852
512/773-5059 (TEX-AN 8-512-773-5059)
James R. Stubblefield, Deputy Watermaster

Figure 1.—Location of Texas Department of Water Resources Field Offices



DISTRICT	LOCATION
1	AMARILLO
2	LUBBOCK
3	WACO
4	DUNCANVILLE
5	KILGORE
6	ORANGE
7	DEER PARK
8	SAN ANTONIO
9	SAN ANGELO
10	ODESSA
11	WESLACO
12	CORPUS CHRISTI
13	SPRING
14	AUSTIN
WATERMASTER	WESLACO
	EAGLE PASS

Table 2.—Self-Monitoring Schedule for Treated Domestic Sewage Effluent

FREQUENCY OF MEASUREMENT						
Design Capacity MGD	Flow	BOD_5	Total Suspended Solids	Chlorine Residual	pH	Collecting of Samples and Taking Measurements
0 to less than 0.05	One instantaneous measurement each working day but not less than five measurements per week (b) (c)	One each month	One each month	One each working day but not less than five measurements per week (c)	One each month	The laboratory tests shall be made on a grab sample collected at peak loading periods, and flow measurements shall be taken concurrently with such grab samples. (d)
0.05 to less than 0.10	One instananeous measurement each working day but not less than five measurements per week (b) (c)	One each month	One each month	One each working day but not less than five measurements per week (c)	One each month	The laboratory tests shall be made on a grab sample collected at peak loading periods, and flow measurements shall be taken concurrently with such grab samples. (d)
0.10 to less than 0.50	One instantaneous measurement each working day but not less than five measurements per week (b) (c)	Two each month	Two each month	One each working day but not less than five measurements per week (c)	Two each month	The laboratory tests shall be made on a grab sample collected at peak loading periods, and flow measurements shall be taken concurrently with such grab samples. (d)
0.50 to less than 1.00	The daily flow measured by a totalizing meter	One each week	One each week	One each day of the week	Two each month	The laboratory test excepting the chlorine residual test shall be made on a composite sample made up of three portions collected no closer together than 2 hours and with the first sample collected no earlier than 10:00 a.m.
1.00 to less than 5.00	The daily flow measured by a totalizing meter	Two each week	Two each week	One each day of the week	One each week	The laboratory test excepting the chlorine residual test shall be made on a composite sample made up of six portions collected no closer together than 2 hours and with the first sample collected no earlier than 10:00 a.m.
5.00 to less than 10.00	The daily flow measured by a totalizing meter	One each weekday (a)	One each weekday (a)	One each day of the week	One each week-day (a)	The laboratory test excepting the chlorine residual test shall be made on 24-hr. composite samples collected no closer together than 2 hours in 12 individual portions.
10.00 or greater	The daily flow measured by totalizing meter	One each day	One each day	One each day of the week	One each day	The laboratory test excepting the chlorine residual test shall be made on 24-hour composite samples collected no closer together than 2 hours in 12 individual portions.

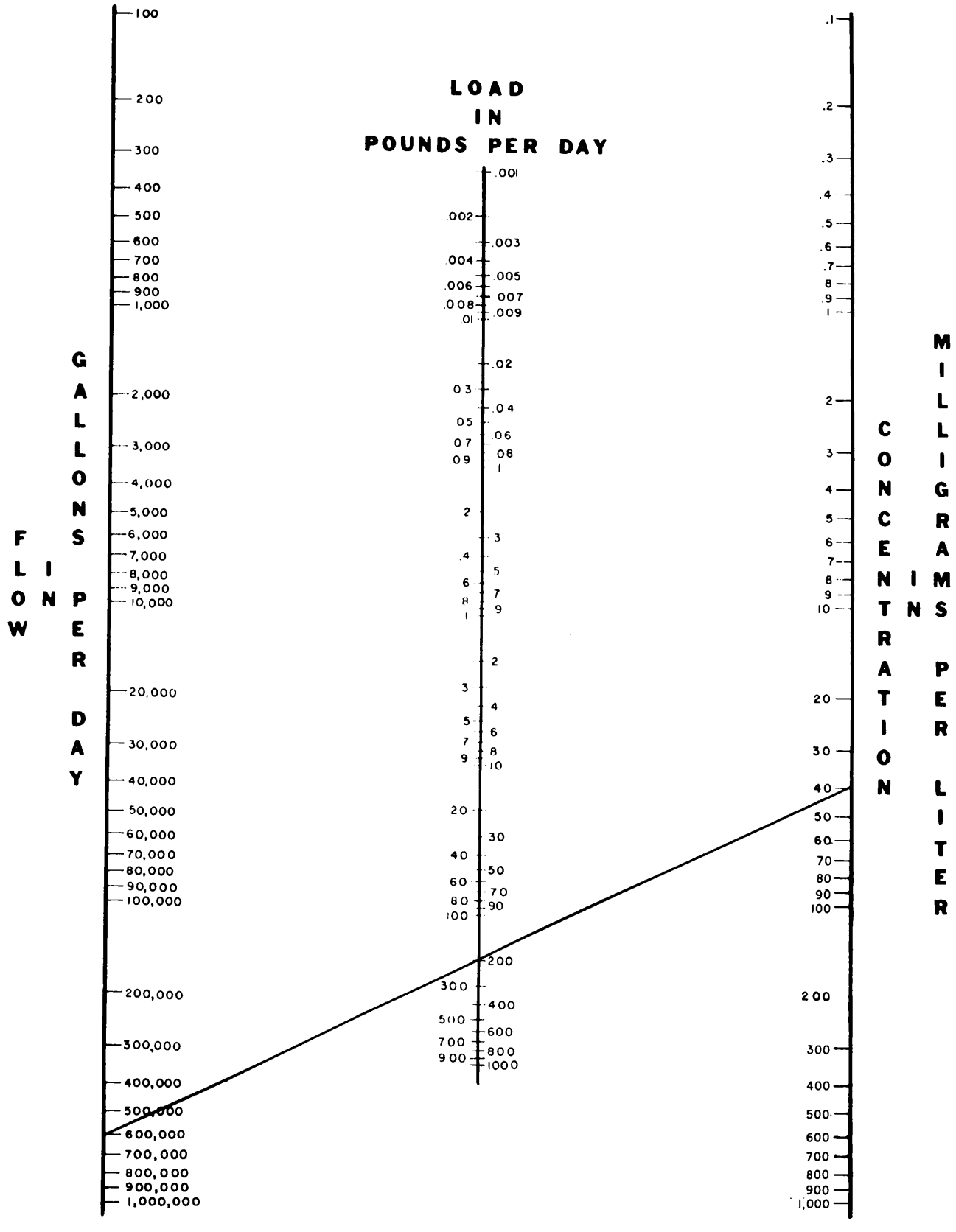
(a) Weekday - Monday thru Friday
(b) Where a totalizing meter is provided, the actual volume of water which has been processed each day should be reported and noted as such.
(c) Working Day - A day when the plant is visited for routine work.
(d) Peak loading period - That time during the calendar day when the maximum flow rate is experienced within the facility.
NOTE: The sampling frequency should not be anything less than that routinely practiced at the facility if that frequency is greater than the minimum shown above. See 31 TAC §329.7(d)

Table 3.—Self-Monitoring Schedule for Industrial Wastewater Effluent

Frequency of Measurement Volume of MGD					
Parameter	0 to less than 0.05	0.05 to less than 0.50	0.50 to less than 2.00	2.00 to less than 10.00	10.00 or greater
Flow	One instantaneous measurement per operating day except on sample days when 3 instantaneous measurements made concurrently with the collection of sample portions are required.	One instantaneous measurement per operating shift - on sample days concurrent with the collection of a sample portion.	One instantaneous measurement per operating shift - on sample days concurrent with the collection of a sample portion or the reading from a totalizing flow meter.	Six instantaneous measurements per day spaced at equal intervals during the operating period or the reading from a totalizing flow meter.	Instantaneous measurements made each operating hour or the reading from a totalizing flow meter.
pH (a)	1 per day	1 per day	1 per day	1 per day	1 per day
Temperature (b)	1 per day	3 per day	3 per day	6 per day	12 per day
BOD	1 per week	2 each week	2 each week	3 each week	1 per day
COD	1 per week	2 each week	2 each week	3 each week	1 per day
TOC	1 per week	2 each week	2 each week	3 each week	1 per day
Oil & Grease (a)	1 per week	2 each week	2 each week	3 each week	1 per day
Ammonia Nitrogen	1 per week	2 each week	2 each week	3 each week	1 per day
Arsenic	1 per week	2 each week	2 each week	3 each week	1 per day
Barium	1 per week	2 each week	2 each week	3 each week	1 per day
Boron	1 per week	2 each week	2 each week	3 each week	1 per day
Cadium	1 per week	2 each week	2 each week	3 each week	1 per day
Chromium	1 per week	2 each week	2 each week	3 each week	1 per day
Copper	1 per week	2 each week	2 each week	3 each week	1 per day
Lead	1 per week	2 each week	2 each week	3 each week	1 per day
Manganese	1 per week	2 each week	2 each week	3 each week	1 per day
Mercury	1 per week	2 each week	2 each week	3 each week	1 per day
Nickel	1 per week	2 each week	2 each week	3 each week	1 per day
Selenium	1 per week	2 each week	2 each week	3 each week	1 per day
Silver	1 per week	2 each week	2 each week	3 each week	1 per day
Zinc	1 per week	2 each week	2 each week	3 each week	1 per day
TSS	1 per week	2 each week	2 each week	3 each week	1 per day
TDS	1 per week	2 each week	2 each week	3 each week	1 per day
Chloride	1 per week	2 each week	2 each week	3 each week	1 per day
Sulphate	1 per week	2 each week	2 each week	3 each week	1 per day
Nitrate Nitrogen	1 per week	2 each week	2 each week	3 each week	1 per day
Sulfide (a)	1 per week	2 each week	2 each week	3 each week	1 per day
Phenol (a)	1 per week	2 each week	2 each week	3 each week	1 per day
Collection of samples	Samples shall be composite samples made up of three portions, sized proportional to flow, collected no closer together than one hour and over a span of time not exceeding 24 hours.	Samples shall be composite samples made up of three portions, sized proportional to flow, one portion being collected during each operating shift or otherwise suitably distributed throughout the operating day.	Samples shall be composite samples made up of three portions, sized proportional to flow, one portion being collected during each operating shift or otherwise suitably distributed throughout the operating day.	Samples shall be composite samples made up of six portions, sized proportional to flow, collected concurrently with the instantaneous flow measurements made during a 24 hour time span.	Samples shall be 24 hour composite samples collected in 12 or more individual portions, sized proportional to flow, equally spaced throughout the operating day.

(a) The required laboratory tests shall be made on grab samples.
(b) The temperature shall be measured in situ on the water at the permit sampling point.

Figure 2.—Nomograph for Determining Loading From Effluent Concentration and Flow Rate



TEXAS DEPARTMENT OF WATER RESOURCES

P. O. BOX 13087 • CAPITOL STATION • AUSTIN, TEXAS 78711

MONTHLY EFFLUENT REPORT

Smith Steel Company
P. O. Box 4589
Denworth, Texas 79806

40A	WQ00030010	00102	80	02
SYS	PERMIT NUMBER		YEAR	MO.

THIS REPORT TO BE USED FOR
SEE BACK FOR INSTRUCTIONS AND DEFINITIONS

TDWR COPY

PARAMETER	EFFLUENT CONDITION	VALUE	UNITS	NO. EX.	FREQUENCY OF ANALYSIS		SAMPLE TYPE	
000035342 DISCHARGE DAYS/MTH	REPORTED	31	DAYS	0				
	PERMITTED				01	NA	01	NA
000108050 TEMP.H20 DLY.MAX.	REPORTED	87.0	DGE.FAHR	0	08		15	
	PERMITTED	95.00			08	1/DAY	15	IN SITU
003402024 COD DLY. AVG.	REPORTED	121.6	LB/DAY	0	13		04	
	PERMITTED	160.00			13	2/WEEK	04	24-HR COMP
003402050 COD DLY.MAX.	REPORTED	367.2	LB/DAY	1	13		04	
	PERMITTED	320.00			13	2/WEEK	04	24-HR COMP
004006080 PH MAXIMUM	REPORTED	9.3	STD UNIT	1	08		02	
	PERMITTED	9.00			08	1/DAY	02	GRAB
004006081 PH MINIMUM	REPORTED	7.0	STD UNIT		08		02	
	PERMITTED	6.0			08	1/DAY	02	GRAB
005302024 TSS DLY.AVG.	REPORTED	43.8	LB/DAY	0	13		04	
	PERMITTED	95.0			13	2/WEEK	04	24-HR COMP
005302050 TSS DLY.MAX.	REPORTED	99.4	LB/DAY	0	13		04	
	PERMITTED	190.0			13	2/WEEK	04	24-HR COMP
010342024 CHROMIUM DLY.AVG.	REPORTED	0.3	LB/DAY	0	13		04	
	PERMITTED	1.6000			13	2/WEEK	04	24-HR COMP

I CERTIFY THAT I AM FAMILIAR WITH THE INFORMATION CONTAINED IN THIS REPORT AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF SUCH INFORMATION IS TRUE AND COMPLETE AND ACCURATE.

NAME	SIGNATURE	DATE (YEAR MO. DAY)
Joe Smith	Joe Smith	80 02 13
PLANT OPERATOR	PLANT OPERATOR	
John Doe	John Doe	80 02 13
EXECUTIVE OFFICER	EXECUTIVE OFFICER	

TELEPHONE NO.	
512	4755647
AREA CODE	NUMBER

TDWR-0123