Technical Package Cover Page

This file contains the following documents:

1. Summary of application (in plain language)
   - English
   - Alternative Language (Spanish)
2. First notice (NORI-Notice of Receipt of Application and Intent to Obtain a Permit)
   - English
   - Alternative Language (Spanish)
3. Second notice (NAPD-Notice of Preliminary Decision)
   - English
   - Alternative Language (Spanish)
4. Application materials *
5. Draft permit *
6. Technical summary or fact sheet *

Texas Commission on Environmental Quality

NOTICE OF APPLICATION AND PRELIMINARY DECISION FOR TPDES PERMIT FOR MUNICIPAL WASTEWATER

MINOR AMENDMENT

PERMIT NO. WQ0011041002

APPLICATION AND PRELIMINARY DECISION. City of Kyle, 100 West Center Street, Kyle, Texas 78640, has applied to the Texas Commission on Environmental Quality (TCEQ) for a minor amendment to Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0011041002 to add an Interim II phase with an annual average flow of 6,000,000 gallons per day (gpd). The existing permit authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 12,000,000 gpd. TCEQ received this application on June 26, 2025.

The facility is located at 941 New Bridge Drive, in the City of Kyle, Hays County, Texas 78640. The treated effluent is discharged directly to Plum Creek in Segment No. 1810 of the Guadalupe River Basin. The designated uses for Segment No. 1810 are primary contact recreation, aquifer protection, and high aquatic life use. This link to an electronic map of the site or facility's general location is provided as a public courtesy and is not part of the application or notice. For the exact location, refer to the application.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.835277,29.967777&level=18

The TCEQ Executive Director has completed the technical review of the application and prepared a draft permit. The draft permit, if approved, would establish the conditions under which the facility must operate. The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The application, including any updates, and associated notices are available electronically at the following webpage:
https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications.

PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting about this application. The purpose of a public meeting is to provide the opportunity to submit written or oral comment or to ask questions about the application. Generally, the TCEQ will hold a public meeting if the Executive Director determines that there is a significant degree of public interest in the application or if requested by a local legislator. A public meeting is not a contested case hearing.

All written public comments and requests for a public meeting must be submitted to the Office of the Chief Clerk, MC 105, Texas Commission on Environmental Quality, P.O. Box 13087, Austin, TX 78711-3087 or electronically at www.tceq.texas.gov/goto/comment **within 30 days of the date of publication of this notice in the Texas Register.**

After the deadline for public comments, the Executive Director will consider the comments and prepare a response to all relevant and material, or significant public comments. **The response to comments will be mailed to everyone who submitted public comments or who requested to be on a mailing list for this application.**

MAILING LIST. If you submit public comments, you will be added to the mailing list for this specific application to receive future public notices mailed by the Office of the Chief Clerk. In addition, you may request to be placed on: (1) the permanent mailing list for a specific applicant name and permit number; and/or (2) the mailing list for a specific county. If you wish to be placed on the permanent and/or the county mailing list, clearly specify which list(s) and send your request to TCEQ Office of the Chief Clerk at the address below.

INFORMATION AVAILABLE ONLINE. For details about the status of the application, visit the Commissioners' Integrated Database at www.tceq.texas.gov/goto/cid. Search the database using the permit number for this application, which is provided at the top of this notice.

AGENCY CONTACTS AND INFORMATION. Public comments and requests must be submitted either electronically at www.tceq.texas.gov/goto/comment, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC 105, P.O. Box 13087, Austin, Texas 78711-3087. Any personal information you submit to the TCEQ will become part of the agency's record; this includes email addresses. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at www.tceq.texas.gov/goto/pep. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from City of Kyle at the address stated above or by calling Mr. Robert Defreitas, Division Manager of Treatment Operations, City of Kyle, at 512-214-4564.

Issuance Date: July 22, 2025

TPDES PERMIT NO.
WQ0011041002
[For TCEQ office use only - EPA I.D. No. TX0119466]

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
P.O. Box 13087
Austin, Texas 78711-3087

This minor amendment supersedes and replaces TPDES Permit No. WQ0011041002 issued on February 5, 2025, and is reissued pursuant to 30 TAC § 305.62 (c)(2).

PERMIT TO DISCHARGE WASTES
under provisions of
Section 402 of the Clean Water Act
and Chapter 26 of the Texas Water Code

City of Kyle

whose mailing address is

100 West Center Street
Kyle, Texas 78640

is authorized to treat and discharge wastes from the City of Kyle Wastewater Treatment Plant, SIC Code 4952

located at 941 New Bridge Drive in Hays County, Texas 78640

directly to Plum Creek in Segment No. 1810 of the Guadalupe River Basin

only according to effluent limitations, monitoring requirements, and other conditions set forth in this permit, as well as the rules of the Texas Commission on Environmental Quality (TCEQ), the laws of the State of Texas, and other orders of the TCEQ. The issuance of this permit does not grant to the permittee the right to use private or public property for conveyance of wastewater along the discharge route described in this permit. This includes, but is not limited to, property belonging to any individual, partnership, corporation, or other entity. Neither does this permit authorize any invasion of personal rights nor any violation of federal, state, or local laws or regulations. It is the responsibility of the permittee to acquire property rights as may be necessary to use the discharge route.

This permit shall expire at midnight, **February 5, 2028**.

ISSUED DATE:

For the Commission

INTERIM I EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS Outfall Number 001

1. During the period beginning upon the date of issuance and lasting through the completion of expansion to the 6.0 million gallons per day (MGD) facility, the permittee is authorized to discharge subject to the following effluent limitations:

   The annual average flow of effluent shall not exceed 4.5 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 12,500 gallons per minute.

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg	7-day Avg	Daily Max	Single Grab	Report Daily Avg. & Daily Max.	
	mg/l (lbs/day)	mg/l	mg/l	mg/l	Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	10 (375)	15	25	35	Two/week	Composite
Total Suspended Solids	15 (563)	25	40	60	Two/week	Composite
Ammonia Nitrogen	2 (75)	5	10	15	Two/week	Composite
E. coli, colony-forming units or most probable number per 100 ml	126	N/A	399	N/A	Daily	Grab

2. The permittee shall utilize an Ultraviolet Light (UV) system for disinfection purposes. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

3. The pH shall not be less than 6.5 standard units nor greater than 9.0 standard units and shall be monitored once per week by grab sample.

4. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

5. Effluent monitoring samples shall be taken at the following location(s): Following the final treatment unit.

6. The effluent shall contain a minimum dissolved oxygen of 5.0 mg/l and shall be monitored twice per week by grab sample.

7. The annual average flow and maximum 2-hour peak flow shall be reported monthly.

INTERIM II EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS Outfall Number 001

1. During the period beginning upon the date of completion of expansion to the 6.0 million gallons per day (MGD) facility and lasting through the date of completion of expansion to the 9.0 MGD facility, the permittee is authorized to discharge subject to the following effluent limitations:

   The annual average flow of effluent shall not exceed 6.0 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 16,667 gallons per minute.

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg	7-day Avg	Daily Max	Single Grab	Report Daily Avg. & Daily Max.	
	mg/l (lbs/day)	mg/l	mg/l	mg/l	Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	7 (350)	15	22	32	Five/week	Composite
Total Suspended Solids	12 (601)	20	40	60	Five/week	Composite
Ammonia Nitrogen	2 (100)	5	10	15	Five/week	Composite
Total Phosphorus	0.5 (25)	1	2	3	Five/week	Composite
E. coli, colony-forming units or most probable number per 100 ml	126	N/A	399	N/A	Daily	Grab

2. The permittee shall utilize an Ultraviolet Light (UV) system for disinfection purposes. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.
3. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored five times per week by grab sample.
4. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.
5. Effluent monitoring samples shall be taken at the following location(s): Following the final treatment unit.
6. The effluent shall contain a minimum dissolved oxygen of 5.0 mg/l and shall be monitored twice per week by grab sample.
7. The annual average flow and maximum 2-hour peak flow shall be reported monthly.

INTERIM III EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS Outfall Number 001

1. During the period beginning upon the date of completion of expansion to the 9.0 million gallons per day (MGD) facility and lasting through the date of completion of expansion to the 12.0 MGD facility, the permittee is authorized to discharge subject to the following effluent limitations:

   The annual average flow of effluent shall not exceed 9.0 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 25,000 gallons per minute.

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg	7-day Avg	Daily Max	Single Grab	Report Daily Avg. & Daily Max.	
	mg/l (lbs/day)	mg/l	mg/l	mg/l	Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	7 (525)	12	22	32	Five/week	Composite
Total Suspended Solids	12 (901)	20	40	60	Five/week	Composite
Ammonia Nitrogen	2 (150)	5	10	15	Five/week	Composite
Total Phosphorus	0.5 (38)	1	2	3	Five/week	Composite
E. coli, colony-forming units or most probable number per 100 ml	126	N/A	399	N/A	Daily	Grab

2. The permittee shall utilize an Ultraviolet Light (UV) system for disinfection purposes. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.
3. The pH shall not be less than 6.5 standard units nor greater than 9.0 standard units and shall be monitored five times per week by grab sample.
4. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.
5. Effluent monitoring samples shall be taken at the following location(s): Following the final treatment unit.
6. The effluent shall contain a minimum dissolved oxygen of 5.0 mg/l and shall be monitored once per day by grab sample.
7. The annual average flow and maximum 2-hour peak flow shall be reported monthly.

FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS Outfall Number 001

1. During the period beginning upon the completion of expansion to the 12.0 million gallons per day (MGD) facility and lasting through the date of expiration, the permittee is authorized to discharge subject to the following effluent limitations:

   The annual average flow of effluent shall not exceed 12.0 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 33,333 gallons per minute.

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg mg/l (lbs/day)	7-day Avg mg/l	Daily Max mg/l	Single Grab mg/l	Report Daily Avg. & Daily Max. Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	5 (500)	10	20	30	One/day	Composite
Total Suspended Solids	5 (500)	10	20	30	One/day	Composite
Ammonia Nitrogen	2 (200)	5	10	15	One/day	Composite
Total Phosphorus	0.5 (50)	1	2	3	One/day	Composite
E. coli, colony-forming units or most probable number per 100 ml	126	N/A	399	N/A	Daily	Grab

2. The permittee shall utilize an Ultraviolet Light (UV) system for disinfection purposes. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.
3. The pH shall not be less than 6.5 standard units nor greater than 9.0 standard units and shall be monitored once per day by grab sample.
4. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.
5. Effluent monitoring samples shall be taken at the following location(s): Following the final treatment unit.
6. The effluent shall contain a minimum dissolved oxygen of 5.0 mg/l and shall be monitored once per day by grab sample.
7. The annual average flow and maximum 2-hour peak flow shall be reported monthly.

DEFINITIONS AND STANDARD PERMIT CONDITIONS

As required by Title 30 Texas Administrative Code (TAC) Chapter 305, certain regulations appear as standard conditions in waste discharge permits. 30 TAC § 305.121 - 305.129 (relating to Permit Characteristics and Conditions) as promulgated under the Texas Water Code (TWC) §§ 5.103 and 5.105, and the Texas Health and Safety Code (THSC) §§ 361.017 and 361.024(a), establish the characteristics and standards for waste discharge permits, including sewage sludge, and those sections of 40 Code of Federal Regulations (CFR) Part 122 adopted by reference by the Commission. The following text includes these conditions and incorporates them into this permit. All definitions in TWC § 26.001 and 30 TAC Chapter 305 shall apply to this permit and are incorporated by reference. Some specific definitions of words or phrases used in this permit are as follows:

1. Flow Measurements

    a. Annual average flow - the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months. The annual average flow determination shall consist of daily flow volume determinations made by a totalizing meter, charted on a chart recorder and limited to major domestic wastewater discharge facilities with one million gallons per day or greater permitted flow.

    b. Daily average flow - the arithmetic average of all determinations of the daily flow within a period of one calendar month. The daily average flow determination shall consist of determinations made on at least four separate days. If instantaneous measurements are used to determine the daily flow, the determination shall be the arithmetic average of all instantaneous measurements taken during that month. Daily average flow determination for intermittent discharges shall consist of a minimum of three flow determinations on days of discharge.

    c. Daily maximum flow - the highest total flow for any 24-hour period in a calendar month.

    d. Instantaneous flow - the measured flow during the minimum time required to interpret the flow measuring device.

    e. 2-hour peak flow (domestic wastewater treatment plants) - the maximum flow sustained for a two-hour period during the period of daily discharge. The average of multiple measurements of instantaneous maximum flow within a two-hour period may be used to calculate the 2-hour peak flow.

    f. Maximum 2-hour peak flow (domestic wastewater treatment plants) - the highest 2-hour peak flow for any 24-hour period in a calendar month.

2. Concentration Measurements

    a. Daily average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar month, consisting of at least four separate representative measurements.

        i. For domestic wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values in the previous four consecutive month period consisting of at least four measurements shall be utilized as the daily average concentration.

ii. For all other wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values taken during the month shall be utilized as the daily average concentration.

b. 7-day average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar week, Sunday through Saturday.

c. Daily maximum concentration - the maximum concentration measured on a single day, by the sample type specified in the permit, within a period of one calendar month.

d. Daily discharge - the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in terms of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the sampling day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the average measurement of the pollutant over the sampling day.

The daily discharge determination of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the daily discharge determination of concentration shall be the arithmetic average (weighted by flow value) of all samples collected during that day.

e. Bacteria concentration (*E. coli* or Enterococci) - Colony Forming Units (CFU) or Most Probable Number (MPN) of bacteria per 100 milliliters effluent. The daily average bacteria concentration is a geometric mean of the values for the effluent samples collected in a calendar month. The geometric mean shall be determined by calculating the nth root of the product of all measurements made in a calendar month, where n equals the number of measurements made; or, computed as the antilogarithm of the arithmetic mean of the logarithms of all measurements made in a calendar month. For any measurement of bacteria equaling zero, a substituted value of one shall be made for input into either computation method. If specified, the 7-day average for bacteria is the geometric mean of the values for all effluent samples collected during a calendar week.

f. Daily average loading (lbs/day) - the arithmetic average of all daily discharge loading calculations during a period of one calendar month. These calculations must be made for each day of the month that a parameter is analyzed. The daily discharge, in terms of mass (lbs/day), is calculated as (Flow, MGD x Concentration, mg/l x 8.34).

g. Daily maximum loading (lbs/day) - the highest daily discharge, in terms of mass (lbs/day), within a period of one calendar month.

3. Sample Type

a. Composite sample - For domestic wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (a). For industrial wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (b).

b. Grab sample - an individual sample collected in less than 15 minutes.

4. Treatment Facility (facility) - wastewater facilities used in the conveyance, storage, treatment, recycling, reclamation and/or disposal of domestic sewage, industrial wastes, agricultural wastes, recreational wastes, or other wastes including sludge handling or disposal facilities under the jurisdiction of the Commission.

5. The term "sewage sludge" is defined as solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in 30 TAC Chapter 312. This includes the solids that have not been classified as hazardous waste separated from wastewater by unit processes.

6. The term "biosolids" is defined as sewage sludge that has been tested or processed to meet Class A, Class AB, or Class B pathogen standards in 30 TAC Chapter 312 for beneficial use.

7. Bypass - the intentional diversion of a waste stream from any portion of a treatment facility.

MONITORING AND REPORTING REQUIREMENTS

1. Self-Reporting

Monitoring results shall be provided at the intervals specified in the permit. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall conduct effluent sampling and reporting in accordance with 30 TAC §§ 319.4 - 319.12. Unless otherwise specified, effluent monitoring data shall be submitted each month, to the Enforcement Division (MC 224), by the 20th day of the following month for each discharge which is described by this permit whether or not a discharge is made for that month. Monitoring results must be submitted online using the NetDMR reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. Monitoring results must be signed and certified as required by Monitoring and Reporting Requirements No. 10.

As provided by state law, the permittee is subject to administrative, civil and criminal penalties, as applicable, for negligently or knowingly violating the Clean Water Act (CWA); TWC §§ 26, 27, and 28; and THSC § 361, including but not limited to knowingly making any false statement, representation, or certification on any report, record, or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance, or falsifying, tampering with or knowingly rendering inaccurate any monitoring device or method required by this permit or violating any other requirement imposed by state or federal regulations.

2. Test Procedures

a. Unless otherwise specified in this permit, test procedures for the analysis of pollutants shall comply with procedures specified in 30 TAC §§ 319.11 - 319.12. Measurements, tests, and calculations shall be accurately accomplished in a representative manner.

b. All laboratory tests submitted to demonstrate compliance with this permit must meet the requirements of 30 TAC § 25, Environmental Testing Laboratory Accreditation and Certification.

3. Records of Results

a. Monitoring samples and measurements shall be taken at times and in a manner so as to be representative of the monitored activity.

b. Except for records of monitoring information required by this permit related to the permittee's sewage sludge or biosolids use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR Part 503), monitoring and reporting records, including strip charts and records of calibration and maintenance, copies of all records required by this permit, records of all data used to complete the application for this permit, and the certification required by 40 CFR § 264.73(b)(9) shall be retained at the facility site, or shall be readily available for review by a TCEQ representative for a period of three years from the date of the record or sample, measurement, report, application or certification. This period shall be extended at the request of the Executive Director.

c. Records of monitoring activities shall include the following:

i. date, time and place of sample or measurement;

ii. identity of individual who collected the sample or made the measurement.

iii. date and time of analysis;

iv. identity of the individual and laboratory who performed the analysis;

v. the technique or method of analysis; and

vi. the results of the analysis or measurement and quality assurance/quality control records.

The period during which records are required to be kept shall be automatically extended to the date of the final disposition of any administrative or judicial enforcement action that may be instituted against the permittee.

4. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit using approved analytical methods as specified above, all results of such monitoring shall be included in the calculation and reporting of the values submitted on the approved self-report form. Increased frequency of sampling shall be indicated on the self-report form.

5. Calibration of Instruments

All automatic flow measuring or recording devices and all totalizing meters for measuring flows shall be accurately calibrated by a trained person at plant start-up and as often thereafter as necessary to ensure accuracy, but not less often than annually unless authorized by the Executive Director for a longer period. Such person shall verify in writing that the device is operating properly and giving accurate results. Copies of the verification shall be retained at the facility site and/or shall be readily available for review by a TCEQ representative for a period of three years.

6. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date to the Regional Office and the Enforcement

Division (MC 224).

7. Noncompliance Notification

   a. In accordance with 30 TAC § 305.125(9) any noncompliance which may endanger human health or safety, or the environment shall be reported by the permittee to the TCEQ. Except as allowed by 30 TAC § 305.132, report of such information shall be provided orally or by facsimile transmission (FAX) to the Regional Office within 24 hours of becoming aware of the noncompliance. A written submission of such information shall also be provided by the permittee to the Regional Office and the Enforcement Division (MC 224) within five working days of becoming aware of the noncompliance. For Publicly Owned Treatment Works (POTWs), effective December 21, 2025, the permittee must submit the written report for unauthorized discharges and unanticipated bypasses that exceed any effluent limit in the permit using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. The written submission shall contain a description of the noncompliance and its cause; the potential danger to human health or safety, or the environment; the period of noncompliance, including exact dates and times; if the noncompliance has not been corrected, the time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effects.

   b. The following violations shall be reported under Monitoring and Reporting Requirement 7.a.:

      i. Unauthorized discharges as defined in Permit Condition 2(g).

      ii. Any unanticipated bypass that exceeds any effluent limitation in the permit.

      iii. Violation of a permitted maximum daily discharge limitation for pollutants listed specifically in the Other Requirements section of an Industrial TPDES permit.

   c. In addition to the above, any effluent violation which deviates from the permitted effluent limitation by more than 40% shall be reported by the permittee in writing to the Regional Office and the Enforcement Division (MC 224) within 5 working days of becoming aware of the noncompliance.

   d. Any noncompliance other than that specified in this section, or any required information not submitted or submitted incorrectly, shall be reported to the Enforcement Division (MC 224) as promptly as possible. For effluent limitation violations, noncompliances shall be reported on the approved self-report form.

8. In accordance with the procedures described in 30 TAC §§ 35.301 - 35.303 (relating to Water Quality Emergency and Temporary Orders) if the permittee knows in advance of the need for a bypass, it shall submit prior notice by applying for such authorization.

9. Changes in Discharges of Toxic Substances

   All existing manufacturing, commercial, mining, and silvicultural permittees shall notify the Regional Office, orally or by facsimile transmission within 24 hours, and both the Regional Office and the Enforcement Division (MC 224) in writing within five (5) working days, after becoming aware of or having reason to believe:

a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant listed at 40 CFR Part 122, Appendix D, Tables II and III (excluding Total Phenols) which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

   i. One hundred micrograms per liter (100 μg/L);

   ii. Two hundred micrograms per liter (200 μg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 μg/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;

   iii. Five (5) times the maximum concentration value reported for that pollutant in the permit application; or

   iv. The level established by the TCEQ.

b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

   i. Five hundred micrograms per liter (500 μg/L);

   ii. One milligram per liter (1 mg/L) for antimony;

   iii. Ten (10) times the maximum concentration value reported for that pollutant in the permit application; or

   iv. The level established by the TCEQ.

10. Signatories to Reports

    All reports and other information requested by the Executive Director shall be signed by the person and in the manner required by 30 TAC § 305.128 (relating to Signatories to Reports).

11. All POTWs must provide adequate notice to the Executive Director of the following:

    a. Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to CWA § 301 or § 306 if it were directly discharging those pollutants;

    b. Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit; and

    c. For the purpose of this paragraph, adequate notice shall include information on:

       i. The quality and quantity of effluent introduced into the POTW; and

       ii. Any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

PERMIT CONDITIONS

1. General

    a. When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in an application or in any report to the Executive Director, it shall promptly submit such facts or information.

    b. This permit is granted on the basis of the information supplied and representations made by the permittee during action on an application, and relying upon the accuracy and completeness of that information and those representations. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked, in whole or in part, in accordance with 30 TAC Chapter 305, Subchapter D, during its term for good cause including, but not limited to, the following:

        i. Violation of any terms or conditions of this permit;

        ii. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or

        iii. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

    c. The permittee shall furnish to the Executive Director, upon request and within a reasonable time, any information to determine whether cause exists for amending, revoking, suspending or terminating the permit. The permittee shall also furnish to the Executive Director, upon request, copies of records required to be kept by the permit.

2. Compliance

    a. Acceptance of the permit by the person to whom it is issued constitutes acknowledgment and agreement that such person will comply with all the terms and conditions embodied in the permit, and the rules and other orders of the Commission.

    b. The permittee has a duty to comply with all conditions of the permit. Failure to comply with any permit condition constitutes a violation of the permit and the Texas Water Code or the Texas Health and Safety Code, and is grounds for enforcement action, for permit amendment, revocation, or suspension, or for denial of a permit renewal application or an application for a permit for another facility.

    c. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.

    d. The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal or other permit violation that has a reasonable likelihood of adversely affecting human health or the environment.

    e. Authorization from the Commission is required before beginning any change in the permitted facility or activity that may result in noncompliance with any permit requirements.

    f. A permit may be amended, suspended and reissued, or revoked for cause in accordance

with 30 TAC §§ 305.62 and 305.66 and TWC§ 7.302. The filing of a request by the permittee for a permit amendment, suspension and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

g. There shall be no unauthorized discharge of wastewater or any other waste. For the purpose of this permit, an unauthorized discharge is considered to be any discharge of wastewater into or adjacent to water in the state at any location not permitted as an outfall or otherwise defined in the Other Requirements section of this permit.

h. In accordance with 30 TAC § 305.535(a), the permittee may allow any bypass to occur from a TPDES permitted facility which does not cause permitted effluent limitations to be exceeded or an unauthorized discharge to occur, but only if the bypass is also for essential maintenance to assure efficient operation.

i. The permittee is subject to administrative, civil, and criminal penalties, as applicable, under TWC §§ 7.051 - 7.075 (relating to Administrative Penalties), 7.101 - 7.111 (relating to Civil Penalties), and 7.141 - 7.202 (relating to Criminal Offenses and Penalties) for violations including, but not limited to, negligently or knowingly violating the federal CWA §§ 301, 302, 306, 307, 308, 318, or 405, or any condition or limitation implementing any sections in a permit issued under the CWA § 402, or any requirement imposed in a pretreatment program approved under the CWA §§ 402 (a)(3) or 402 (b)(8).

3. Inspections and Entry

a. Inspection and entry shall be allowed as prescribed in the TWC Chapters 26, 27, and 28, and THSC § 361.

b. The members of the Commission and employees and agents of the Commission are entitled to enter any public or private property at any reasonable time for the purpose of inspecting and investigating conditions relating to the quality of water in the state or the compliance with any rule, regulation, permit or other order of the Commission. Members, employees, or agents of the Commission and Commission contractors are entitled to enter public or private property at any reasonable time to investigate or monitor or, if the responsible party is not responsive or there is an immediate danger to public health or the environment, to remove or remediate a condition related to the quality of water in the state. Members, employees, Commission contractors, or agents acting under this authority who enter private property shall observe the establishment's rules and regulations concerning safety, internal security, and fire protection, and if the property has management in residence, shall notify management or the person then in charge of his presence and shall exhibit proper credentials. If any member, employee, Commission contractor, or agent is refused the right to enter in or on public or private property under this authority, the Executive Director may invoke the remedies authorized in TWC § 7.002. The statement above, that Commission entry shall occur in accordance with an establishment's rules and regulations concerning safety, internal security, and fire protection, is not grounds for denial or restriction of entry to any part of the facility, but merely describes the Commission's duty to observe appropriate rules and regulations during an inspection.

4. Permit Amendment and/or Renewal

a. The permittee shall give notice to the Executive Director as soon as possible of any planned physical alterations or additions to the permitted facility if such alterations or additions would require a permit amendment or result in a violation of permit requirements. Notice shall also be required under this paragraph when:

   i. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in accordance with 30 TAC § 305.534 (relating to New Sources and New Dischargers); or

   ii. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are subject neither to effluent limitations in the permit, nor to notification requirements in Monitoring and Reporting Requirements No. 9; or

   iii. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

b. Prior to any facility modifications, additions, or expansions that will increase the plant capacity beyond the permitted flow, the permittee must apply for and obtain proper authorization from the Commission before commencing construction.

c. The permittee must apply for an amendment or renewal at least 180 days prior to expiration of the existing permit in order to continue a permitted activity after the expiration date of the permit. If an application is submitted prior to the expiration date of the permit, the existing permit shall remain in effect until the application is approved, denied, or returned. If the application is returned or denied, authorization to continue such activity shall terminate upon the effective date of the action. If an application is not submitted prior to the expiration date of the permit, the permit shall expire and authorization to continue such activity shall terminate.

d. Prior to accepting or generating wastes which are not described in the permit application or which would result in a significant change in the quantity or quality of the existing discharge, the permittee must report the proposed changes to the Commission. The permittee must apply for a permit amendment reflecting any necessary changes in permit conditions, including effluent limitations for pollutants not identified and limited by this permit.

e. In accordance with the TWC § 26.029(b), after a public hearing, notice of which shall be given to the permittee, the Commission may require the permittee, from time to time, for good cause, in accordance with applicable laws, to conform to new or additional conditions.

f. If any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under CWA § 307(a) for a toxic pollutant which is present in the discharge and that standard or prohibition is more stringent than any limitation on the pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition. The permittee shall comply with effluent standards or prohibitions established under CWA § 307(a) for toxic pollutants within the time provided in the

regulations that established those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

5. Permit Transfer

   a. Prior to any transfer of this permit, Commission approval must be obtained. The Commission shall be notified in writing of any change in control or ownership of facilities authorized by this permit. Such notification should be sent to the Applications Review and Processing Team (MC 148) of the Water Quality Division.

   b. A permit may be transferred only according to the provisions of 30 TAC § 305.64 (relating to Transfer of Permits) and 30 TAC § 50.133 (relating to Executive Director Action on Application or WQMP update).

6. Relationship to Hazardous Waste Activities

   This permit does not authorize any activity of hazardous waste storage, processing, or disposal that requires a permit or other authorization pursuant to the Texas Health and Safety Code.

7. Relationship to Water Rights

   Disposal of treated effluent by any means other than discharge directly to water in the state must be specifically authorized in this permit and may require a permit pursuant to TWC Chapter 11.

8. Property Rights

   A permit does not convey any property rights of any sort, or any exclusive privilege.

9. Permit Enforceability

   The conditions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

10. Relationship to Permit Application

    The application pursuant to which the permit has been issued is incorporated herein; provided, however, that in the event of a conflict between the provisions of this permit and the application, the provisions of the permit shall control.

11. Notice of Bankruptcy

    a. Each permittee shall notify the Executive Director, in writing, immediately following the filing of a voluntary or involuntary petition for bankruptcy under any chapter of Title 11 (Bankruptcy) of the United States Code (11 USC) by or against:

       i. the permittee;

       ii. an entity (as that term is defined in 11 USC, § 101(14)) controlling the permittee or listing the permit or permittee as property of the estate; or

       iii. an affiliate (as that term is defined in 11 USC, § 101(2)) of the permittee.

b. This notification must indicate:

i. the name of the permittee;

ii. the permit number(s);

iii. the bankruptcy court in which the petition for bankruptcy was filed; and

iv. the date of filing of the petition.

OPERATIONAL REQUIREMENTS

1. The permittee shall at all times ensure that the facility and all of its systems of collection, treatment, and disposal are properly operated and maintained. This includes, but is not limited to, the regular, periodic examination of wastewater solids within the treatment plant by the operator in order to maintain an appropriate quantity and quality of solids inventory as described in the various operator training manuals and according to accepted industry standards for process control. Process control, maintenance, and operations records shall be retained at the facility site, or shall be readily available for review by a TCEQ representative, for a period of three years.

2. Upon request by the Executive Director, the permittee shall take appropriate samples and provide proper analysis in order to demonstrate compliance with Commission rules. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall comply with all applicable provisions of 30 TAC Chapter 312 concerning sewage sludge or biosolids use and disposal and 30 TAC §§ 319.21 - 319.29 concerning the discharge of certain hazardous metals.

3. Domestic wastewater treatment facilities shall comply with the following provisions:

   a. The permittee shall notify the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, in writing, of any facility expansion at least 90 days prior to conducting such activity.

   b. The permittee shall submit a closure plan for review and approval to the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, for any closure activity at least 90 days prior to conducting such activity. Closure is the act of permanently taking a waste management unit or treatment facility out of service and includes the permanent removal from service of any pit, tank, pond, lagoon, surface impoundment and/or other treatment unit regulated by this permit.

4. The permittee is responsible for installing prior to plant start-up, and subsequently maintaining, adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures by means of alternate power sources, standby generators, and/or retention of inadequately treated wastewater.

5. Unless otherwise specified, the permittee shall provide a readily accessible sampling point and, where applicable, an effluent flow measuring device or other acceptable means by which effluent flow may be determined.

6. The permittee shall remit an annual water quality fee to the Commission as required by 30

TAC Chapter 21. Failure to pay the fee may result in revocation of this permit under TWC § 7.302(b)(6).

7. Documentation

   For all written notifications to the Commission required of the permittee by this permit, the permittee shall keep and make available a copy of each such notification under the same conditions as self-monitoring data are required to be kept and made available. Except for information required for TPDES permit applications, effluent data, including effluent data in permits, draft permits and permit applications, and other information specified as not confidential in 30 TAC §§ 1.5(d), any information submitted pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted in the manner prescribed in the application form or by stamping the words confidential business information on each page containing such information. If no claim is made at the time of submission, information may be made available to the public without further notice. If the Commission or Executive Director agrees with the designation of confidentiality, the TCEQ will not provide the information for public inspection unless required by the Texas Attorney General or a court pursuant to an open records request. If the Executive Director does not agree with the designation of confidentiality, the person submitting the information will be notified.

8. Facilities that generate domestic wastewater shall comply with the following provisions; domestic wastewater treatment facilities at permitted industrial sites are excluded.

   a. Whenever flow measurements for any domestic sewage treatment facility reach 75% of the permitted daily average or annual average flow for three consecutive months, the permittee must initiate engineering and financial planning for expansion and/or upgrading of the domestic wastewater treatment and/or collection facilities. Whenever the flow reaches 90% of the permitted daily average or annual average flow for three consecutive months, the permittee shall obtain necessary authorization from the Commission to commence construction of the necessary additional treatment and/or collection facilities. In the case of a domestic wastewater treatment facility which reaches 75% of the permitted daily average or annual average flow for three consecutive months, and the planned population to be served or the quantity of waste produced is not expected to exceed the design limitations of the treatment facility, the permittee shall submit an engineering report supporting this claim to the Executive Director of the Commission.

      If in the judgment of the Executive Director the population to be served will not cause permit noncompliance, then the requirement of this section may be waived. To be effective, any waiver must be in writing and signed by the Director of the Enforcement Division (MC 219) of the Commission, and such waiver of these requirements will be reviewed upon expiration of the existing permit; however, any such waiver shall not be interpreted as condoning or excusing any violation of any permit parameter.

   b. The plans and specifications for domestic sewage collection and treatment works associated with any domestic permit must be approved by the Commission and failure to secure approval before commencing construction of such works or making a discharge is a violation of this permit and each day is an additional violation until approval has been secured.

c. Permits for domestic wastewater treatment plants are granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment, and disposal systems. The Commission reserves the right to amend any domestic wastewater permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, should such be developed; to require the delivery of the wastes authorized to be collected in, treated by or discharged from said system, to such area-wide system; or to amend this permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment or disposal system.

9. Domestic wastewater treatment plants shall be operated and maintained by sewage plant operators holding a valid certificate of competency at the required level as defined in 30 TAC Chapter 30.

10. For Publicly Owned Treatment Works (POTWs), the 30-day average (or monthly average) percent removal for BOD and TSS shall not be less than 85%, unless otherwise authorized by this permit.

11. Facilities that generate industrial solid waste as defined in 30 TAC § 335.1 shall comply with these provisions:

    a. Any solid waste, as defined in 30 TAC § 335.1 (including but not limited to such wastes as garbage, refuse, sludge from a waste treatment, water supply treatment plant or air pollution control facility, discarded materials, discarded materials to be recycled, whether the waste is solid, liquid, or semisolid), generated by the permittee during the management and treatment of wastewater, must be managed in accordance with all applicable provisions of 30 TAC Chapter 335, relating to Industrial Solid Waste Management.

    b. Industrial wastewater that is being collected, accumulated, stored, or processed before discharge through any final discharge outfall, specified by this permit, is considered to be industrial solid waste until the wastewater passes through the actual point source discharge and must be managed in accordance with all applicable provisions of 30 TAC Chapter 335.

    c. The permittee shall provide written notification, pursuant to the requirements of 30 TAC § 335.8(b)(1), to the Corrective Action Section (MC 127) of the Remediation Division informing the Commission of any closure activity involving an Industrial Solid Waste Management Unit, at least 90 days prior to conducting such an activity.

    d. Construction of any industrial solid waste management unit requires the prior written notification of the proposed activity to the Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division. No person shall dispose of industrial solid waste, including sludge or other solids from wastewater treatment processes, prior to fulfilling the deed recordation requirements of 30 TAC § 335.5.

    e. The term "industrial solid waste management unit" means a landfill, surface impoundment, waste-pile, industrial furnace, incinerator, cement kiln, injection well,

container, drum, salt dome waste containment cavern, or any other structure vessel, appurtenance, or other improvement on land used to manage industrial solid waste.

f. The permittee shall keep management records for all sludge (or other waste) removed from any wastewater treatment process. These records shall fulfill all applicable requirements of 30 TAC § 335 and must include the following, as it pertains to wastewater treatment and discharge:

   i. Volume of waste and date(s) generated from treatment process;
   ii. Volume of waste disposed of on-site or shipped off-site;
   iii. Date(s) of disposal;
   iv. Identity of hauler or transporter;
   v. Location of disposal site; and
   vi. Method of final disposal.

   The above records shall be maintained on a monthly basis. The records shall be retained at the facility site, or shall be readily available for review by authorized representatives of the TCEQ for at least five years.

12. For industrial facilities to which the requirements of 30 TAC § 335 do not apply, sludge and solid wastes, including tank cleaning and contaminated solids for disposal, shall be disposed of in accordance with THSC § 361.

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SLUDGE PROVISIONS

The permittee is authorized to dispose of sludge only at a Texas Commission on Environmental Quality (TCEQ) authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge. **The disposal of sludge or biosolids by land application on property owned, leased or under the direct control of the permittee is a violation of the permit unless the site is authorized with the TCEQ. This provision does not authorize Distribution and Marketing of Class A or Class AB Biosolids. This provision does not authorize the permittee to land apply biosolids on property owned, leased or under the direct control of the permittee.**

SECTION I. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE OR BIOSOLIDS LAND APPLICATION

A. General Requirements

1. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 312 and all other applicable state and federal regulations in a manner that protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present in the sludge or biosolids.

2. In all cases, if the person (permit holder) who prepares the sewage sludge supplies the sewage sludge to another person for land application use or to the owner or lease holder of the land, the permit holder shall provide necessary information to the parties who receive the sludge to assure compliance with these regulations.

3. The land application of processed or unprocessed chemical toilet waste, grease trap waste, grit trap waste, milk solids, or similar non-hazardous municipal or industrial solid wastes, or any of the wastes listed in this provision combined with biosolids, WTP residuals or domestic septage is prohibited unless the grease trap waste is added at a fats, oil and grease (FOG) receiving facility as part of an anaerobic digestion process.

B. Testing Requirements

1. Sewage sludge or biosolids shall be tested annually in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I [Toxicity Characteristic Leaching Procedure (TCLP)] or other method that receives the prior approval of the TCEQ for the contaminants listed in 40 CFR Part 261.24, Table 1. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal. Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 11) within seven (7) days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P.O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 11) and the Enforcement Division (MC 224).

2. Biosolids shall not be applied to the land if the concentration of the pollutants exceeds the pollutant concentration criteria in Table 1. The frequency of testing for pollutants in Table 1 is found in Section I.C. of this permit.

TABLE 1

Pollutant	Ceiling Concentration (Milligrams per kilogram)*
Arsenic	75
Cadmium	85
Chromium	3000
Copper	4300
Lead	840
Mercury	57
Molybdenum	75
Nickel	420
PCBs	49
Selenium	100
Zinc	7500

* Dry weight basis

3. Pathogen Control

All sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site must be treated by one of the following methods to ensure that the sludge meets either the Class A, Class AB or Class B biosolids pathogen requirements.

a. For sewage sludge to be classified as Class A biosolids with respect to pathogens, the density of fecal coliform in the sewage sludge must be less than 1,000 most probable number (MPN) per gram of total solids (dry weight basis), or the density of Salmonella sp. bacteria in the sewage sludge must be less than three MPN per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. In addition, one of the alternatives listed below must be met:

Alternative 1 - The temperature of the sewage sludge that is used or disposed shall be maintained at or above a specific value for a period of time. See 30 TAC § 312.82(a)(3)(A) for specific information;

Alternative 5 (PFRP) - Sewage sludge that is used or disposed of must be treated in one of the Processes to Further Reduce Pathogens (PFRP) described in 40 CFR Part 503, Appendix B. PFRP include composting, heat drying, heat treatment, and thermophilic aerobic digestion; or

Alternative 6 (PFRP Equivalent) - Sewage sludge that is used or disposed of must be treated in a process that has been approved by the U. S. Environmental Protection Agency as being equivalent to those in Alternative 5.

b. For sewage sludge to be classified as Class AB biosolids with respect to pathogens, the density of fecal coliform in the sewage sludge must be less than 1,000 MPN per gram of total solids (dry weight basis), or the density of *Salmonella* sp. bacteria in the sewage sludge be less than three MPN per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. In addition, one of the alternatives listed below must be met:

   Alternative 2 - The pH of the sewage sludge that is used or disposed shall be raised to above 12 std. units and shall remain above 12 std. units for 72 hours.

   The temperature of the sewage sludge shall be above 52° Celsius for 12 hours or longer during the period that the pH of the sewage sludge is above 12 std. units.

   At the end of the 72-hour period during which the pH of the sewage sludge is above 12 std. units, the sewage sludge shall be air dried to achieve a percent solids in the sewage sludge greater than 50%; or

   Alternative 3 - The sewage sludge shall be analyzed for enteric viruses prior to pathogen treatment. The limit for enteric viruses is less than one Plaque-forming Unit per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 30 TAC § 312.82(a)(2)(C)(i-iii) for specific information. The sewage sludge shall be analyzed for viable helminth ova prior to pathogen treatment. The limit for viable helminth ova is less than one per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 30 TAC § 312.82(a)(2)(C)(iv-vi) for specific information; or

   Alternative 4 - The density of enteric viruses in the sewage sludge shall be less than one Plaque-forming Unit per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. The density of viable helminth ova in the sewage sludge shall be less than one per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed.

c. Sewage sludge that meets the requirements of Class AB biosolids may be classified a Class A biosolids if a variance request is submitted in writing that is supported by substantial documentation demonstrating equivalent methods for reducing odors and written approval is granted by the executive director. The executive director may deny the variance request or revoke that approved variance if it is determined that the variance may potentially endanger human health or the environment, or create nuisance odor conditions.

d. Three alternatives are available to demonstrate compliance with Class B biosolids criteria.

Alternative 1

i. A minimum of seven random samples of the sewage sludge shall be collected within 48 hours of the time the sewage sludge is used or disposed of during each monitoring episode for the sewage sludge.

ii. The geometric mean of the density of fecal coliform in the samples collected shall be less than either 2,000,000 MPN per gram of total solids (dry weight basis) or 2,000,000 Colony Forming Units per gram of total solids (dry weight basis).

Alternative 2 - Sewage sludge that is used or disposed of shall be treated in one of the Processes to Significantly Reduce Pathogens (PSRP) described in 40 CFR Part 503, Appendix B, so long as all of the following requirements are met by the generator of the sewage sludge.

i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;

ii. An independent Texas Licensed Professional Engineer must make a certification to the generator of a sewage sludge that the wastewater treatment facility generating the sewage sludge is designed to achieve one of the PSRP at the permitted design loading of the facility. The certification need only be repeated if the design loading of the facility is increased. The certification shall include a statement indicating the design meets all the applicable standards specified in Appendix B of 40 CFR Part 503;

iii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;

iv. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review; and

v. If the sewage sludge is generated from a mixture of sources, resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the PSRP, and shall meet the certification, operation, and record keeping requirements of this paragraph.

Alternative 3 - Sewage sludge shall be treated in an equivalent process that has been approved by the U.S. Environmental Protection Agency, so long as all of the following requirements are met by the generator of the sewage sludge.

i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;

ii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;

iii. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review;

iv. The Executive Director will accept from the U.S. Environmental Protection Agency a finding of equivalency to the defined PSRP; and

v. If the sewage sludge is generated from a mixture of sources resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the Processes to Significantly Reduce Pathogens, and shall meet the certification, operation, and record keeping requirements of this paragraph.

In addition to the Alternatives 1 – 3, the following site restrictions must be met if Class B biosolids are land applied:

i. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of biosolids.

ii. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of biosolids when the biosolids remain on the land surface for 4 months or longer prior to incorporation into the soil.

iii. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of biosolids when the biosolids remain on the land surface for less than 4 months prior to incorporation into the soil.

iv. Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of biosolids.

v. Domestic livestock shall not be allowed to graze on the land for 30 days after application of biosolids.

vi. Turf grown on land where biosolids are applied shall not be harvested for 1 year after application of the biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn.

vii. Public access to land with a high potential for public exposure shall be restricted for 1 year after application of biosolids.

viii. Public access to land with a low potential for public exposure shall be restricted for 30 days after application of biosolids.

ix. Land application of biosolids shall be in accordance with the buffer zone requirements found in 30 TAC § 312.44.

4. Vector Attraction Reduction Requirements

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site shall be treated by one of the following Alternatives 1 through 10 for vector attraction reduction.

Alternative 1 - The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38%.

Alternative 2 - If Alternative 1 cannot be met for an anaerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge anaerobically in the laboratory in a bench-scale unit for 40 additional days at a temperature between 30° and 37° Celsius. Volatile solids must be reduced by less than 17% to demonstrate compliance.

Alternative 3 - If Alternative 1 cannot be met for an aerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge with percent solids of two percent or less aerobically in the laboratory in a bench-scale unit for 30 additional days at 20° Celsius. Volatile solids must be reduced by less than 15% to demonstrate compliance.

Alternative 4 - The specific oxygen uptake rate (SOUR) for sewage sludge treated in an aerobic process shall be equal to or less than 1.5 milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20° Celsius.

Alternative 5 - Sewage sludge shall be treated in an aerobic process for 14 days or longer. During that time, the temperature of the sewage sludge shall be higher than 40° Celsius and the average temperature of the sewage sludge shall be higher than 45° Celsius.

Alternative 6 - The pH of sewage sludge shall be raised to 12 or higher by alkali addition and, without the addition of more alkali shall remain at 12 or higher for two hours and then remain at a pH of 11.5 or higher for an additional 22 hours at the time the sewage sludge is prepared for sale or given away in a bag or other container.

Alternative 7 - The percent solids of sewage sludge that does not contain unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 75% based on the moisture content and total solids prior to mixing with other materials. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

Alternative 8 - The percent solids of sewage sludge that contains unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 90% based on the moisture content and total solids prior to mixing with other materials at the time the sludge is used. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

Alternative 9 -

i. Biosolids shall be injected below the surface of the land.

ii. No significant amount of the biosolids shall be present on the land surface within one hour after the biosolids are injected.

iii. When sewage sludge that is injected below the surface of the land is Class A or Class AB with respect to pathogens, the biosolids shall be injected below the land surface within eight hours after being discharged from the pathogen treatment process.

Alternative 10-

i. Biosolids applied to the land surface or placed on a surface disposal site shall be incorporated into the soil within six hours after application to or placement on the land.

ii. When biosolids that are incorporated into the soil is Class A or Class AB with respect to pathogens, the biosolids shall be applied to or placed on the land within eight hours after being discharged from the pathogen treatment process.

C. Monitoring Requirements

Toxicity Characteristic Leaching Procedure (TCLP) Test	- annually
PCBs	- annually

All metal constituents and fecal coliform or *Salmonella* sp. bacteria shall be monitored at the appropriate frequency shown below, pursuant to 30 TAC § 312.46(a)(1):

Amount of biosolids (*) metric tons per 365-day period	Monitoring Frequency
0 to less than 290	Once/Year
290 to less than 1,500	Once/Quarter
1,500 to less than 15,000	Once/Two Months
15,000 or greater	Once/Month

(*) *The amount of bulk biosolids applied to the land (dry wt. basis).*

Representative samples of sewage sludge shall be collected and analyzed in accordance with the methods referenced in 30 TAC § 312.7

Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.

Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.

Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, or sewage sludge or biosolids for disposal at a monofill) and whether the material is ultimately conveyed off-site in bulk or in bags.

SECTION II. REQUIREMENTS SPECIFIC TO BULK SEWAGE SLUDGE OR BIOSOLIDS FOR APPLICATION TO THE LAND MEETING CLASS A, CLASS AB or B PATHOGEN REDUCTION AND THE CUMULATIVE LOADING RATES IN TABLE 2, OR CLASS B PATHOGEN REDUCTION AND THE POLLUTANT CONCENTRATIONS IN TABLE 3

For those permittees meeting Class A, Class AB or B pathogen reduction requirements and that meet the cumulative loading rates in Table 2 below, or the Class B pathogen reduction requirements and contain concentrations of pollutants below listed in Table 3, the following conditions apply:

A. Pollutant Limits

Table 2

Pollutant	Cumulative Pollutant Loading Rate (pounds per acre)*
Arsenic	36
Cadmium	35
Chromium	2677
Copper	1339
Lead	268
Mercury	15
Molybdenum	Report Only
Nickel	375
Selenium	89
Zinc	2500

Table 3

Pollutant	Monthly Average Concentration (milligrams per kilogram)*
Arsenic	41
Cadmium	39
Chromium	1200
Copper	1500
Lead	300
Mercury	17
Molybdenum	Report Only
Nickel	420
Selenium	36
Zinc	2800

*Dry weight basis

B. Pathogen Control

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, a reclamation site, shall be treated by either Class A, Class AB or Class B biosolids pathogen reduction requirements as defined above in Section I.B.3.

C. Management Practices

1. Bulk biosolids shall not be applied to agricultural land, forest, a public contact site, or a reclamation site that is flooded, frozen, or snow-covered so that the bulk sewage sludge enters a wetland or other waters in the State.

2. Bulk biosolids not meeting Class A requirements shall be land applied in a manner which complies with Applicability in accordance with 30 TAC §312.41 and the Management Requirements in accordance with 30 TAC § 312.44.

3. Bulk biosolids shall be applied at or below the agronomic rate of the cover crop.

4. An information sheet shall be provided to the person who receives bulk Class A or AB biosolids sold or given away. The information sheet shall contain the following information:

   a. The name and address of the person who prepared the Class A or AB biosolids that are sold or given away in a bag or other container for application to the land.

   b. A statement that application of the biosolids to the land is prohibited except in accordance with the instruction on the label or information sheet.

   c. The annual whole sludge application rate for the biosolids application rate for the biosolids that does not cause any of the cumulative pollutant loading rates in Table 2 above to be exceeded, unless the pollutant concentrations in Table 3 found in Section II above are met.

D. Notification Requirements

1. If bulk biosolids are applied to land in a State other than Texas, written notice shall be provided prior to the initial land application to the permitting authority for the State in which the bulk biosolids are proposed to be applied. The notice shall include:

   a. The location, by street address, and specific latitude and longitude, of each land application site.

   b. The approximate time period bulk biosolids will be applied to the site.

   c. The name, address, telephone number, and National Pollutant Discharge Elimination System permit number (if appropriate) for the person who will apply the bulk biosolids.

2. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the biosolids disposal practice.

E. Record Keeping Requirements

The documents will be retained at the facility site and/or shall be readily available for review by a TCEQ representative. The person who prepares bulk sewage sludge or a biosolids material shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative for a

period of five years. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply.

1. The concentration (mg/kg) in the sludge of each pollutant listed in Table 3 above and the applicable pollutant concentration criteria (mg/kg), or the applicable cumulative pollutant loading rate and the applicable cumulative pollutant loading rate limit (lbs/ac) listed in Table 2 above.

2. A description of how the pathogen reduction requirements are met (including site restrictions for Class AB and Class B biosolids, if applicable).

3. A description of how the vector attraction reduction requirements are met.

4. A description of how the management practices listed above in Section II.C are being met.

5. The following certification statement:

   "I certify, under penalty of law, that the applicable pathogen requirements in 30 TAC § 312.82(a) or (b) and the vector attraction reduction requirements in 30 TAC § 312.83(b) have been met for each site on which bulk biosolids are applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the management practices have been met. I am aware that there are significant penalties for false certification including fine and imprisonment."

6. The recommended agronomic loading rate from the references listed in Section II.C.3. above, as well as the actual agronomic loading rate shall be retained. The person who applies bulk biosolids shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative indefinitely. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply:

   a. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii), as applicable, and to the permittee's specific sludge treatment activities.

   b. The location, by street address, and specific latitude and longitude, of each site on which biosolids are applied.

   c. The number of acres in each site on which bulk biosolids are applied.

   d. The date and time biosolids are applied to each site.

   e. The cumulative amount of each pollutant in pounds/acre listed in Table 2 applied to each site.

   f. The total amount of biosolids applied to each site in dry tons.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

F. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 11) and the Enforcement Division (MC 224).

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.

2. Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, or sewage sludge for disposal at a monofill) and whether the material is ultimately conveyed off-site in bulk or in bags.

3. Results of tests performed for pollutants found in either Table 2 or 3 as appropriate for the permittee's land application practices.

4. The frequency of monitoring listed in Section I.C. that applies to the permittee.

5. Toxicity Characteristic Leaching Procedure (TCLP) results.

6. PCB concentration in sludge or biosolids in mg/kg.

7. Identity of hauler(s) and TCEQ transporter number.

8. Date(s) of transport.

9. Texas Commission on Environmental Quality registration number, if applicable.

10. Amount of sludge or biosolids disposal dry weight (lbs/acre) at each disposal site.

11. The concentration (mg/kg) in the sludge of each pollutant listed in Table 1 (defined as a monthly average) as well as the applicable pollutant concentration criteria (mg/kg) listed in Table 3 above, or the applicable pollutant loading rate limit (lbs/acre) listed in Table 2 above if it exceeds 90% of the limit.

12. Level of pathogen reduction achieved (Class A, Class AB or Class B).

13. Alternative used as listed in Section I.B.3.(a. or b.). Alternatives describe how the pathogen reduction requirements are met. If Class B biosolids, include information on how site restrictions were met.

14. Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.

15. Vector attraction reduction alternative used as listed in Section I.B.4.

16. Amount of sludge or biosolids transported in dry tons/year.

17. The certification statement listed in either 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii) as applicable to the permittee's sludge or biosolids treatment activities, shall be attached to the annual reporting form.

18. When the amount of any pollutant applied to the land exceeds 90% of the cumulative pollutant loading rate for that pollutant, as described in Table 2, the permittee shall report the following information as an attachment to the annual reporting form.

    a. The location, by street address, and specific latitude and longitude.

    b. The number of acres in each site on which bulk biosolids are applied.

    c. The date and time bulk biosolids are applied to each site.

    d. The cumulative amount of each pollutant (i.e., pounds/acre) listed in Table 2 in the bulk biosolids applied to each site.

    e. The amount of biosolids (i.e., dry tons) applied to each site.

    The above records shall be maintained on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

SECTION III. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE OR BIOSOLIDS DISPOSED IN A MUNICIPAL SOLID WASTE LANDFILL

A. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 330 and all other applicable state and federal regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present. The permittee shall ensure that the sewage sludge meets the requirements in 30 TAC § 330 concerning the quality of the sludge or biosolids disposed in a municipal solid waste landfill.

B. If the permittee generates sewage sludge and supplies that sewage sludge or biosolids to the owner or operator of a municipal solid waste landfill (MSWLF) for disposal, the permittee shall provide to the owner or operator of the MSWLF appropriate information needed to be in compliance with the provisions of this permit.

C. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the sewage sludge or biosolids disposal practice.

D. Sewage sludge or biosolids shall be tested annually in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I (Toxicity Characteristic Leaching Procedure) or other method, which receives the prior approval of the TCEQ for contaminants listed in Table 1 of 40 CFR § 261.24. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal.

   Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 11) of the appropriate TCEQ field office within 7 days after failing the TCLP Test.

   The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P. O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. This annual report shall be submitted to the TCEQ Regional Office (MC Region 11) and the Enforcement Division (MC 224), by September 30 of each year.

E. Sewage sludge or biosolids shall be tested as needed, in accordance with the requirements of 30 TAC Chapter 330.

F. Record Keeping Requirements

   The permittee shall develop the following information and shall retain the information for five years.

1. The description (including procedures followed and the results) of all liquid Paint Filter Tests performed.

2. The description (including procedures followed and results) of all TCLP tests performed.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

G. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 11) and the Enforcement Division (MC 224).

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.

2. Toxicity Characteristic Leaching Procedure (TCLP) results.

3. Annual sludge or biosolids production in dry tons/year.

4. Amount of sludge or biosolids disposed in a municipal solid waste landfill in dry tons/year.

5. Amount of sludge or biosolids transported interstate in dry tons/year.

6. A certification that the sewage sludge or biosolids meets the requirements of 30 TAC § 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.

7. Identity of hauler(s) and transporter registration number.

8. Owner of disposal site(s).

9. Location of disposal site(s).

10. Date(s) of disposal.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

SECTION IV. REQUIREMENTS APPLYING TO SLUDGE OR BIOSOLIDS TRANSPORTED TO ANOTHER FACILITY FOR FURTHER PROCESSING

These provisions apply to sludge or biosolids that is transported to another wastewater treatment facility or facility that further processes sludge or biosolids. These provisions are intended to allow transport of sludge or biosolids to facilities that have been authorized to accept sludge or biosolids. These provisions do not limit the ability of the receiving facility to determine whether to accept the sludge or biosolids, nor do they limit the ability of the receiving facility to request additional testing or documentation.

A. General Requirements

1. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC Chapter 312 and all other applicable state and federal regulations in a manner that protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present in the sludge.

2. Sludge or biosolids may only be transported using a registered transporter or using an approved pipeline.

B. Record Keeping Requirements

1. For sludge transported by an approved pipeline, the permittee must maintain records of the following:

   a. the amount of sludge or biosolids transported;

   b. the date of transport;

   c. the name and TCEQ permit number of the receiving facility or facilities;

   d. the location of the receiving facility or facilities;

   e. the name and TCEQ permit number of the facility that generated the waste; and

   f. copy of the written agreement between the permittee and the receiving facility to accept sludge or biosolids.

2. For sludge or biosolids transported by a registered transporter, the permittee must maintain records of the completed trip tickets in accordance with 30 TAC § 312.145(a)(1)-(7) and amount of sludge or biosolids transported.

3. The above records shall be maintained on-site on a monthly basis and shall be made available to the TCEQ upon request. These records shall be retained for at least five years.

C. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 11) and the Enforcement Division (MC 224).

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.

2. the annual sludge or biosolids production;

3. the amount of sludge or biosolids transported;

4. the owner of each receiving facility;

5. the location of each receiving facility; and

6. the date(s) of disposal at each receiving facility.

TCEQ Revision 06/2020

OTHER REQUIREMENTS

1. The permittee shall employ or contract with one or more licensed wastewater treatment facility operators or wastewater system operations companies holding a valid license or registration according to the requirements of 30 TAC Chapter 30, Occupational Licenses and Registrations, and in particular 30 TAC Chapter 30, Subchapter J, Wastewater Operators and Operations Companies.

   This Category B facility in the Interim I and II phases and Category A facility in the Interim III and Final phases must be operated by a chief operator or an operator holding a Class B license or higher in the Interim I and II phases and Class A license or higher in the Interim III and Final phases. The facility must be operated a minimum of five days per week by the licensed chief operator or an operator holding the required level of license or higher. The licensed chief operator or operator holding the required level of license or higher must be available by telephone or pager seven days per week. Where shift operation of the wastewater treatment facility is necessary, each shift that does not have the on-site supervision of the licensed chief operator must be supervised by an operator in charge who is licensed not less than one level below the category for the facility.

2. The facility is not located in the Coastal Management Program boundary.

3. Chronic toxic criteria apply at the edge of the mixing zone. The mixing zone is defined as 300 feet downstream and 100 feet upstream from the point of discharge.

4. The permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d). In addition, by ownership of the required buffer zone area, the permittee shall comply with the requirements of 30 TAC § 309.13(e).

5. The permittee shall provide facilities for the protection of its wastewater treatment facility from a 100-year flood.

6. In accordance with 30 TAC § 319.9, a permittee that has at least twelve months of uninterrupted compliance with its bacteria limit may notify the commission in writing of its compliance and request a less frequent measurement schedule. To request a less frequent schedule, the permittee shall submit a written request to the TCEQ Wastewater Permitting Section (MC 148) for each phase that includes a different monitoring frequency. The request must contain all of the reported bacteria values (Daily Avg. and Daily Max/Single Grab) for the twelve consecutive months immediately prior to the request. If the Executive Director finds that a less frequent measurement schedule is protective of human health and the environment, the permittee may be given a less frequent measurement schedule. For this permit, daily may be reduced to five/week in the Interim I, II, III and Final phases. **A violation of any bacteria limit by a facility that has been granted a less frequent measurement schedule will require the permittee to return to the standard frequency schedule and submit written notice to the TCEQ Wastewater Permitting Section (MC 148).** The permittee may not apply for another reduction in measurement frequency for at least 24 months from the date of the last violation. The Executive Director may establish a more frequent measurement schedule if necessary to protect human health or the environment.

7. Prior to construction of the Interim II, Interim III and Final phases treatment facilities, the permittee shall submit to the TCEQ Wastewater Permitting Section (MC 148) a summary

transmittal letter in accordance with the requirements in 30 TAC § 217.6(d). If requested by the Wastewater Permitting Section, the permittee shall submit plans, specifications, and a final engineering design report which comply with 30 TAC Chapter 217, Design Criteria for Domestic Wastewater Systems. The permittee shall clearly show how the treatment system will meet the effluent limitations required on Page 2a ,2b and 2c of this permit. A copy of the summary transmittal letter shall be available at the plant site for inspection by authorized representatives of the TCEQ.

Plans and specifications have been approved for the 4.5 MGD wastewater treatment facility, in accordance with 30 TAC § 217, Design Criteria for Domestic Wastewater Systems. A summary transmittal approval letter was issued January 30, 2022 (Log No. 0118/032 and 0619/016). A copy of the summary transmittal letter shall be available at the plant site for inspection by authorized representatives of the TCEQ.

8. The permittee shall notify the TCEQ Regional Office (MC Region 11) and the Applications Review and Processing Team (MC 148) of the Water Quality Division, in writing at least forty-five days prior to the completion of the Interim II, Interim III and Final phases treatment facilities on Notification of Completion Form 20007.

CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS

1. The following pollutants may not be introduced into the treatment facility:

   a. Pollutants which create a fire or explosion hazard in the publicly owned treatment works (POTW), including, but not limited to, waste streams with a closed-cup flash point of less than 140° Fahrenheit (60° Celsius) using the test methods specified in 40 CFR § 261.21;

   b. Pollutants which will cause corrosive structural damage to the POTW, but in no case shall there be discharges with a pH lower than 5.0 standard units, unless the works are specifically designed to accommodate such discharges;

   c. Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW, resulting in Interference;

   d. Any pollutant, including oxygen-demanding pollutants (e.g., biochemical oxygen demand), released in a discharge at a flow rate and/or pollutant concentration which will cause Interference with the POTW;

   e. Heat in amounts which will inhibit biological activity in the POTW, resulting in Interference, but in no case shall there be heat in such quantities that the temperature at the POTW treatment plant exceeds 104° Fahrenheit (40° Celsius) unless the Executive Director, upon request of the POTW, approves alternate temperature limits;

   f. Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin in amounts that will cause Interference or Pass Through;

   g. Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems; and

   h. Any trucked or hauled pollutants except at discharge points designated by the POTW.

2. The permittee shall require any indirect discharger to the treatment works to comply with the reporting requirements of Sections 204(b), 307, and 308 of the Clean Water Act, including any requirements established under 40 CFR Part 403 [*rev. Federal Register/ Vol. 70/ No. 198/ Friday, October 14, 2005/ Rules and Regulations, pages 60134-60798*].

3. The permittee shall provide adequate notification to the Executive Director, care of the Wastewater Permitting Section (MC 148) of the Water Quality Division, within 30 days subsequent to the permittee's knowledge of either of the following:

   a. Any new introduction of pollutants into the treatment works from an indirect discharger which would be subject to Sections 301 and 306 of the Clean Water Act if it were directly discharging those pollutants; and

   b. Any substantial change in the volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into the treatment works at the time of issuance of the permit.

   Any notice shall include information on the quality and quantity of effluent to be introduced into the treatment works and any anticipated impact of the change on the quality or quantity of effluent to be discharged from the POTW.

Revised July 2007

BIOMONITORING REQUIREMENTS

CHRONIC BIOMONITORING REQUIREMENTS: FRESHWATER

The provisions of this section apply to Outfall 001 for whole effluent toxicity (WET) testing.

1. Scope, Frequency, and Methodology

   a. The permittee shall test the effluent for toxicity in accordance with the provisions below. Such testing will determine if an appropriately dilute effluent sample adversely affects the survival, reproduction, or growth of the test organisms.

   b. The permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified in this part of this permit and in accordance with "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms," fourth edition (EPA-821-R-02-013) or its most recent update:

      1) Chronic static renewal survival and reproduction test using the water flea (*Ceriodaphnia dubia*) (Method 1002.0). This test should be terminated when 60% of the surviving adults in the control produce three broods or at the end of eight days, whichever occurs first. This test shall be conducted once per quarter.

      2) Chronic static renewal 7-day larval survival and growth test using the fathead minnow (*Pimephales promelas*) (Method 1000.0). A minimum of five replicates with eight organisms per replicate shall be used in the control and in each dilution. This test shall be conducted once per quarter.

      The permittee must perform and report a valid test for each test species during the prescribed reporting period. An invalid test must be repeated during the same reporting period. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

   c. The permittee shall use five effluent dilution concentrations and a control in each toxicity test. These effluent dilution concentrations are 32%, 42%, 56%, 75%, and 100% effluent. The critical dilution, defined as 100% effluent, is the effluent concentration representative of the proportion of effluent in the receiving water during critical low flow or critical mixing conditions.

   d. This permit may be amended to require a WET limit, a chemical-specific effluent limit, a best management practice, or other appropriate actions to address toxicity. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.

   e. Should a test fail (i.e., demonstrate significant toxicity), the testing frequency for that test species increases to monthly until three consecutive tests pass (i.e., do not demonstrate significant toxicity), at which time the testing frequency of once per quarter resumes. If three or more failures are demonstrated during the

permit term for one or both test species, a WET limit will be included for that species in the subsequently reissued permit. Any two lethal failures in a three month period will require the permittee to initiate a TRE (see Part 4. Toxicity Reduction Evaluation).

2. Required Toxicity Testing Conditions

a. Test Acceptance - The permittee shall repeat any toxicity test, including the control and all effluent dilutions, which fail to meet the following criteria:

1) a control mean survival of 80% or greater;

2) a control mean number of water flea neonates per surviving adult of 15 or greater;

3) a control mean dry weight of surviving fathead minnow larvae of 0.25 mg or greater;

4) a control coefficient of variation percent (CV%) of 40 or less in between replicates for the young of surviving females in the water flea test; and the growth and survival endpoints in the fathead minnow test;

5) a critical dilution CV% of 40 or less for the young of surviving females in the water flea test; and the growth and survival endpoints for the fathead minnow test. However, if statistically significant lethal or nonlethal effects are exhibited at the critical dilution, a CV% greater than 40 shall not invalidate the test;

6) a percent minimum significant difference of 47 or less for water flea reproduction; and

7) a percent minimum significant difference of 30 or less for fathead minnow growth.

b. Statistical Interpretation

1) For the water flea survival test, the statistical analyses used to determine if there is a significant difference between the control and an effluent dilution shall be the Fisher's exact test as described in the manual referenced in in Part 1.b.

2) For the water flea reproduction test and the fathead minnow larval survival and growth tests, the statistical analyses used to determine if there is a significant difference between the control and an effluent dilution shall be in accordance with the manual referenced in Part 1.b.

3) The permittee is responsible for reviewing test concentration-response relationships to ensure that calculated test-results are interpreted and reported correctly. The document entitled "Method Guidance and Recommendation for Whole Effluent Toxicity (WET) Testing (40 CFR Part 136)" (EPA 821-B-00-004) provides guidance on determining the

validity of test results.

4) If significant lethality is demonstrated (that is, there is a statistically significant difference in survival at the critical dilution when compared to the survival in the control), the conditions of test acceptability are met, and the survival of the test organisms are equal to or greater than 80% in the critical dilution and all dilutions below that, then the permittee shall report a survival No Observed Effect Concentration (NOEC) of not less than the critical dilution for the reporting requirements.

5) The NOEC is defined as the greatest effluent dilution at which no significant effect is demonstrated. The Lowest Observed Effect Concentration (LOEC) is defined as the lowest effluent dilution at which a significant effect is demonstrated. A significant effect is defined as a statistically significant difference between the survival, reproduction, or growth of the test organism in a specified effluent dilution when compared to the survival, reproduction, or growth of the test organism in the control.

6) The use of NOECs and LOECs assumes either a monotonic (continuous) concentration-response relationship or a threshold model of the concentration-response relationship. For any test result that demonstrates a non-monotonic (non-continuous) response, the NOEC should be determined based on the guidance manual referenced in Item 3.

7) Pursuant to the responsibility assigned to the permittee in Part 2.b.3), test results that demonstrate a non-monotonic (non-continuous) concentration-response relationship may be submitted, prior to the due date, for technical review. The guidance manual referenced in Item 3 will be used when making a determination of test acceptability.

8) TCEQ staff will review test results for consistency with rules, procedures, and permit requirements.

c. Dilution Water

1) Dilution water used in the toxicity tests must be the receiving water collected at a point upstream of the discharge point as close as possible to the discharge point but unaffected by the discharge. Where the toxicity tests are conducted on effluent discharges to receiving waters that are classified as intermittent streams, or where the toxicity tests are conducted on effluent discharges where no receiving water is available due to zero flow conditions, the permittee shall:

a) substitute a synthetic dilution water that has a pH, hardness, and alkalinity similar to that of the closest downstream perennial water unaffected by the discharge; or

b) use the closest downstream perennial water unaffected by the discharge.

2) Where the receiving water proves unsatisfactory as a result of pre-existing instream toxicity (i.e. fails to fulfill the test acceptance criteria of Part 2.a.), the permittee may substitute synthetic dilution water for the receiving water in all subsequent tests provided the unacceptable receiving water test met the following stipulations:

a) a synthetic lab water control was performed (in addition to the receiving water control) which fulfilled the test acceptance requirements of Part 2.a;

b) the test indicating receiving water toxicity was carried out to completion (i.e., 7 days); and

c) the permittee submitted all test results indicating receiving water toxicity with the reports and information required in Part 3.

3) The synthetic dilution water shall consist of standard, moderately hard, reconstituted water. Upon approval, the permittee may substitute other appropriate dilution water with chemical and physical characteristics similar to that of the receiving water.

d. Samples and Composites

1) The permittee shall collect a minimum of three composite samples from Outfall 001. The second and third composite samples will be used for the renewal of the dilution concentrations for each toxicity test.

2) The permittee shall collect the composite samples such that the samples are representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged on an intermittent basis.

3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the first composite sample. The holding time for any subsequent composite sample shall not exceed 72 hours. Samples shall be maintained at a temperature of 0-6 degrees Centigrade during collection, shipping, and storage.

4) If Outfall 001 ceases discharging during the collection of effluent samples, the requirements for the minimum number of effluent samples, the minimum number of effluent portions, and the sample holding time are waived during that sampling period. However, the permittee must have collected an effluent composite sample volume sufficient to complete the required toxicity tests with renewal of the effluent. When possible, the effluent samples used for the toxicity tests shall be collected on separate days if the discharge occurs over multiple days. The sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report.

5) The effluent samples shall not be dechlorinated after sample collection.

3. Reporting

All reports, tables, plans, summaries, and related correspondence required in this section shall be submitted to the attention of the Standards Implementation Team (MC 150) of the Water Quality Division.

a. The permittee shall prepare a full report of the results of all tests conducted in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated whether carried to completion or not.

b. The permittee shall routinely report the results of each biomonitoring test on the Table 1 forms provided with this permit.

1) Annual biomonitoring test results are due on or before January 20th for biomonitoring conducted during the previous 12-month period.

2) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.

3) Quarterly biomonitoring test results are due on or before April 20th, July 20th, October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.

4) Monthly biomonitoring test results are due on or before the 20th day of the month following sampling.

c. Enter the following codes for the appropriate parameters for valid tests only:

1) For the water flea, Parameter TLP3B, enter a “1” if the NOEC for survival is less than the critical dilution; otherwise, enter a “0.”

2) For the water flea, Parameter TOP3B, report the NOEC for survival.

3) For the water flea, Parameter TXP3B, report the LOEC for survival.

4) For the water flea, Parameter TWP3B, enter a “1” if the NOEC for reproduction is less than the critical dilution; otherwise, enter a “0.”

5) For the water flea, Parameter TPP3B, report the NOEC for reproduction.

6) For the water flea, Parameter TYP3B, report the LOEC for reproduction.

7) For the fathead minnow, Parameter TLP6C, enter a “1” if the NOEC for survival is less than the critical dilution; otherwise, enter a “0.”

8) For the fathead minnow, Parameter TOP6C, report the NOEC for survival.

9) For the fathead minnow, Parameter TXP6C, report the LOEC for survival.

10) For the fathead minnow, Parameter TWP6C, enter a “1” if the NOEC for

growth is less than the critical dilution; otherwise, enter a "0."

11) For the fathead minnow, Parameter TPP6C, report the NOEC for growth.

12) For the fathead minnow, Parameter TYP6C, report the LOEC for growth.

4. Toxicity Reduction Evaluation

a. Within 45 days of the retest that demonstrates significant lethality, or within 45 days of being so instructed due to multiple toxic events, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.

b. Within 90 days of the retest that demonstrates significant lethality, or within 90 days of being so instructed due to multiple toxic events, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analyses to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall describe an approach for the reduction or elimination of lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:

1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled "Toxicity Identification Evaluation: Characterization of Chronically Toxic Effluents, Phase I" (EPA/600/6-91/005F) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled "Methods for Aquatic Toxicity Identification Evaluations, Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;

2) Sampling Plan - The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects a specific pollutant and source of effluent toxicity, the permittee shall

conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;

3) Quality Assurance Plan - The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and

4) Project Organization - The TRE action plan should describe the project staff, project manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.

c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.

d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:

1) results and interpretation of any chemical-specific analyses for the identified and suspected pollutant performed during the quarter;

2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;

3) any data and substantiating documentation which identifies the pollutant(s) and source of effluent toxicity;

4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;

5) any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to meet no significant lethality at the critical dilution; and

6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.

e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.

f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive months with at least monthly testing. At the end of the 12 months, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

This provision accommodates situations where operational errors and upsets, spills, or sampling errors triggered the TRE, in contrast to a situation where a single toxicant or group of toxicants cause lethality. This provision does not apply as a result of corrective actions taken by the permittee. Corrective actions are defined as proactive efforts that eliminate or reduce effluent toxicity. These include, but are not limited to, source reduction or elimination, improved housekeeping, changes in chemical usage, and modifications of influent streams and effluent treatment.

The permittee may only apply this cessation of lethality provision once. If the effluent again demonstrates significant lethality to the same species, the permit will be amended to add a WET limit with a compliance period, if appropriate. However, prior to the effective date of the WET limit, the permittee may apply for a permit amendment removing and replacing the WET limit with an alternate toxicity control measure by identifying and confirming the toxicant and an appropriate control measure.

g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 28 months from the last test day of the retest that confirmed significant lethal effects at the critical dilution. The permittee may petition the Executive Director (in writing) for an extension of the 28-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE. The report shall provide information pertaining to the specific control mechanism selected that will, when implemented, result in the reduction of effluent toxicity to no significant lethality at the critical dilution. The report shall also provide a specific corrective action schedule for implementing the selected control mechanism.

h. Based on the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements, where necessary, require a compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.

i. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

TABLE 1 (SHEET 1 OF 4)

BIOMONITORING REPORTING

CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION

Dates and Times Composites Collected

Date Time Date Time

No. 1 FROM: _____ TO: _____

No. 2 FROM: _____ TO: _____

No. 3 FROM: _____ TO: _____

Test initiated: _____am/pm _____date

Dilution water used: _____ Receiving water _____ Synthetic Dilution water

NUMBER OF YOUNG PRODUCED PER ADULT AT END OF TEST

REP	Percent effluent					
	0%	32%	42%	56%	75%	100%
A						
B						
C						
D						
E						
F						
G						
H						
I						
J						
Survival Mean						
Total Mean						
CV%*						
PMSD						

*Coefficient of Variation = standard deviation x 100/mean (calculation based on young of the surviving adults)

Designate males (M), and dead females (D), along with number of neonates (x) released prior to death.

TABLE 1 (SHEET 2 OF 4)

CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION TEST

1. Dunnett's Procedure or Steel's Many-One Rank Test or Wilcoxon Rank Sum Test (with Bonferroni adjustment) or t-test (with Bonferroni adjustment) as appropriate:

   Is the mean number of young produced per adult significantly less than the number of young per adult in the control for the % effluent corresponding to significant nonlethal effects?

   CRITICAL DILUTION (100%): _____ YES _____ NO

PERCENT SURVIVAL

	Percent effluent					
Time of Reading	0%	32%	42%	56%	75%	100%
24h						
48h						
End of Test						

2. Fisher's Exact Test:

   Is the mean survival at test end significantly less than the control survival for the % effluent corresponding to lethality?

   CRITICAL DILUTION (100%): _____ YES _____ NO

3. Enter percent effluent corresponding to each NOEC\LOEC below:

   a.) NOEC survival = _____% effluent

   b.) LOEC survival = _____% effluent

   c.) NOEC reproduction = _____% effluent

   d.) LOEC reproduction = _____% effluent

TABLE 1 (SHEET 3 OF 4)

BIOMONITORING REPORTING

FATHEAD MINNOW LARVAE GROWTH AND SURVIVAL

Dates and Times Composites Collected

Date Time Date Time

No. 1 FROM: _____ TO: _____

No. 2 FROM: _____ TO: _____

No. 3 FROM: _____ TO: _____

Test initiated: _____am/pm _____date

Dilution water used: _____ Receiving water _____ Synthetic dilution water

FATHEAD MINNOW GROWTH DATA

Effluent Concentration	Average Dry Weight in replicate chambers					Mean Dry Weight	CV%*
	A	B	C	D	E		
0%							
32%							
42%							
56%							
75%							
100%							
PMSD							

* Coefficient of Variation = standard deviation x 100/mean

1. Dunnett's Procedure or Steel's Many-One Rank Test or Wilcoxon Rank Sum Test (with Bonferroni adjustment) or t-test (with Bonferroni adjustment) as appropriate:

   Is the mean dry weight (growth) at 7 days significantly less than the control's dry weight (growth) for the % effluent corresponding to significant nonlethal effects?

   CRITICAL DILUTION (100%): _____ YES _____ NO

TABLE 1 (SHEET 4 OF 4)

BIOMONITORING REPORTING

FATHEAD MINNOW GROWTH AND SURVIVAL TEST

FATHEAD MINNOW SURVIVAL DATA

Effluent Concentration	Percent Survival in replicate chambers					Mean percent survival			CV%*
	A	B	C	D	E	24h	48h	7 day	
0%									
32%									
42%									
56%									
75%									
100%									

* Coefficient of Variation = standard deviation x 100/mean

2. Dunnett's Procedure or Steel's Many-One Rank Test or Wilcoxon Rank Sum Test (with Bonferroni adjustment) or t-test (with Bonferroni adjustment) as appropriate:

   Is the mean survival at 7 days significantly less than the control survival for the % effluent corresponding to lethality?

   CRITICAL DILUTION (100%): _____ YES _____ NO

3. Enter percent effluent corresponding to each NOEC\LOEC below:

   a.) NOEC survival = _____% effluent

   b.) LOEC survival = _____% effluent

   c.) NOEC growth = _____% effluent

   d.) LOEC growth = _____% effluent

24-HOUR ACUTE BIOMONITORING REQUIREMENTS: FRESHWATER

The provisions of this section apply to Outfall 001 for whole effluent toxicity (WET) testing.

1. Scope, Frequency, and Methodology

a. The permittee shall test the effluent for lethality in accordance with the provisions in this section. Such testing will determine compliance with Texas Surface Water Quality Standard 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the appropriate test organisms in 100% effluent for a 24-hour period.

b. The toxicity tests specified shall be conducted once per six months. The permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified in this section of the permit and in accordance with "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms," fifth edition (EPA-821-R-02-012) or its most recent update:

1) Acute 24-hour static toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.

2) Acute 24-hour static toxicity test using the fathead minnow (*Pimephales promelas*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.

A valid test result must be submitted for each reporting period. The permittee must report, and then repeat, an invalid test during the same reporting period. The repeat test shall include the control and the 100% effluent dilution and use the appropriate number of organisms and replicates, as specified above. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

c. In addition to an appropriate control, a 100% effluent concentration shall be used in the toxicity tests. Except as discussed in item 2.b., the control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.

d. This permit may be amended to require a WET limit, a Best Management Practice (BMP), Chemical-Specific (CS) limits, or other appropriate actions to address toxicity. The permittee may be required to conduct a Toxicity Reduction Evaluation after multiple toxic events.

e. As the dilution series specified in the Chronic Biomonitoring Requirements includes a 100% effluent concentration, the results from those tests may fulfill the requirements of this Section; any tests performed in the proper time interval may be substituted. Compliance will be evaluated as specified in item a. The 50% survival in 100% effluent for a 24-hour period standard applies to all tests utilizing a 100% effluent dilution, regardless of whether the results are submitted to comply with the minimum testing frequency defined in item b.

2. Required Toxicity Testing Conditions

a. Test Acceptance - The permittee shall repeat any toxicity test, including the control, if the control fails to meet a mean survival equal to or greater than 90%.

b. Dilution Water - In accordance with item 1.c., the control and dilution water shall normally consist of standard, synthetic, moderately hard, reconstituted water. If the permittee utilizes the results of a chronic test to satisfy the requirements in item 1.e., the permittee may use the receiving water or dilution water that meets the requirements of item 2.a as the control and dilution water.

c. Samples and Composites

1) The permittee shall collect one composite sample from Outfall 001.

2) The permittee shall collect the composite sample such that the sample is representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged.

3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the composite sample. The sample shall be maintained at a temperature of 0-6 degrees Centigrade during collection, shipping, and storage.

4) If Outfall 001 ceases discharging during the collection of the effluent composite sample, the requirements for the minimum number of effluent portions are waived. However, the permittee must have collected a composite sample volume sufficient for completion of the required test. The abbreviated sample collection, duration, and methodology must be documented in the full report.

5) The effluent sample shall not be dechlorinated after sample collection.

3. Reporting

All reports, tables, plans, summaries, and related correspondence required in this section shall be submitted to the attention of the Standards Implementation Team (MC 150) of the Water Quality Division.

a. The permittee shall prepare a full report of the results of all tests conducted in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated.

b. The permittee shall routinely report the results of each biomonitoring test on the Table 2 forms provided with this permit.

1) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.

2) Quarterly biomonitoring test results are due on or before April 20th, July 20th, and October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.

c. Enter the following codes for the appropriate parameters for valid tests only:

1) For the water flea, Parameter TIE3D, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a "1."

2) For the fathead minnow, Parameter TIE6C, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a "1."

d. Enter the following codes for retests only:

1) For retest number 1, Parameter 22415, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a "1."

2) For retest number 2, Parameter 22416, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a "1."

4. Persistent Mortality

The requirements of this part apply when a toxicity test demonstrates significant lethality, which is defined as a mean mortality of 50% or greater of organisms exposed to the 100% effluent concentration for 24 hours.

a. The permittee shall conduct 2 additional tests (retests) for each species that demonstrates significant lethality. The two retests shall be conducted once per week for 2 weeks. Five effluent dilution concentrations in addition to an appropriate control shall be used in the retests. These effluent concentrations are 6%, 13%, 25%, 50% and 100% effluent. The first retest shall be conducted within 15 days of the laboratory determination of significant lethality. All test results shall be submitted within 20 days of test completion of the second retest. Test completion is defined as the 24th hour.

b. If one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5.

5. Toxicity Reduction Evaluation

a. Within 45 days of the retest that demonstrates significant lethality, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.

b. Within 90 days of the retest that demonstrates significant lethality, the permittee

shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analyses to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall lead to the successful elimination of significant lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:

1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA/600/6-91/003) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;

2) Sampling Plan - The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;

3) Quality Assurance Plan - The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and

4) Project Organization - The TRE Action Plan should describe the project staff, project manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.

c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.

d. The permittee shall submit quarterly TRE activities reports concerning the

progress of the TRE. The quarterly TRE activities reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:

1) results and interpretation of any chemical-specific analyses for the identified and suspected pollutant performed during the quarter;

2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;

3) any data and substantiating documentation that identifies the pollutant and source of effluent toxicity;

4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;

5) any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to eliminate significant lethality; and

6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.

e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.

f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive weeks with at least weekly testing. At the end of the 12 weeks, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

This provision accommodates situations where operational errors and upsets, spills, or sampling errors triggered the TRE, in contrast to a situation where a single toxicant or group of toxicants cause lethality. This provision does not apply as a result of corrective actions taken by the permittee. Corrective actions are defined as proactive efforts that eliminate or reduce effluent toxicity. These include, but are not limited to, source reduction or elimination, improved housekeeping, changes in chemical usage, and modifications of influent streams and effluent treatment.

The permittee may only apply this cessation of lethality provision once. If the effluent again demonstrates significant lethality to the same species, the permit will be amended to add a WET limit with a compliance period, if appropriate. However, prior to the effective date of the WET limit, the permittee may apply for a permit amendment removing and replacing the WET limit with an alternate toxicity control measure by identifying and confirming the toxicant and an appropriate control measure.

g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 18 months from the last test day of the retest that demonstrates significant lethality. The permittee may petition the Executive Director (in writing) for an extension of the 18-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE. The report shall specify the control mechanism that will, when implemented, reduce effluent toxicity as specified in Part 5.h. The report shall also specify a corrective action schedule for implementing the selected control mechanism.

h. Within 3 years of the last day of the test confirming toxicity, the permittee shall comply with 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the test organism in 100% effluent at the end of 24-hours. The permittee may petition the Executive Director (in writing) for an extension of the 3-year limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE.

The permittee may be exempted from complying with 30 TAC § 307.6(e)(2)(B) upon proving that toxicity is caused by an excess, imbalance, or deficiency of dissolved salts. This exemption excludes instances where individually toxic components (e.g., metals) form a salt compound. Following the exemption, this permit may be amended to include an ion-adjustment protocol, alternate species testing, or single species testing.

i. Based upon the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements where necessary, require a compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.

j. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

TABLE 2 (SHEET 1 OF 2)

WATER FLEA SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

Time	Rep	Percent effluent					
		0%	6%	13%	25%	50%	100%
24h	A						
	B						
	C						
	D						
	E						
	MEAN						

Enter percent effluent corresponding to the LC50 below:

24 hour LC50 = _____% effluent

TABLE 2 (SHEET 2 OF 2)

FATHEAD MINNOW SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

Time	Rep	Percent effluent					
		0%	6%	13%	25%	50%	100%
24h	A						
	B						
	C						
	D						
	E						
	MEAN						

Enter percent effluent corresponding to the LC50 below:

24 hour LC50 = _____% effluent

FACT SHEET AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

For draft Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0011041002, EPA I.D. No. TX0119466, to discharge to water in the state.

Issuing Office:	Texas Commission on Environmental Quality P.O. Box 13087 Austin, Texas 78711-3087
Applicant:	City of Kyle 100 West Center Street Kyle, Texas 78640
Prepared By:	Sumitra Pokharel Municipal Permits Team Wastewater Permitting Section (MC 148) Water Quality Division (512) 239-4722
Date:	July 10, 2025
Permit Action:	Minor Amendment without Renewal

1. EXECUTIVE DIRECTOR RECOMMENDATION

The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The draft permit includes an expiration date of **February 5, 2028**.

2. APPLICANT ACTIVITY

The applicant has applied to the Texas Commission on Environmental Quality (TCEQ) for a minor amendment of the existing permit to add an Interim II phase with an annual average flow of 6.0 million gallons per day (MGD). The existing wastewater treatment facility serves the City of Kyle.

3. FACILITY AND DISCHARGE LOCATION

The plant site is located at 941 New Bridge Drive, in the City of Kyle, Hays County, Texas 78640.

Outfall Location:

Outfall Number	Latitude	Longitude
001	29.968166 N	97.833019 W

The treated effluent is discharged directly to Plum Creek in Segment No. 1810 of the Guadalupe River Basin. The designated uses for Segment No. 1810 are primary contact recreation, aquifer protection, and high aquatic life use.

4. TREATMENT PROCESS DESCRIPTION AND SEWAGE SLUDGE DISPOSAL

The City of Kyle Wastewater Treatment Plant is an activated sludge process plant operated in the complete mix mode with nitrification. Treatment units in the Interim I phase include two bar screens, four lift stations, four aeration basins, four final clarifiers, two Wetwells, two post aeration basins, four aerobic sludge digestions, a mechanical dewatering, and two ultraviolet light (UV) disinfection system. Treatment units in Interim II phase will include two bar screens, four lift stations, six aeration basins, five final clarifiers, three Wetwell, two rapid mix basins, four cloth media filters, two post aeration basins, a mechanical dewatering, four aerobic sludge digestions and two UV disinfection system, Treatment unit in Interim III phase will include four bar screens, two grit removal, six lift stations, twelve aeration basins, eight final clarifiers, five Wetwells, four rapid nix basins, four cloth media filters, eight aerobic sludge digestions, a mechanical dewatering, and three UV disinfection system. Treatment unit in Final phase will include four bar screens, three grit removal, six influent lift stations, sixteen aeration basins, ten final clarifiers, six Wetwells, four rapid mix basins, four cloth media filters, ten post aeration basins, six aerobic sludge digestions, a mechanical dewatering, four effluent pump stations and four UV disinfection system. The facility is operating in the Interim I phase.

Sludge generated from the treatment facility is hauled by a registered transporter to Second Nature Compost LLC, Permit No. 42044, in Bexar County. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

5. INDUSTRIAL WASTE CONTRIBUTION

The draft permit includes pretreatment requirements that are appropriate for a facility of this size and complexity. The facility does not appear to receive significant industrial wastewater contributions. The WWTP receives process wastewater from two significant industrial users (SIUs). The process wastewater flow from the SIU contributes less than 0.3% of the WWTP's current maximum hydraulic capacity. The POTW has not experienced any instances of pass through or interference, therefore, at this time, the TCEQ is not requiring the permittee to develop a pretreatment program.

6. SUMMARY OF SELF-REPORTED EFFLUENT ANALYSES

The following is a summary of the applicant's effluent monitoring data for the period May 2023 through May 2025. The average of Daily Average value is computed by the averaging of all 30-day average values for the reporting period for each parameter: flow, five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), ammonia nitrogen (NH_3-N), and total phosphorus (TP). The average of Daily Average value for *Escherichia coli* (*E. coli*) in colony-forming units (CFU) or most probable number (MPN) per 100 ml is calculated via geometric mean.

Parameter	Average of Daily Avg
Flow, MGD	3.8
$CBOD_5$, mg/l	3.5
TSS, mg/l	2.0
NH_3-N, mg/l	0.14
E. coli, CFU or MPN per 100 ml	5.0

7. DRAFT PERMIT CONDITIONS AND MONITORING REQUIREMENTS

The effluent limitations and monitoring requirements for those parameters that are limited in the draft permit are as follows:

A. INTERIM I PHASE EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 4.5 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 12,500 gallons per minute (gpm).

Parameter	30-Day Average		7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l
$CBOD_5$	10	375	15	25
TSS	15	563	25	40
NH_3-N	2	75	5	10
DO (minimum)	5.0	N/A	N/A	N/A
E. coli, CFU or MPN per 100 ml	126	N/A	N/A	399

The pH shall not be less than 6.5 standard units nor greater than 9.0 standard units and shall be monitored once per week by grab sample. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

The permittee shall utilize an UV system for disinfection purposes. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

Parameter	Monitoring Requirement
Flow, MGD	Continuous
$CBOD_5$	Two/week
TSS	Two/week
NH_3-N	Two/week
DO	Two/week
E. coli	Daily

B. INTERIM II PHASE EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 6.0 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 16,667 gpm.

Parameter	30-Day Average		7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l
$CBOD_5$	7	350	15	22
TSS	12	601	20	40
NH_3-N	2	100	5	10

Total Phosphorus (P)	0.5	25	1	2
DO (minimum)	5.0	N/A	N/A	N/A
E. coli, CFU or MPN per 100 ml	126	N/A	N/A	399

The pH shall not be less than 6.5 standard units nor greater than 9.0 standard units and shall be monitored five times per week by grab sample. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

The permittee shall utilize an UV system for disinfection purposes. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

Parameter	Monitoring Requirement
Flow, MGD	Continuous
$CBOD_5$	Five/week
TSS	Five/week
NH_3-N	Five/week
Total P	Five/week
DO	Two/week
E. coli	Daily

C. INTERIM III PHASE EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 9.0 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 25,000 gpm.

Parameter	30-Day Average		7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l
$CBOD_5$	7	525	12	22
TSS	12	901	20	40
NH_3-N	2	150	5	10
Total Phosphorus	0.5	38	1	2
DO (minimum)	5.0	N/A	N/A	N/A
E. coli, CFU or MPN/100 ml	126	N/A	N/A	399

The pH shall not be less than 6.5 standard units nor greater than 9.0 standard units and shall be monitored five times per week by grab sample. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

The permittee shall utilize an UV system for disinfection purposes. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

Parameter	Monitoring Requirement
Flow, MGD	Continuous

$CBOD_5$	Five/Week
TSS	Five/Week
NH_3-N	Five/Week
Total P	Five/Week
DO	One/Day
E. coli	Daily

D. FINAL PHASE EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 12.0 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 33,333 gpm.

Parameter	30-Day Average		7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l
$CBOD_5$	5	500	10	20
TSS	5	500	10	20
NH_3-N	2	200	5	10
Total Phosphorus	0.5	50	1	2
DO (minimum)	5.0	N/A	N/A	N/A
E. coli, CFU or MPN/100 ml	126	N/A	N/A	399

The pH shall not be less than 6.5 standard units nor greater than 9.0 standard units and shall be monitored once per day by grab sample. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

The permittee shall utilize an UV system for disinfection purposes. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

Parameter	Monitoring Requirement
Flow, MGD	Continuous
$CBOD_5$	One/day
TSS	One/day
NH_3-N	One/day
Total P	One/day
DO	One/day
E. coli	Daily

E. SEWAGE SLUDGE REQUIREMENTS

The draft permit includes Sludge Provisions according to the requirements of 30 TAC Chapter 312, Sludge Use, Disposal, and Transportation. Sludge generated from the treatment facility is hauled by a registered transporter to Second Nature Compost LLC, MSW Registration No. 42044, in Bexar County. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

F. PRETREATMENT REQUIREMENTS

Permit requirements for pretreatment are based on TPDES regulations contained in 30 TAC Chapter 305, which references 40 Code of Federal Regulations (CFR) Part 403, "General Pretreatment Regulations for Existing and New Sources of Pollution" *[rev. Federal Register/ Vol. 70/ No. 198/ Friday, October 14, 2005/ Rules and Regulations, pages 60134-60798].* The permit includes specific requirements that establish responsibilities of local government, industry, and the public to implement the standards to control pollutants which pass through or interfere with treatment processes in publicly owned treatment works or which may contaminate the sewage sludge. This permit has appropriate pretreatment language for a facility of this size and complexity.

G. WHOLE EFFLUENT TOXICITY (BIOMONITORING) REQUIREMENTS

(1) The draft permit includes chronic freshwater biomonitoring requirements as follows. The permit requires five dilutions in addition to the control (0% effluent) to be used in the toxicity tests. These additional effluent concentrations shall be 32%, 42%, 56%, 75%, and 100%. The low-flow effluent concentration (critical dilution) is defined as 100% effluent. The critical dilution is in accordance with the "Aquatic Life Criteria" section of the "Water Quality Based Effluent Limitations/Conditions" section.

(a) Chronic static renewal survival and reproduction test using the water flea (*Ceriodaphnia dubia*). The frequency of the testing is once per quarter for at least the first year of testing, after which the permittee may apply for a testing frequency reduction.

(b) Chronic static renewal 7-day larval survival and growth test using the fathead minnow (*Pimephales promelas*). The frequency of the testing is once per quarter for at least the first year of testing, after which the permittee may apply for a testing frequency reduction.

(2) The draft permit includes the following minimum 24-hour acute freshwater biomonitoring requirements at a frequency of once per six months:

(a) Acute 24-hour static toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia*).

(b) Acute 24-hour static toxicity test using the fathead minnow (*Pimephales promelas*).

H. SUMMARY OF CHANGES FROM APPLICATION

None.

I. SUMMARY OF CHANGES FROM EXISTING PERMIT

The Standard Permit Conditions, Sludge Provisions, Other Requirements, and Biomonitoring sections of the draft permit have been updated.

An Interim II phase with an annual average flow of 6.0 MGD has been added to the draft permit.

Total Phosphorus limit of 0.5 mg/l has been added in the Interim II phase, based on recommendations by the WQ Standards Implementation Team.

The Two- hour period (2- hour peak) has been updated from 39,344 gallons per minute (gpm) to 33,333 gpm in the Final phase of draft permit.

Other Requirements No. 6, 7, and 8 have been updated in the draft permit.

8. DRAFT PERMIT RATIONALE

A. TECHNOLOGY-BASED EFFLUENT LIMITATIONS/CONDITIONS

Regulations promulgated in Title 40 of the CFR require that technology-based limitations be placed in wastewater discharge permits based on effluent limitations guidelines, where applicable, or on best professional judgment (BPJ) in the absence of guidelines.

Effluent limitations for maximum and minimum pH are in accordance with 40 CFR § 133.102(c) and 30 TAC § 309.1(b).

B. WATER QUALITY SUMMARY AND COASTAL MANAGEMENT PLAN

(1) WATER QUALITY SUMMARY

The treated effluent is discharged directly to Plum Creek in Segment No. 1810 of the Guadalupe River Basin. The designated uses for Segment No. 1810 are primary contact recreation, aquifer protection, and high aquatic life use. The effluent limitations in the draft permit will maintain and protect the existing instream uses. All determinations are preliminary and subject to additional review and/or revisions.

The discharge from this permit action is not expected to have an effect on any federal endangered or threatened aquatic or aquatic dependent species or proposed species or their critical habitat. This determination is based on the United States Fish and Wildlife Service's (USFWS) biological opinion on the State of Texas authorization of the Texas Pollutant Discharge Elimination System (TPDES; September 14, 1998; October 21, 1998 update). To make this determination for TPDES permits, TCEQ and EPA only considered aquatic or aquatic dependent species occurring in watersheds of critical concern or high priority as listed in Appendix A of the USFWS biological opinion. The determination is subject to reevaluation due to subsequent updates or amendments to the biological opinion. The permit does not require EPA review with respect to the presence of endangered or threatened species.

Segment No. 1810 is not currently listed on the State's inventory of impaired and threatened waters (the 2024 CWA § 303(d) list).

The effluent limitations and conditions in the draft permit comply with EPA-approved portions of the 2018 Texas Surface Water Quality Standards (TSWQS), 30 TAC §§ 307.1 - 307.10, effective March 1, 2018; 2014 TSWQS, effective March 6, 2014; 2010 TSWQS, effective July 22, 2010; and 2000 TSWQS, effective July 26, 2000.

(2) CONVENTIONAL PARAMETERS

Effluent limitations for the conventional effluent parameters (i.e., Five-Day Biochemical Oxygen Demand or Five-Day Carbonaceous Biochemical Oxygen Demand, Ammonia Nitrogen, etc.) are based on stream standards and waste load allocations for water quality-limited streams as established in the TSWQS and the State of Texas Water Quality Management Plan (WQMP).

The effluent limits recommended above have been reviewed for consistency with the State of Texas WQMP. The recommended limits are consistent with the approved WQMP.

The effluent limitations in the draft permit meet the requirements for secondary treatment and the requirements for disinfection according to 30 TAC Chapter 309, Subchapter A: Effluent Limitations.

(3) COASTAL MANAGEMENT PLAN

The facility is not located in the Coastal Management Program boundary.

C. WATER QUALITY-BASED EFFLUENT LIMITATIONS/CONDITIONS

(1) GENERAL COMMENTS

The Texas Surface Water Quality Standards (30 TAC Chapter 307) state that surface waters will not be toxic to man, or to terrestrial or aquatic life. The methodology outlined in the "Procedures to Implement the Texas Surface Water Quality Standards, June 2010" is designed to ensure compliance with 30 TAC Chapter 307. Specifically, the methodology is designed to ensure that no source will be allowed to discharge any wastewater that: (1) results in instream aquatic toxicity; (2) causes a violation of an applicable narrative or numerical state water quality standard; (3) results in the endangerment of a drinking water supply; or (4) results in aquatic bioaccumulation that threatens human health.

(2) AQUATIC LIFE CRITERIA

(a) SCREENING

Water quality-based effluent limitations are calculated from freshwater aquatic life criteria found in Table 1 of the Texas Surface Water Quality Standards (30 TAC Chapter 307).

Acute freshwater criteria are applied at the edge of the zone of initial dilution (ZID), and chronic freshwater criteria are applied at the edge of the aquatic life mixing zone. The ZID for this discharge is defined as 20 feet upstream and 60 feet downstream from the point where the discharge enters Plum Creek. The aquatic life mixing zone for this discharge is defined as 100 feet upstream and 300 feet downstream from the point where the discharge enters Plum Creek.

TCEQ uses the mass balance equation to estimate dilutions at the edges of the ZID and aquatic life mixing zone during critical conditions. The estimated dilution at the edge of the aquatic life mixing zone is calculated using the permitted flow of 12.0 MGD and the 7-day, 2-year (7Q2) flow of 0.1 cfs for Plum Creek. The estimated dilution at the edge of the ZID is calculated using the permitted flow of 12.0 MGD and 25% of the 7Q2 flow. The following critical effluent percentages are being used:

Acute Effluent %:	99.87%	Chronic Effluent %:	99.46%

Waste load allocations (WLAs) are calculated using the above estimated effluent percentages, criteria outlined in the Texas Surface Water Quality Standards, and partitioning coefficients for metals (when appropriate and designated in the implementation procedures). The WLA is the end-of-pipe effluent concentration that can be discharged when, after mixing in the receiving stream, instream numerical criteria will not be exceeded.

From the WLA, a long-term average (LTA) is calculated using a log normal probability distribution, a given coefficient of variation (0.6), and a 90th percentile confidence level. The LTA is the long-term average effluent concentration for which the WLA will never be exceeded using a selected percentile confidence level. The lower of the two LTAs (acute and chronic) is used to calculate a daily average and daily maximum effluent limitation for the protection of aquatic life using the same statistical considerations with the 99th percentile confidence level and a standard number of monthly effluent samples collected (12). Assumptions used in deriving the effluent limitations include segment values for hardness, chlorides, pH, and total suspended solids (TSS) according to the segment-specific values contained in the TCEQ guidance document "Procedures to Implement the Texas Surface Water Quality Standards." The segment values are 224 mg/l for hardness (as calcium carbonate), 126 mg/l chlorides, 7.6 standard units for pH, and 7.2 mg/l for TSS. For additional details on the calculation of water quality-based effluent limitations, refer to the TCEQ guidance document.

TCEQ practice for determining significant potential is to compare the reported analytical data against percentages of the calculated daily average water quality-based effluent limitation. Permit limitations are required when analytical data reported in the application exceeds 85% of the calculated daily average water quality-based effluent limitation. Monitoring and reporting is required when analytical data reported in the application exceeds 70% of the calculated daily average water quality-based effluent limitation. See Attachment A of this Fact Sheet.

(b) PERMIT ACTION

Reported analytical data does not exceed 70% of the calculated daily average water quality-based effluent limitations for aquatic life protection.

(3) AQUATIC ORGANISM BIOACCUMULATION CRITERIA

(a) SCREENING

Water quality-based effluent limitations for the protection of human health are calculated using criteria for the consumption of freshwater fish tissue found in Table 2 of the Texas Surface Water Quality Standards (30 TAC Chapter 307). Freshwater fish tissue bioaccumulation criteria are applied at the edge of the human health mixing zone. The human health mixing zone for this discharge is identical to the aquatic life mixing zone. TCEQ uses the mass balance equation to estimate dilution at the edge of the human health mixing zone during average flow conditions. The estimated dilution at the edge of the human health mixing zone is calculated using the permitted flow of 12.0 MGD and the harmonic mean flow of 0.2 cfs for Plum Creek. The following critical effluent percentage is being used:

Human Health Effluent %: 98.93%

Water quality-based effluent limitations for human health protection against the consumption of fish tissue are calculated using the same procedure as outlined for calculation of water quality-based effluent limitations for aquatic life protection. A 99th percentile confidence level in the long-term average calculation is used with only one long-term average value being calculated.

Significant potential is again determined by comparing reported analytical data against 70% and 85% of the calculated daily average water quality-based effluent limitation. See Attachment A of this Fact Sheet.

(b) PERMIT ACTION

Reported analytical data does not exceed 70% of the calculated daily average water quality-based effluent limitation for human health protection.

(4) DRINKING WATER SUPPLY PROTECTION

(a) SCREENING

Water Quality Segment No. 1810, which receives the discharge from this facility, is not designated as a public water supply. Screening reported

analytical data of the effluent against water quality-based effluent limitations calculated for the protection of a drinking water supply is not applicable.

(b) PERMIT ACTION

None.

(5) WHOLE EFFLUENT TOXICITY (BIOMONITORING) CRITERIA

(a) SCREENING

TCEQ has determined that there may be pollutants present in the effluent that may have the potential to cause toxic conditions in the receiving stream. Whole effluent biomonitoring is the most direct measure of potential toxicity that incorporates the effects of synergism of effluent components and receiving stream water quality characteristics. Biomonitoring of the effluent is, therefore, required as a condition of this permit to assess potential toxicity.

The existing permit includes chronic freshwater biomonitoring requirements. Since this is a minor amendment without renewal, no reasonable potential (RP) determination was made.

(b) PERMIT ACTION

The test species are appropriate to measure the toxicity of the effluent consistent with the requirements of the State water quality standards. The biomonitoring frequency has been established to reflect the likelihood of ambient toxicity and to provide data representative of the toxic potential of the facility's discharge. This permit may be reopened to require effluent limits, additional testing, and/or other appropriate actions to address toxicity if biomonitoring data show actual or potential ambient toxicity to be the result of the permittee's discharge to the receiving stream or water body.

(6) WHOLE EFFLUENT TOXICITY CRITERIA (24-HOUR ACUTE)

(a) SCREENING

The existing permit includes 24-hour acute freshwater biomonitoring language. Since this is a minor amendment without renewal, no reasonable potential (RP) determination was made.

(b) PERMIT ACTION

The draft permit includes 24-hour 100% acute biomonitoring tests for the life of the permit.

9. WATER QUALITY VARIANCE REQUESTS

No variance requests have been received.

10. PROCEDURES FOR FINAL DECISION

Once the draft permit is completed, it is sent to the Office of the Chief Clerk of the TCEQ. The Chief Clerk mails the Notice of Application and Preliminary Decision to any interested persons. This notice informs the public about the application, and provides that an interested person may file comments on the application or request a public meeting. The notice is also published in the Texas Register. This notice sets a deadline that is 30 days from the date this notice is mailed for making public comments or requesting a public meeting.

Any interested person may request a public meeting on the application until the deadline for filing public comments. A public meeting is intended for the taking of public comment, and is not a contested case proceeding. As this is a minor amendment, there is no right to a contested case hearing.

After the public comment deadline, the Executive Director prepares a response to all significant public comments on the application or the draft permit raised during the public comment period. The Chief Clerk then mails the Executive Director's response to comments and final decision to people who have filed comments or requested to be on the mailing list. If the Executive Director calls a public meeting, the Commission will give notice of the date, time, and place of the meeting.

For additional information about this application, contact Sumitra Pokharel at (512) 239-4722.

11. ADMINISTRATIVE RECORD

The following items were considered in developing the draft permit:

A. PERMIT(S)

TPDES Permit No. WQ0011041002 issued on February 5, 2025.

B. APPLICATION

Application received on June 26, 2025.

C. MEMORANDA

Interoffice Memoranda from the Water Quality Assessment Section of the TCEQ Water Quality Division. Interoffice Memorandum from the Pretreatment Team of the TCEQ Water Quality Division.

D. MISCELLANEOUS

Federal Clean Water Act § 402; Texas Water Code § 26.027; 30 TAC Chapters 30, 305, 309, 312, and 319; Commission policies; and U.S. Environmental Protection

Agency guidelines.

Texas Surface Water Quality Standards, 30 TAC §§ 307.1 - 307.10.

Procedures to Implement the Texas Surface Water Quality Standards (IP), Texas Commission on Environmental Quality, June 2010, as approved by the U.S. Environmental Protection Agency, and the IP, January 2003, for portions of the 2010 IP not approved by the U.S. Environmental Protection Agency.

Texas 2024 CWA § 303(d) List, Texas Commission on Environmental Quality, June 26, 2024; approved by the EPA on November 13, 2024.

Texas Natural Resource Conservation Commission, Guidance Document for Establishing Monitoring Frequencies for Domestic and Industrial Wastewater Discharge Permits, Document No. 98-001.000-OWR-WQ, May 1998.

Attachment A: Calculated Water Quality Based Effluent Limitations

TEXTOX MENU #3 - PERENNIAL STREAM OR RIVER

The water quality-based effluent limitations developed below are calculated using:

Table 1, 2014 Texas Surface Water Quality Standards (30 TAC 307) for Freshwater Aquatic Life
Table 2, 2018 Texas Surface Water Quality Standards for Human Health
"Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, June 2010

PERMIT INFORMATION

Permittee Name:	City of Kyle
TPDES Permit No.:	WQ0011041002
Outfall No.:	001
Prepared by:	Sumitra Pokharel
Date:	July 10, 2025

DISCHARGE INFORMATION

Receiving Waterbody:	Plum Creek
Segment No.:	1810
TSS (mg/L):	7.2
pH (Standard Units):	7.6
Hardness (mg/L as $CaCO_3$):	224
Chloride (mg/L):	126
Effluent Flow for Aquatic Life (MGD):	12
Critical Low Flow [7Q2] (cfs):	0.1
% Effluent for Chronic Aquatic Life (Mixing Zone):	99.46
% Effluent for Acute Aquatic Life (ZID):	99.87
Effluent Flow for Human Health (MGD):	12
Harmonic Mean Flow (cfs):	0.2
% Effluent for Human Health:	98.93
Human Health Criterion (select: PWS, FISH, or INC)	**FISH**

CALCULATE DISSOLVED FRACTION (AND ENTER WATER EFFECT RATIO IF APPLICABLE):

Stream/River Metal	*Intercept (b)*	*Slope (m)*	*Partition Coefficient (Kp)*	*Dissolved Fraction (Cd/Ct)*	*Source*	*Water Effect Ratio (WER)*	*Source*
Aluminum	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Arsenic	5.68	-0.73	113278.44	0.551		1.00	Assumed
Cadmium	6.60	-1.13	427773.90	0.245		1.00	Assumed
Chromium (total)	6.52	-0.93	528056.97	0.208		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	528056.97	0.208		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	242981.92	0.364		1.00	Assumed
Lead	6.45	-0.80	580943.64	0.193		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	158971.94	0.466		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	314012.93	0.307		1.00	Assumed
Zinc	6.10	-0.70	316131.12	0.305		1.00	Assumed

AQUATIC LIFE

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*FW Acute Criterion (µg/L)*	*FW Chronic Criterion (µg/L)*	*WLAa (µg/L)*	*WLAc (µg/L)*	*LTAa (µg/L)*	*LTAc (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*

Aldrin	3.0	N/A	3.00	N/A	1.72	N/A	2.53	5.35
Aluminum	991	N/A	992	N/A	569	N/A	835	1768
Arsenic	340	150	618	274	354	211	309	655
Cadmium	18.8	0.431	76.8	1.77	44.0	1.36	1.99	4.22
Carbaryl	2.0	N/A	2.00	N/A	1.15	N/A	1.68	3.56
Chlordane	2.4	0.004	2.40	0.00402	1.38	0.00310	0.00455	0.00963
Chlorpyrifos	0.083	0.041	0.0831	0.0412	0.0476	0.0317	0.0466	0.0987
Chromium (trivalent)	1103	143	5303	693	3039	533	784	1658
Chromium (hexavalent)	15.7	10.6	15.7	10.7	9.01	8.21	12.0	25.5
Copper	30.4	18.9	83.6	52.1	47.9	40.1	59.0	124
Cyanide (free)	45.8	10.7	45.9	10.8	26.3	8.28	12.1	25.7
4,4'-DDT	1.1	0.001	1.10	0.00101	0.631	0.000774	0.00113	0.00240
Demeton	N/A	0.1	N/A	0.101	N/A	0.0774	0.113	0.240
Diazinon	0.17	0.17	0.170	0.171	0.0975	0.132	0.143	0.303
Dicofol [Kelthane]	59.3	19.8	59.4	19.9	34.0	15.3	22.5	47.6
Dieldrin	0.24	0.002	0.240	0.00201	0.138	0.00155	0.00227	0.00481
Diuron	210	70	210	70.4	120	54.2	79.6	168
Endosulfan I (*alpha*)	0.22	0.056	0.220	0.0563	0.126	0.0434	0.0637	0.134
Endosulfan II (*beta*)	0.22	0.056	0.220	0.0563	0.126	0.0434	0.0637	0.134
Endosulfan sulfate	0.22	0.056	0.220	0.0563	0.126	0.0434	0.0637	0.134
Endrin	0.086	0.002	0.0861	0.00201	0.0493	0.00155	0.00227	0.00481
Guthion [Azinphos Methyl]	N/A	0.01	N/A	0.0101	N/A	0.00774	0.0113	0.0240
Heptachlor	0.52	0.004	0.521	0.00402	0.298	0.00310	0.00455	0.00963
Hexachlorocyclohexane (*gamma*) [Lindane]	1.126	0.08	1.13	0.0804	0.646	0.0619	0.0910	0.192
Lead	154	5.98	797	31.2	456	24.0	35.2	74.6
Malathion	N/A	0.01	N/A	0.0101	N/A	0.00774	0.0113	0.0240
Mercury	2.4	1.3	2.40	1.31	1.38	1.01	1.47	3.12
Methoxychlor	N/A	0.03	N/A	0.0302	N/A	0.0232	0.0341	0.0722
Mirex	N/A	0.001	N/A	0.00101	N/A	0.000774	0.00113	0.00240
Nickel	926	102.9	1989	222	1140	171	251	531
Nonylphenol	28	6.6	28.0	6.64	16.1	5.11	7.51	15.8
Parathion (ethyl)	0.065	0.013	0.0651	0.0131	0.0373	0.0101	0.0147	0.0312
Pentachlorophenol	15.9	12.2	16.0	12.3	9.15	9.47	13.4	28.4
Phenanthrene	30	30	30.0	30.2	17.2	23.2	25.3	53.5
Polychlorinated Biphenyls [PCBs]	2.0	0.014	2.00	0.0141	1.15	0.0108	0.0159	0.0337
Selenium	20	5	20.0	5.03	11.5	3.87	5.68	12.0
Silver	0.8	N/A	26.6	N/A	15.2	N/A	22.3	47.3
Toxaphene	0.78	0.0002	0.781	0.000201	0.448	0.000155	0.000227	0.00048 1
Tributyltin [TBT]	0.13	0.024	0.130	0.0241	0.0746	0.0186	0.0273	0.0577
2,4,5 Trichlorophenol	136	64	136	64.3	78.0	49.5	72.8	154
Zinc	232	234	761	771	436	593	641	1356

HUMAN HEALTH

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*Water and Fish Criterion (µg/L)*	*Fish Only Criterion (µg/L)*	*Incidental Fish Criterion (µg/L)*	*WLAh (µg/L)*	*LTAh (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Acrylonitrile	1.0	115	1150	116	108	158	336
Aldrin	1.146E-05	1.147E-05	1.147E-04	0.000011 6	0.000010 8	0.000015 8	0.000033 5
Anthracene	1109	1317	13170	1331	1238	1819	3850
Antimony	6	1071	10710	1083	1007	1479	3131
Arsenic	10	N/A	N/A	N/A	N/A	N/A	N/A
Barium	2000	N/A	N/A	N/A	N/A	N/A	N/A

Benzene	5	581	5810	587	546	802	1698
Benzidine	0.0015	0.107	1.07	0.108	0.101	0.147	0.312
Benzo(*a*)anthracene	0.024	0.025	0.25	0.0253	0.0235	0.0345	0.0730
Benzo(*a*)pyrene	0.0025	0.0025	0.025	0.00253	0.00235	0.00345	0.00730
Bis(chloromethyl)ether	0.0024	0.2745	2.745	0.277	0.258	0.379	0.802
Bis(2-chloroethyl)ether	0.60	42.83	428.3	43.3	40.3	59.1	125
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	6	7.55	75.5	7.63	7.10	10.4	22.0
Bromodichloromethane [Dichlorobromomethane]	10.2	275	2750	278	259	380	803
Bromoform [Tribromomethane]	66.9	1060	10600	1071	996	1464	3098
Cadmium	5	N/A	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	4.5	46	460	46.5	43.2	63.5	134
Chlordane	0.0025	0.0025	0.025	0.00253	0.00235	0.00345	0.00730
Chlorobenzene	100	2737	27370	2766	2573	3782	8001
Chlorodibromomethane [Dibromochloromethane]	7.5	183	1830	185	172	252	534
Chloroform [Trichloromethane]	70	7697	76970	7780	7235	10635	22501
Chromium (hexavalent)	62	502	5020	507	472	693	1467
Chrysene	2.45	2.52	25.2	2.55	2.37	3.48	7.36
Cresols [Methylphenols]	1041	9301	93010	9401	8743	12852	27191
Cyanide (free)	200	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.002	0.002	0.02	0.00202	0.00188	0.00276	0.00584
4,4'-DDE	0.00013	0.00013	0.0013	0.000131	0.000122	0.000179	0.000380
4,4'-DDT	0.0004	0.0004	0.004	0.000404	0.000376	0.000552	0.00116
2,4'-D	70	N/A	N/A	N/A	N/A	N/A	N/A
Danitol [Fenpropathrin]	262	473	4730	478	445	653	1382
1,2-Dibromoethane [Ethylene Dibromide]	0.17	4.24	42.4	4.29	3.99	5.85	12.3
m-Dichlorobenzene [1,3-Dichlorobenzene]	322	595	5950	601	559	822	1739
o-Dichlorobenzene [1,2-Dichlorobenzene]	600	3299	32990	3335	3101	4558	9644
p-Dichlorobenzene [1,4-Dichlorobenzene]	75	N/A	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	0.79	2.24	22.4	2.26	2.11	3.09	6.54
1,2-Dichloroethane	5	364	3640	368	342	502	1064
1,1-Dichloroethylene [1,1-Dichloroethene]	7	55114	551140	55708	51808	76157	161123
Dichloromethane [Methylene Chloride]	5	13333	133330	13477	12533	18423	38978
1,2-Dichloropropane	5	259	2590	262	243	357	757
1,3-Dichloropropene [1,3-Dichloropropylene]	2.8	119	1190	120	112	164	347
Dicofol [Kelthane]	0.30	0.30	3	0.303	0.282	0.414	0.877
Dieldrin	2.0E-05	2.0E-05	2.0E-04	0.0000202	0.0000188	0.0000276	0.0000584
2,4-Dimethylphenol	444	8436	84360	8527	7930	11657	24662
Di-*n*-Butyl Phthalate	88.9	92.4	924	93.4	86.9	127	270
Dioxins/Furans [TCDD Equivalents]	7.80E-08	7.97E-08	7.97E-07	8.06E-08	7.49E-08	1.10E-07	2.32E-07
Endrin	0.02	0.02	0.2	0.0202	0.0188	0.0276	0.0584
Epichlorohydrin	53.5	2013	20130	2035	1892	2781	5884
Ethylbenzene	700	1867	18670	1887	1755	2579	5458
Ethylene Glycol	46744	1.68E+07	1.68E+08	16980970	15792302	23214683	49114058
Fluoride	4000	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	8.0E-05	0.0001	0.001	0.000101	0.0000940	0.000138	0.000292
Heptachlor Epoxide	0.00029	0.00029	0.0029	0.000293	0.000273	0.000400	0.000847
Hexachlorobenzene	0.00068	0.00068	0.0068	0.000687	0.000639	0.000939	0.00198
Hexachlorobutadiene	0.21	0.22	2.2	0.222	0.207	0.304	0.643
Hexachlorocyclohexane (*alpha*)	0.0078	0.0084	0.084	0.00849	0.00790	0.0116	0.0245
Hexachlorocyclohexane (*beta*)	0.15	0.26	2.6	0.263	0.244	0.359	0.760
Hexachlorocyclohexane (*gamma*) [Lindane]	0.2	0.341	3.41	0.345	0.321	0.471	0.996
Hexachlorocyclopentadiene	10.7	11.6	116	11.7	10.9	16.0	33.9
Hexachloroethane	1.84	2.33	23.3	2.36	2.19	3.21	6.81

Hexachlorophene	2.05	2.90	29	2.93	2.73	4.00	8.47
4,4'-Isopropylidenediphenol	1092	15982	159820	16154	15023	22084	46722
Lead	1.15	3.83	38.3	20.1	18.7	27.4	58.0
Mercury	0.0122	0.0122	0.122	0.0123	0.0115	0.0168	0.0356
Methoxychlor	2.92	3.0	30	3.03	2.82	4.14	8.77
Methyl Ethyl Ketone	13865	9.92E+05	9.92E+06	1002686	932498	1370771	2900068
Methyl *tert*-butyl ether [MTBE]	15	10482	104820	10595	9853	14484	30643
Nickel	332	1140	11400	2471	2298	3378	7147
Nitrate-Nitrogen (as Total Nitrogen)	10000	N/A	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	45.7	1873	18730	1893	1761	2588	5475
N-Nitrosodiethylamine	0.0037	2.1	21	2.12	1.97	2.90	6.13
N-Nitroso-di-*n*-Butylamine	0.119	4.2	42	4.25	3.95	5.80	12.2
Pentachlorobenzene	0.348	0.355	3.55	0.359	0.334	0.490	1.03
Pentachlorophenol	0.22	0.29	2.9	0.293	0.273	0.400	0.847
Polychlorinated Biphenyls [PCBs]	6.4E-04	6.4E-04	6.40E-03	0.000647	0.000602	0.000884	0.00187
Pyridine	23	947	9470	957	890	1308	2768
Selenium	50	N/A	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.23	0.24	2.4	0.243	0.226	0.331	0.701
1,1,2,2-Tetrachloroethane	1.64	26.35	263.5	26.6	24.8	36.4	77.0
Tetrachloroethylene [Tetrachloroethylene]	5	280	2800	283	263	386	818
Thallium	0.12	0.23	2.3	0.232	0.216	0.317	0.672
Toluene	1000	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.011	0.011	0.11	0.0111	0.0103	0.0152	0.0321
2,4,5-TP [Silvex]	50	369	3690	373	347	509	1078
1,1,1-Trichloroethane	200	784354	7843540	792803	737307	1083841	2293024
1,1,2-Trichloroethane	5	166	1660	168	156	229	485
Trichloroethylene [Trichloroethene]	5	71.9	719	72.7	67.6	99.3	210
2,4,5-Trichlorophenol	1039	1867	18670	1887	1755	2579	5458
TTHM [Sum of Total Trihalomethanes]	80	N/A	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	0.23	16.5	165	16.7	15.5	22.8	48.2

CALCULATE 70% AND 85% OF DAILY AVERAGE EFFLUENT LIMITATIONS:

Aquatic Life	***70% of Daily Avg.***	***85% of Daily Avg.***
Parameter	***(µg/L)***	***(µg/L)***
Aldrin	1.77	2.15
Aluminum	585	710
Arsenic	216	263
Cadmium	1.39	1.69
Carbaryl	1.18	1.43
Chlordane	0.00318	0.00386
Chlorpyrifos	0.0326	0.0396
Chromium (trivalent)	548	666
Chromium (hexavalent)	8.44	10.2
Copper	41.3	50.1
Cyanide (free)	8.52	10.3
4,4'-DDT	0.000796	0.000967
Demeton	0.0796	0.0967
Diazinon	0.100	0.121
Dicofol [Kelthane]	15.7	19.1
Dieldrin	0.00159	0.00193
Diuron	55.7	67.7
Endosulfan I (*alpha*)	0.0446	0.0541
Endosulfan II (*beta*)	0.0446	0.0541

Endosulfan sulfate	0.0446	0.0541
Endrin	0.00159	0.00193
Guthion [Azinphos Methyl]	0.00796	0.00967
Heptachlor	0.00318	0.00386
Hexachlorocyclohexane (*gamma*) [Lindane]	0.0637	0.0773
Lead	24.6	29.9
Malathion	0.00796	0.00967
Mercury	1.03	1.25
Methoxychlor	0.0238	0.0290
Mirex	0.000796	0.000967
Nickel	175	213
Nonylphenol	5.25	6.38
Parathion (ethyl)	0.0103	0.0125
Pentachlorophenol	9.41	11.4
Phenanthrene	17.7	21.5
Polychlorinated Biphenyls [PCBs]	0.0111	0.0135
Selenium	3.98	4.83
Silver	15.6	19.0
Toxaphene	0.000159	0.000193
Tributyltin [TBT]	0.0191	0.0232
2,4,5 Trichlorophenol	50.9	61.9
Zinc	448	545

Human Health	***70% of Daily Avg.***	***85% of Daily Avg.***
Parameter	***(µg/L)***	***(µg/L)***
Acrylonitrile	111	135
Aldrin	0.0000110	0.0000134
Anthracene	1273	1546
Antimony	1035	1257
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	561	682
Benzidine	0.103	0.125
Benzo(*a*)anthracene	0.0241	0.0293
Benzo(*a*)pyrene	0.00241	0.00293
Bis(chloromethyl)ether	0.265	0.322
Bis(2-chloroethyl)ether	41.4	50.3
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	7.30	8.86
Bromodichloromethane [Dichlorobromomethane]	266	323
Bromoform [Tribromomethane]	1025	1245
Cadmium	N/A	N/A
Carbon Tetrachloride	44.4	54.0
Chlordane	0.00241	0.00293
Chlorobenzene	2647	3214
Chlorodibromomethane [Dibromochloromethane]	177	214
Chloroform [Trichloromethane]	7445	9040
Chromium (hexavalent)	485	589
Chrysene	2.43	2.95
Cresols [Methylphenols]	8996	10924
Cyanide (free)	N/A	N/A
4,4'-DDD	0.00193	0.00234
4,4'-DDE	0.000125	0.000152
4,4'-DDT	0.000386	0.000469

2,4'-D	N/A	N/A
Danitol [Fenpropathrin]	457	555
1,2-Dibromoethane [Ethylene Dibromide]	4.10	4.98
m-Dichlorobenzene [1,3-Dichlorobenzene]	575	698
o-Dichlorobenzene [1,2-Dichlorobenzene]	3191	3874
p-Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	2.16	2.63
1,2-Dichloroethane	352	427
1,1-Dichloroethylene [1,1-Dichloroethene]	53310	64734
Dichloromethane [Methylene Chloride]	12896	15660
1,2-Dichloropropane	250	304
1,3-Dichloropropene [1,3-Dichloropropylene]	115	139
Dicofol [Kelthane]	0.290	0.352
Dieldrin	0.0000193	0.0000234
2,4-Dimethylphenol	8159	9908
Di-*n*-Butyl Phthalate	89.3	108
Dioxins/Furans [TCDD Equivalents]	7.70E-08	9.36E-08
Endrin	0.0193	0.0234
Epichlorohydrin	1947	2364
Ethylbenzene	1805	2192
Ethylene Glycol	16250278	19732481
Fluoride	N/A	N/A
Heptachlor	0.0000967	0.000117
Heptachlor Epoxide	0.000280	0.000340
Hexachlorobenzene	0.000657	0.000798
Hexachlorobutadiene	0.212	0.258
Hexachlorocyclohexane (*alpha*)	0.00812	0.00986
Hexachlorocyclohexane (*beta*)	0.251	0.305
Hexachlorocyclohexane (*gamma*) [Lindane]	0.329	0.400
Hexachlorocyclopentadiene	11.2	13.6
Hexachloroethane	2.25	2.73
Hexachlorophene	2.80	3.40
4,4'-Isopropylidenediphenol	15459	18771
Lead	19.2	23.3
Mercury	0.0118	0.0143
Methoxychlor	2.90	3.52
Methyl Ethyl Ketone	959540	1165156
Methyl *tert*-butyl ether [MTBE]	10139	12311
Nickel	2364	2871
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	1811	2199
N-Nitrosodiethylamine	2.03	2.46
N-Nitroso-di-*n*-Butylamine	4.06	4.93
Pentachlorobenzene	0.343	0.416
Pentachlorophenol	0.280	0.340
Polychlorinated Biphenyls [PCBs]	0.000619	0.000751
Pyridine	916	1112
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.232	0.281
1,1,2,2-Tetrachloroethane	25.4	30.9
Tetrachloroethylene [Tetrachloroethylene]	270	328
Thallium	0.222	0.270
Toluene	N/A	N/A
Toxaphene	0.0106	0.0129

2,4,5-TP [Silvex]	356	433
1,1,1-Trichloroethane	758688	921264
1,1,2-Trichloroethane	160	194
Trichloroethylene [Trichloroethene]	69.5	84.4
2,4,5-Trichlorophenol	1805	2192
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	15.9	19.3

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

June 26, 2025

Re: Confirmation of Submission of the Minor Amendment without Renewal for Public Domestic Wastewater Authorization.

Dear Applicant:

This is an acknowledgement that you have successfully completed Minor Amendment without Renewal for the Public Domestic Wastewater authorization.

ER Account Number: ER110719
Application Reference Number: 795546
Authorization Number: WQ0011041002
Site Name: City of Kyle WWTP
Regulated Entity: RN102182680 - City of Kyle WWTP
Customer(s): CN600334510 - City of Kyle

Please be aware that TCEQ staff may contact your designated contact for any additional information.

If you have any questions, you may contact the Applications Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by telephone at (512) 239-4671.

Sincerely,
Applications Review and Processing Team
Water Quality Division

Texas Commission on Environmental Quality

Update Domestic or Industrial Individual Permit

WQ0011041002

Site Information (Regulated Entity)

What is the name of the site to be authorized?	CITY OF KYLE WWTP
Does the site have a physical address?	Yes
Physical Address	
Number and Street	941 NEW BRIDGE DR
City	KYLE
State	TX
ZIP	78640
County	HAYS
Latitude (N) (##.######)	29.967777
Longitude (W) (-###.######)	-97.835277
Primary SIC Code	4952
Secondary SIC Code	
Primary NAICS Code	
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	RN102182680
What is the name of the Regulated Entity (RE)?	CITY OF KYLE WWTP
Does the RE site have a physical address?	Yes
Physical Address	
Number and Street	941 NEW BRIDGE DR
City	KYLE
State	TX
ZIP	78640
County	HAYS
Latitude (N) (##.######)	29.967234
Longitude (W) (-###.######)	-97.837647
Facility NAICS Code	
What is the primary business of this entity?	DOMESTIC

City of-Customer (Applicant) Information (Owner)

How is this applicant associated with this site?	Owner
What is the applicant's Customer Number (CN)?	CN600334510
Type of Customer	City Government
Full legal name of the applicant:	
Legal Name	City of Kyle
Texas SOS Filing Number	
Federal Tax ID	
State Franchise Tax ID	
State Sales Tax ID	
Local Tax ID	

DUNS Number	
Number of Employees	
Independently Owned and Operated?	
I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas.	Yes
Responsible Authority Contact	
Organization Name	City of Kyle
Prefix	MR
First	Travis
Middle	
Last	Mitchell
Suffix	
Credentials	
Title	Mayor
Responsible Authority Mailing Address	
Enter new address or copy one from list:	RE Physical Address
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	941 NEW BRIDGE DR
Routing (such as Mail Code, Dept., or Attn:)	
City	KYLE
State	TX
ZIP	78640
Phone (###-###-####)	5122621010
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	tmitchell@cityofkyle.com

Billing Contact

Responsible contact for receiving billing statements:	
Select the permittee that is responsible for payment of the annual fee.	CN600334510, City of Kyle
Organization Name	CITY OF KYLE
Prefix	MR
First	PERWEZ
Middle	
Last	MOHEET
Suffix	
Credentials	CPA
Title	DIRECTOR OF FINANCE
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	100 W CENTER ST
Routing (such as Mail Code, Dept., or Attn:)	
City	KYLE
State	TX
ZIP	78640
Phone (###-###-####)	5122621010

Extension	3952
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	PMOHEET@CITYOFKYLE.COM

Application Contact

Person TCEQ should contact for questions about this application:	
Same as another contact?	
Organization Name	CITY OF KYLE
Prefix	MR
First	Robert
Middle	
Last	Defreitas
Suffix	
Credentials	
Title	Division Manager of Treatment Operations
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	520 E FM 150
Routing (such as Mail Code, Dept., or Attn:)	
City	KYLE
State	TX
ZIP	78640
Phone (###-###-####)	5122144564
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	rdefreitas@cityofkyle.com

Technical Contact

Person TCEQ should contact for questions about this application:	
Same as another contact?	
Organization Name	CITY OF KYLE
Prefix	MR
First	Robert
Middle	
Last	Defreitas
Suffix	
Credentials	
Title	DIVISION MANAGER OF TREATMENT OPERATIONS
Enter new address or copy one from list:	Application Contact Address
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	520 E FM 150

Routing (such as Mail Code, Dept., or Attn:)	
City	KYLE
State	TX
ZIP	78640
Phone (###-###-####)	5122144564
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	rdefreitas@cityofkyle.com

DMR Contact

Person responsible for submitting Discharge Monitoring Report Forms:

Same as another contact?	Technical Contact
Organization Name	CITY OF KYLE
Prefix	MR
First	Robert
Middle	
Last	Defreitas
Suffix	
Credentials	
Title	DIVISION MANAGER OF TREATMENT OPERATIONS
Enter new address or copy one from list:	

Mailing Address:

Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	520 E FM 150
Routing (such as Mail Code, Dept., or Attn:)	
City	KYLE
State	TX
ZIP	78640
Phone (###-###-####)	5122144564
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	rdefreitas@cityofkyle.com

Section 1# Permit Contact

Permit Contact#: 1

Person TCEQ should contact throughout the permit term.

1) Same as another contact?	Technical Contact
2) Organization Name	CITY OF KYLE
3) Prefix	MR
4) First	Robert
5) Middle	
6) Last	Defreitas
7) Suffix	

8) Credentials	
9) Title	DIVISION MANAGER OF TREATMENT OPERATIONS
Mailing Address	
10) Enter new address or copy one from list	
11) Address Type	Domestic
11.1) Mailing Address (include Suite or Bldg. here, if applicable)	520 E FM 150
11.2) Routing (such as Mail Code, Dept., or Attn:)	
11.3) City	KYLE
11.4) State	TX
11.5) ZIP	78640
12) Phone (###-###-####)	5122144564
13) Extension	
14) Alternate Phone (###-###-####)	
15) Fax (###-###-####)	
16) E-mail	rdefreitas@cityofkyle.com

Owner Information

Owner of Treatment Facility	
1) Prefix	
2) First and Last Name	
3) Organization Name	City of Kyle
4) Mailing Address	100 W. Center St.
5) City	Kyle
6) State	TX
7) Zip Code	78640
8) Phone (###-###-####)	5122621010
9) Extension	
10) Email	tmitchell@cityofkyle.com
11) What is ownership of the treatment facility?	Public
Owner of Land (where treatment facility is or will be)	
12) Prefix	
13) First and Last Name	
14) Organization Name	City of Kyle
15) Mailing Address	100 W. Center St.
16) City	Kyle
17) State	TX
18) Zip Code	78640
19) Phone (###-###-####)	5122621010
20) Extension	
21) Email	tmitchell@cityofkyle.com
22) Is the landowner the same person as the facility owner or co-applicant?	Yes

General Information Renewal-Amendment

1) Current authorization expiration date:	02/05/2028
2) Current Facility operational status:	Active

3) Is the facility located on or does the treated effluent cross American Indian Land?	No
4) What is the application type that you are seeking?	Minor Amendment without Renewal
4.1) Describe the proposed changes:	Add to permit an Interim Capacity of 6.0 MGD and correct the Final Phase Peak 2-hr Flow to 48.0 MGD 33,333 gpm.
5) Current Authorization type:	Public Domestic Wastewater
5.1) What is the proposed total flow in MGD discharged at the facility?	48
5.2) Select the applicable fee	Minor Amendment or Modification - $150
6) What is the classification for your authorization?	TPDES
6.1) What is the EPA Identification Number?	TX0119466
6.2) Is the wastewater treatment facility location in the existing permit accurate?	Yes
6.3) Are the point(s) of discharge and the discharge route(s) in the existing permit correct?	Yes
6.4) City nearest the outfall(s):	Kyle
6.5) County where the outfalls are located:	HAYS
6.6) Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch?	No
6.7) Is the daily average discharge at your facility of 5 MGD or more?	Yes
6.7.1) Provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge:	CALDWELL|DEWITT|GONZALES|HAYS|VICTORIA
7) Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?	No

Public Notice Information

Contact person to be listed in the Notices	
1) Prefix	MS
2) First and Last Name	Yvonne Gil-Vallejo
3) Credential	
4) Title	Project Manager
5) Organization Name	City of Kyle
6) Phone (###-###-####)	7372132328
7) Fax (###-###-####)	
8) Email	ygilvallejo@cityofkyle.com
Bilingual Notice Requirements	
9) Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?	Yes
9.1) Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?	Yes
9.2) Do the students at these schools attend a bilingual education program at another location?	Yes
9.3) Would the school be required to provide a bilingual education program but the school has waived out of this requirement under 19 TAC 89.1205(g)?	No
9.4) Which language is required by the bilingual program?	Spanish

Supplemental Permit Information Form

1) Supplemental Permit Information Form (SPIF)	

[File Properties]

File Name	SPIF_SPIF_061225.pdf
Hash	37CE32FE8626CE50035D71EBD7ACF7F186BBEB2DE6D30B9133AF0F423389FF49
MIME-Type	application/pdf

Domestic Attachments

1) Attach an 8.5"x11", reproduced portion of the most current and original USGS Topographic Quadrangle Map(s) that meets the 1:24,000 scale.

[File Properties]

File Name	MAP_USGS Map_061225.pdf
Hash	E33AEC9678C446446D1DCD51573C8737294369BA52642D411011F3281A5D1DFF
MIME-Type	application/pdf

2) I confirm that all required sections of Technical Report 1.0 are complete and will be included in the Technical Attachment.	Yes
2.1) I confirm that Worksheet 2.0 (Receiving Waters) is complete and included in the Technical Attachment.	Yes
2.2) Are you planning to include Worksheet 2.1 (Stream Physical Characteristics) in the Technical Attachment?	No
2.3) Are you planning to include Worksheet 4.0 (Pollutant Analyses Requirements) in the Technical Attachment?	No
2.4) Are you planning to include Worksheet 5.0 (Toxicity Testing Requirements) in the Technical Attachment?	No
2.5) I confirm that Worksheet 6.0 (Industrial Waste Contribution) is complete and included in the Technical Attachment.	Yes
2.6) Are you planning to include Worksheet 7.0 (Class V Injection Well Inventory/Authorization Form) in the Technical Attachment?	No

2.7) Technical Attachment

[File Properties]

File Name	TECH_Technical Report_061225.pdf
Hash	8656686DC0569CEFF0213F1F6D8E4727FDD8A30E247D26007C43E9234C22240A
MIME-Type	application/pdf

3) Buffer Zone Map

[File Properties]

File Name	BUFF_ZM_Buffer Zone Map_061225.pdf
Hash	E48C71729FEE1BFA4C826C39739AD6C3AC3F4F9932EBC040AF93D46BE0128CFC
MIME-Type	application/pdf

4) Flow Diagram

[File Properties]

File Name	FLDIA_Flow Diagram_061225.pdf
Hash	ACCB6C5131D9C13BBCAA061EDDA93CA5D5EC7498AE09A216E87E6892D82B4F85
MIME-Type	application/pdf

5) Site Drawing

[File Properties]

File Name	SITEDR_Site Plan_061225.pdf
Hash	535E365CD0A1DE338C19D4A46F13935D3C6DA4002E912B1CC53CB5806F4CECF2
MIME-Type	application/pdf

6) Design Calculations

[File Properties]

File Name	DES_CAL_Design Calculations.pdf
Hash	E680F9D8940B25A18C51B8D1E8A522DB6140A1E039D4F50BF211077EDB3EEB1B
MIME-Type	application/pdf

7) Solids Management Plan

8) Water Balance

9) Other Attachments

Certification

I certify that I am authorized under 30 Texas Administrative Code 305.44 to sign this document and can provide documentation in proof of such authorization upon request.

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 there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

1. I am Refugio Briones JR, the owner of the STEERS account ER114840.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcement of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing Update Domestic or Industrial Individual Permit WQ0011041002.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEQ.

OWNER Signature: Refugio Briones JR OWNER

Customer Number:	CN600334510
Legal Name:	City of Kyle
Account Number:	ER114840
Signature IP Address:	24.227.210.11
Signature Date:	2025-06-26
Signature Hash:	40138270ECD7198884C9D608BD52CBA2801A92444F2D121DF877A2CD30426B21
Form Hash Code at time of Signature:	452D673C16353B38BB397BDDD88893461E49467247B8153AB4A0E0A7260E9A34

Fee Payment

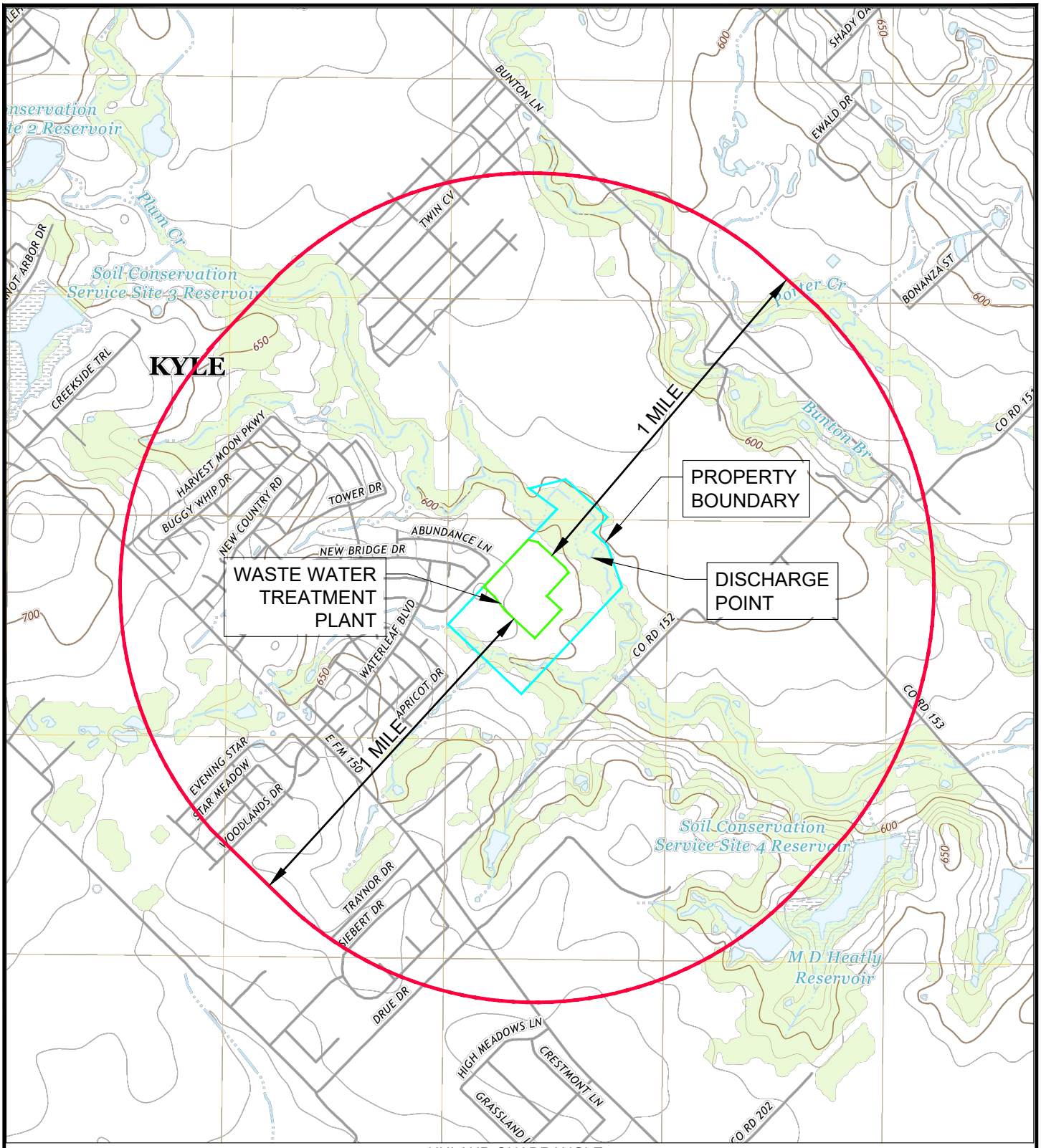
Transaction by:	The application fee payment transaction was made by ER110719/Dawn R Anderson
Paid by:	The application fee was paid by DAWN ANDERSON
Fee Amount:	$100.00
Paid Date:	The application fee was paid on 2025-06-26
Transaction/Voucher number:	The transaction number is 582EA000674044 and the voucher number is 772602

Submission

Reference Number:	The application reference number is 795546
Submitted by:	The application was submitted by ER110719/Dawn R Anderson
Submitted Timestamp:	The application was submitted on 2025-06-26 at 14:13:04 CDT
Submitted From:	The application was submitted from IP address 147.160.200.185
Confirmation Number:	The confirmation number is 661253
Steers Version:	The STEERS version is 6.91
Permit Number:	The permit number is WQ0011041002

Additional Information

Application Creator: This account was created by Dawn R Anderson



UHLAND QUADRANGLE
TEXAS
7.5-MINUTE SERIES
1:24,000

LEGEND:

FACILITY BOUNDARY

PROPERTY LINE

1 MILE BUFFER

CITY OF KYLE WASTE WATER TREATMENT PLANT EXPANSION PERMIT AMENDMENTS

USGS MAP & ONE MILE BUFFER ZONE

MAY 2025

TEXAS REGISTERED ENGINEERING FIRM
TBPE F-1741

ATTACHMENT
3

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: _____Renewal _____Major Amendment _____Minor Amendment _____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

_____ Texas Historical Commission _____ U.S. Fish and Wildlife

_____ Texas Parks and Wildlife Department _____ U.S. Army Corps of Engineers

This form applies to TPDES permit applications only. (Instructions, Page 53)

Complete this form as a separate document. TCEQ will mail a copy to each agency as required by our agreement with EPA. If any of the items are not completely addressed or further information is needed, we will contact you to provide the information before issuing the permit. Address each item completely.

Do not refer to your response to any item in the permit application form. Provide each attachment for this form separately from the Administrative Report of the application. The application will not be declared administratively complete without this SPIF form being completed in its entirety including all attachments. Questions or comments concerning this form may be directed to the Water Quality Division's Application Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by phone at (512) 239-4671.

The following applies to all applications:

1. Permittee: City of Kyle

   Permit No. WQ00 11041002 EPA ID No. TX 0119466

   Address of the project (or a location description that includes street/highway, city/vicinity, and county):

   Located at 941 New Bridge Drive, Kyle, approximately 2.7 miles northwest of the intersection of State Route 21 and Farm to Market Road 2720, in Hays County, Texas 78640.

Provide the name, address, phone and fax number of an individual that can be contacted to answer specific questions about the property.

Prefix (Mr., Ms., Miss): Mr.

First and Last Name: Timothy Samford

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: Division Manager of Treatment Operations

Mailing Address: 100 W. Center St.

City, State, Zip Code: Kyle, Texas 78640

Phone No.: (512) 262-3024 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: tsamford@cityofkyle.com

2. List the county in which the facility is located: Hays

3. If the property is publicly owned and the owner is different than the permittee/applicant, please list the owner of the property.

N/A

4. Provide a description of the effluent discharge route. The discharge route must follow the flow of effluent from the point of discharge to the nearest major watercourse (from the point of discharge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify the classified segment number.

From the plant site through pipping into Plum Creek (Segment 1810 of the Guadalupe Basin).

5. Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report).

Provide original photographs of any structures 50 years or older on the property.

Does your project involve any of the following? Check all that apply.

- ☒ Proposed access roads, utility lines, construction easements
- ☐ Visual effects that could damage or detract from a historic property's integrity
- ☐ Vibration effects during construction or as a result of project design
- ☒ Additional phases of development that are planned for the future
- ☐ Sealing caves, fractures, sinkholes, other karst features

☐ Disturbance of vegetation or wetlands

1. List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features):

The future expansions will be constructed within the existing plant site property boundary. Depths of excavation will be determined at the time of expansion design.

2. Describe existing disturbances, vegetation, and land use:

First package plant installed at the plant site in 2001. The plant site has been continuously used for wastewater treatment since then with periodic addition of treatment units as the flows increased. Landscaped areas in and around the plant, natural and planted vegetation.

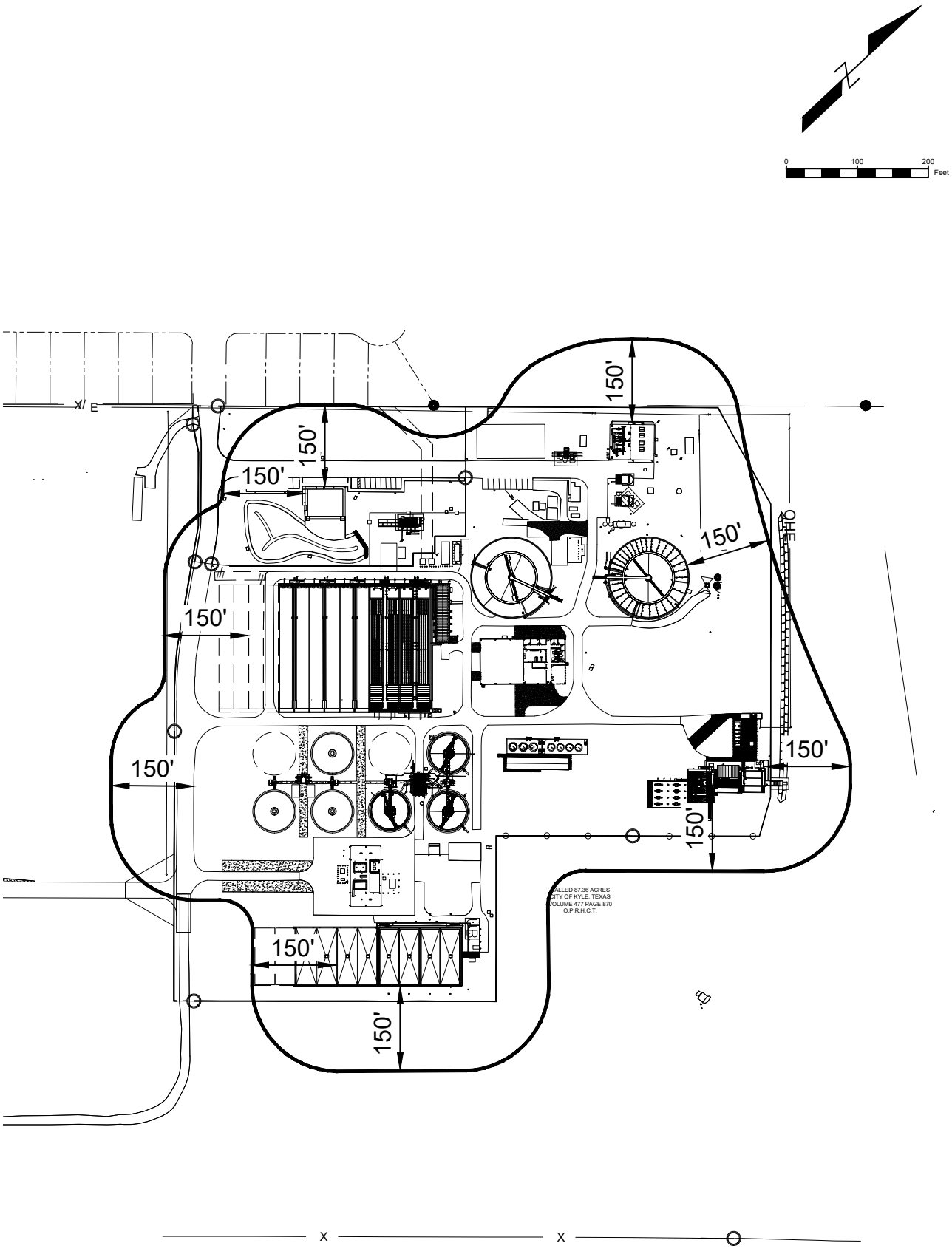
THE FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR AMENDMENTS TO TPDES PERMITS

3. List construction dates of all buildings and structures on the property:

N/A

4. Provide a brief history of the property, and name of the architect/builder, if known.

N/A



CITY OF KYLE WASTE WATER TREATMENT PLANT EXPANSION PERMIT AMENDMENTS

OVERALL SITE PLAN

MAY 2025

TEXAS REGISTERED ENGINEERING FIRM
TBPE F-1741

ATTACHMENT

4

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

For any questions about this form, please contact the Domestic Wastewater Permitting Team at 512-239-4671.

The following information is required for all renewal, new, and amendment applications.

Section 1. Permitted or Proposed Flows (Instructions Page 43)

A. Existing/Interim I Phase

Design Flow (MGD): 4.5

2-Hr Peak Flow (MGD): 18.0

Estimated construction start date: March 2022

Estimated waste disposal start date: March 2023

B. Interim II Phase

Design Flow (MGD): 6.0

2-Hr Peak Flow (MGD): 24.0

Estimated construction start date: October 2025

Estimated waste disposal start date: October 2026

C. Interim III Phase

Design Flow (MGD): 9.0

2-Hr Peak Flow (MGD): 36

Estimated construction start date: May 2026

Estimated waste disposal start date: June 2028

D. Final Phase

Design Flow (MGD): 12

2-Hr Peak Flow (MGD): 48

Estimated construction start date: 2030

Estimated waste disposal start date: 2032

E. Current Operating Phase

Provide the startup date of the facility: 3.0 MGD phase in service 2006, 4.5 MGD expanded phase in service March 2022

Section 2. Treatment Process (Instructions Page 43)

A. Current Operating Phase

Provide a detailed description of the treatment process. **Include the type of treatment plant, mode of operation, and all treatment units.** Start with the plant's head works and finish with the point of discharge. Include all sludge processing and drying units. **If more than one phase exists or is proposed, a description of *each phase* must be provided**.

Existing/Interim I Phase: The wastewater treatment plant consists of mechanical fine screens, influent pumping, conventional activated sludge treatment, clarification, UV disinfection, post aeration and aerobic digestion for the solids. The activated sludge treatment is split in two plants. The first plant consists of two circular bullseye package treatment units. The second plant consists of rectangular conventional activated sludge aeration basins with two secondary clarifiers. The treated effluent is discharged via pipeline into Plum Creek. The aerobically digested sludge is mechanically dewatered and transported by K-3BMI to Second Nature.

Interim II Phase: The expansion will incorporate unit processes to increase the hydraulic capacity of the treatment plant and to implement chemical phosphorus removal. The expansion will include the addition of two conventional activated sludge aeration basins, an additional secondary clarifier, a new rapid mix basin and aluminum sulfate chemical system, the construction of four new cloth media filters, installation of two additional UV disinfection banks. The treated effluent is discharged via pipeline into Plum Creek. The solids handling process will remain the same.

Interim III Phase: The expansion will incorporate same unit processes to increase the hydraulic capacity of the treatment plant and will implement grit removal and odor control. The expansion will include adding two mechanical screen units, two new influent pumps, construction of a new grit building and the addition of 2 new stacked tray grit removal units, the addition of sodium hydroxide for supplemental alkalinity and odor control. The expansion also includes six new activated sludge basins designed for biological phosphorus removal along with the retrofit of the four existing aeration basins to incorporate biological phosphorus removal, three new secondary clarifiers, expansion of the rapid mix capacity and the post-aeration channels. The treated effluent is discharged via pipeline into Plum Creek with intermittent pumping, if needed, during flood events. The expansion will construct four new aerobic digesters and continue to mechanically dewater and have K-3BMI transport to Second Nature.

Final Phase: The final expansion will maintain the same unit processes as the existing phase. The expansion will include replacing four of the existing influent pumps to increase capacity, the addition of a third stacked tray grit removal unit, construction of four new activated sludge basins designed for biological phosphorus removal, construction of 2 new secondary clarifiers, and the expansion of the UV disinfection system. The treated effluent will be discharged via gravity or intermittent effluent pumps with intermittent pumping, if needed, during flood events into Plum Creek. The solids handling will be expanded with the addition of two 2 new aerobic digesters.

B. Treatment Units

In Table 1.0(1), provide the treatment unit type, the number of units, and dimensions (length, width, depth) **of each treatment unit, accounting for *all* phases of operation.**

Table 1.0(1) - Treatment Units

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
EXISTING/INTERIM I PHASE		
Screening	2	36 ft x 4 ft x 26 ft per channel
Influent Lift Station	4	6.0 MGD, each pump
Aeration Basins	2	214 ft x 25 ft x 15 ft
Bullseye Aeration (Volume)	2	146,903 cu.ft.

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Secondary Clarifiers (Circular)	2	70 ft Diam x 15 ft Depth
Bullseye Clarifier (Circular)	2	86 ft Diam x 15 ft Depth
RAS/WAS Wetwell	1	11 ft x 22 ft x 9 ft
Scum Wetwell	1	7 ft x 7 ft x 7 ft
UV Disinfection	2	38 ft x 4 ft x 6 ft
Post Aeration	2	30 ft x 12 ft x 12 ft
Aerobic Digestion	4	100 ft x 35 ft x 18 ft
Mechanical Dewatering	1	3.0-Meter BFP
INTERIM II PHASE		
Screening	2	36 ft x 4 ft x 26 ft per channel
Influent Lift Station	4 plus onsite backup	6.0 MGD per pump
Aeration Basins	4	214 ft x 25 ft x 15 ft
Bullseye Aeration (Volume)	2	146,903 cu.ft.
Secondary Clarifiers (Circular)	3	70 ft Diam x 15 ft Depth
Bullseye Clarifier (Circular)	2	86 ft Diam x 15 ft Depth
RAS/WAS Wetwell	1	11 ft x 22 ft x 9 ft
Scum Wetwell	2	7 ft x 7 ft x 7 ft
Rapid Mix Basin	2	70 ft x 11 ft x 14.5 ft
Cloth Media Filters	4	16 ft x 30ft x 14.5 ft
UV Disinfection	2	38 ft x 4 ft x 6 ft
Post Aeration	2	30 ft x 12 ft x 12 ft
Aerobic Digestion	4	100 ft x 35 ft x 18 ft
Mechanical Dewatering	1	3.0-Meter BFP
INTERIM III PHASE		
Screening	4	36 ft x 4 ft x 26 ft per channel
Influent Lift Station	6	4-6.0 MGD, 2-8.0 MGD
Grit Removal	2	12 ft Diam x 20.5 ft Height
Aeration Basins	10	214 ft x 25 ft x 15 ft
Bullseye Aeration (Volume)	2	146,903 cu.ft.
Secondary Clarifiers (Circular)	6	70 ft Diam x 15 ft Depth
Bullseye Clarifier (Circular)	2	86 ft Diam x 15 ft Depth
RAS/WAS Wetwell	2	11 ft x 22 ft x 9 ft

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Scum Wetwell	3	7 ft x 7 ft x 7 ft
Rapid Mix Basin	4	70 ft x 11 ft x 14.5 ft
Cloth Media Filters	4	16 ft x 30ft x 14.5 ft
UV Disinfection	3	38 ft x 4 ft x 6 ft
Post Aeration Intermittent Effluent Pumping, if necessary (36.0 MGD)	3	30 ft x 12 ft x 12 ft
Aerobic Digestion	8	100 ft x 35 ft x 18 ft
Mechanical Dewatering	1	3.0-Meter BFP
FINAL PHASE		
Screening	4	36 ft x 4 ft x 26 ft per channel
Influent Lift Station	6	8.0 MGD, each pump
Grit Removal	3	12 ft Diam x 20.5 ft Height
Aeration Basins	14	214 ft x 25 ft x 15 ft
Bullseye Aeration (Volume)	2	146,903 cu.ft.
Secondary Clarifiers (Circular)	8	70 ft Diam x 15 ft Depth
Bullseye Clarifier (Circular)	2	86 ft Diam x 15 ft Depth
RAS/WAS Wetwell	2	11 ft x 22 ft x 9 ft
Scum Wetwell	4	7 ft x 7 ft x 7 ft
Rapid Mix Basin	4	70 ft x 11 ft x 14.5 ft
Cloth Media Filters	4	16 ft x 30ft x 14.5 ft
UV Disinfection	4	38 ft x 4 ft x 6 ft
Post Aeration	10	30 ft x 12 ft x 12 ft
Intermittent Effluent Pump Station	4	16.0 MGD, each pump
Aerobic Digestion	6	100 ft x 35 ft x 18 ft
Mechanical Dewatering	1	3.0-Meter BFP

C. Process Flow Diagram

Provide flow diagrams for the existing facilities and **each** proposed phase of construction.

Attachment: Attachment 6: Process Flow Diagram

Section 3. Site Information and Drawing (Instructions Page 44)

Provide the TPDES discharge outfall latitude and longitude. Enter N/A if not applicable.

- Latitude: 29.96777778
- Longitude: -97.83527778

Provide the TLAP disposal site latitude and longitude. Enter N/A if not applicable.

- Latitude: N/A
- Longitude: N/A

Provide a site drawing for the facility that shows the following:

- The boundaries of the treatment facility;
- The boundaries of the area served by the treatment facility;
- If land disposal of effluent, the boundaries of the disposal site and all storage/holding ponds; and
- If sludge disposal is authorized in the permit, the boundaries of the land application or disposal site.

Attachment: Attachment 7: Site Drawing

Provide the name **and** a description of the area served by the treatment facility.

City of Kyle, CCN Service Area 20410

Collection System Information **for wastewater TPDES permits only**: Provide information for each **uniquely owned** collection system, existing and new, served by this facility, including satellite collection systems. **Please see the instructions for a detailed explanation and examples.**

Collection System Information

Collection System Name	Owner Name	Owner Type	Population Served
Kyle Wastewater Collection System	City of Kyle	Publicly Owned	130,000
		Choose an item.	
		Choose an item.	
		Choose an item.	

Section 4. Unbuilt Phases (Instructions Page 45)

Is the application for a renewal of a permit that contains an unbuilt phase or phases?

☐ Yes ☒ No

If yes, does the existing permit contain a phase that has not been constructed **within five years** of being authorized by the TCEQ?

☐ Yes ☐ No

If yes, provide a detailed discussion regarding the continued need for the unbuilt phase. **Failure to provide sufficient justification may result in the Executive Director recommending denial of the unbuilt phase or phases**.

N/A

Section 5. Closure Plans (Instructions Page 45)

Have any treatment units been taken out of service permanently, or will any units be taken out of service in the next five years?

☐ Yes ☒ No

If yes, was a closure plan submitted to the TCEQ?

☐ Yes ☐ No

If yes, provide a brief description of the closure and the date of plan approval.

N/A

Section 6. Permit Specific Requirements (Instructions Page 45)

For applicants with an existing permit, check the Other Requirements or Special Provisions of the permit.

A. Summary transmittal

Have plans and specifications been approved for the existing facilities and each proposed phase?

☒ Yes ☐ No

If yes, provide the date(s) of approval for each phase: January 30, 2022

Provide information, including dates, on any actions taken to meet a *requirement or provision* pertaining to the submission of a summary transmittal letter. **Provide a copy of an approval letter from the TCEQ, if applicable**.

A summary transmittal approval letter for Interim I phase, dated January 30, 2022, is available at the plant. Summary transmittal letters for the interim and final phases will be submitted for TCEQ approval following design, as required.

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

Provide information below, including dates, on any actions taken to meet the conditions of the buffer zone. If available, provide any new documentation relevant to maintaining the buffer zones.

Attachment 4: Buffer Zone Map

C. Other actions required by the current permit

Does the *Other Requirements* or *Special Provisions* section in the existing permit require submission of any other information or other required actions? Examples include Notification of Completion, progress reports, soil monitoring data, etc.

☒ Yes ☐ No

If yes, provide information below on the status of any actions taken to meet the conditions of an *Other Requirement* or *Special Provision*.

N/A at this time. Following design of the interim and final phases, summary transmittal letters will be submitted as required. Prior to the completion of construction of the interim and final phases Notification of Completion forms will be submitted as required.

D. Grit and grease treatment

1. Acceptance of grit and grease waste

Does the facility have a grit and/or grease processing facility onsite that treats and decants or accepts transported loads of grit and grease waste that are discharged directly to the wastewater treatment plant prior to any treatment?

☐ Yes ☒ No

If No, stop here and continue with Subsection E. Stormwater Management.

2. Grit and grease processing

Describe below how the grit and grease waste is treated at the facility. In your description, include how and where the grit and grease is introduced to the treatment works and how it is separated or processed. Provide a flow diagram showing how grit and grease is processed at the facility.

Click to enter text.

3. *Grit disposal*

Does the facility have a Municipal Solid Waste (MSW) registration or permit for grit disposal?

☐ Yes ☒ No

If No, contact the TCEQ Municipal Solid Waste team at 512-239-2335. Note: A registration or permit is required for grit disposal. Grit shall not be combined with treatment plant sludge. See the instruction booklet for additional information on grit disposal requirements and restrictions.

Describe the method of grit disposal.

Click to enter text.

4. *Grease and decanted liquid disposal*

Note: A registration or permit is required for grease disposal. Grease shall not be combined with treatment plant sludge. For more information, contact the TCEQ Municipal Solid Waste team at 512-239-2335.

Describe how the decant and grease are treated and disposed of after grit separation.

Click to enter text.

E. Stormwater management

1. *Applicability*

Does the facility have a design flow of 1.0 MGD or greater in any phase?

☒ Yes ☐ No

Does the facility have an approved pretreatment program, under 40 CFR Part 403?

☐ Yes ☒ No

If no to both of the above, then skip to Subsection F, Other Wastes Received.

2. MSGP coverage

Is the stormwater runoff from the WWTP and dedicated lands for sewage disposal currently permitted under the TPDES Multi-Sector General Permit (MSGP), TXR050000?

☐ Yes ☒ No

If yes, please provide MSGP Authorization Number and skip to Subsection F, Other Wastes Received:

TXR05 DE30 or TXRNE Click to enter text.

If no, do you intend to seek coverage under TXR050000?

☐ Yes ☒ No

3. Conditional exclusion

Alternatively, do you intend to apply for a conditional exclusion from permitting based TXR050000 (Multi Sector General Permit) Part II B.2 or TXR050000 (Multi Sector General Permit) Part V, Sector T 3(b)?

☐ Yes ☒ No

If yes, please explain below then proceed to Subsection F, Other Wastes Received:

Click to enter text.

4. Existing coverage in individual permit

Is your stormwater discharge currently permitted through this individual TPDES or TLAP permit?

☐ Yes ☒ No

If yes, provide a description of stormwater runoff management practices at the site that are authorized in the wastewater permit then skip to Subsection F, Other Wastes Received.

Click to enter text.

5. Zero stormwater discharge

Do you intend to have no discharge of stormwater via use of evaporation or other means?

☐ Yes ☒ No

If yes, explain below then skip to Subsection F. Other Wastes Received.

Click to enter text.

Note: If there is a potential to discharge any stormwater to surface water in the state as the result of any storm event, then permit coverage is required under the MSGP or an individual discharge permit. This requirement applies to all areas of facilities with treatment plants or systems that treat, store, recycle, or reclaim domestic sewage, wastewater or sewage sludge (including dedicated lands for sewage sludge disposal located within the onsite property boundaries) that meet the applicability criteria of above. You have the option of obtaining coverage under the MSGP for direct discharges, (recommended), or obtaining coverage under this individual permit.

6. Request for coverage in individual permit

Are you requesting coverage of stormwater discharges associated with your treatment plant under this individual permit?

☐ Yes ☒ No

If yes, provide a description of stormwater runoff management practices at the site for which you are requesting authorization in this individual wastewater permit and describe whether you intend to comingle this discharge with your treated effluent or discharge it via a separate dedicated stormwater outfall. Please also indicate if you intend to divert stormwater to the treatment plant headworks and indirectly discharge it to water in the state.

City of Kyle has an individual industrial stormwater permit for the plant site, WQ0005393000.

Note: Direct stormwater discharges to waters in the state authorized through this individual permit will require the development and implementation of a stormwater pollution prevention plan (SWPPP) and will be subject to additional monitoring and reporting requirements. Indirect discharges of stormwater via headworks recycling will require compliance with all individual permit requirements including 2-hour peak flow limitations. All stormwater discharge authorization requests will require additional information during the technical review of your application.

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

If yes, attach a Sewage Sludge Solids Management Plan. See Example 5 in the instructions.
Click to enter text.

G. Other wastes received including sludge from other WWTPs and septic waste

1. Acceptance of sludge from other WWTPs

Does or will the facility accept sludge from other treatment plants at the facility site?

☐ Yes ☒ No

If yes, attach sewage sludge solids management plan. See Example 5 of instructions.

In addition, provide the date the plant started or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an estimate of the BOD_5 concentration of the sludge, and the design BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

Click to enter text.

Note: Permits that accept sludge from other wastewater treatment plants may be required to have influent flow and organic loading monitoring.

2. ***Acceptance of septic waste***

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

If yes, does the facility have a Type V processing unit?

☐ Yes ☒ No

If yes, does the unit have a Municipal Solid Waste permit?

☐ Yes ☒ No

If yes to any of the above, provide the date the plant started or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the BOD_5 concentration of the septic waste, and the design BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

Click to enter text.

Note: Permits that accept sludge from other wastewater treatment plants may be required to have influent flow and organic loading monitoring.

3. ***Acceptance of other wastes (not including septic, grease, grit, or RCRA, CERCLA or as discharged by IUs listed in Worksheet 6)***

Is or will the facility accept wastes that are not domestic in nature excluding the categories listed above?

☐ Yes ☒ No

If yes, provide the date that the plant started accepting the waste, an estimate how much waste is accepted on a monthly basis (gallons or millions of gallons), a description of the entities generating the waste, and any distinguishing chemical or other physical characteristic of the waste. Also note if this information has or has not changed since the last permit action.

Click to enter text.

Section 7. Pollutant Analysis of Treated Effluent (Instructions Page 50)

Is the facility in operation?

☒ Yes ☐ No

If no, this section is not applicable. Proceed to Section 8.

If yes, provide effluent analysis data for the listed pollutants. ***Wastewater treatment facilities*** complete Table 1.0(2). **W*ater treatment facilities*** discharging filter backwash water, complete Table 1.0(3). Provide copies of the laboratory results sheets. **These tables are not applicable for a minor amendment without renewal.** See the instructions for guidance.

Note: The sample date must be within 1 year of application submission.

Table1.0(2) – Pollutant Analysis for Wastewater Treatment Facilities

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l					
Total Suspended Solids, mg/l					
Ammonia Nitrogen, mg/l					
Nitrate Nitrogen, mg/l					
Total Kjeldahl Nitrogen, mg/l					
Sulfate, mg/l					
Chloride, mg/l					
Total Phosphorus, mg/l					
pH, standard units					
Dissolved Oxygen*, mg/l					
Chlorine Residual, mg/l					
E.coli (CFU/100ml) freshwater					
Entercocci (CFU/100ml) saltwater					
Total Dissolved Solids, mg/l					
Electrical Conductivity, µmohs/cm, †					
Oil & Grease, mg/l					
Alkalinity ($CaCO_3$)*, mg/l					

*TPDES permits only
†TLAP permits only

Table1.0(3) – Pollutant Analysis for Water Treatment Facilities

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Total Suspended Solids, mg/l					
Total Dissolved Solids, mg/l					
pH, standard units					

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Fluoride, mg/l					
Aluminum, mg/l					
Alkalinity ($CaCO_3$), mg/l					

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Robert Defreitas

Facility Operator's License Classification and Level: Wastewater Treatment Operator "A"

Facility Operator's License Number: WW0007573

Section 9. Sludge and Biosolids Management and Disposal (Instructions Page 51)

A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

- ☒ Design flow>= 1 MGD
- ☒ Serves >= 10,000 people
- ☐ Class I Sludge Management Facility (per 40 CFR § 503.9)
- ☐ Biosolids generator
- ☐ Biosolids end user – land application (onsite)
- ☐ Biosolids end user – surface disposal (onsite)
- ☐ Biosolids end user – incinerator (onsite)

B. WWTP's Biosolids Treatment Process

Check all that apply. See instructions for guidance.

- ☒ Aerobic Digestion
- ☐ Air Drying (or sludge drying beds)
- ☐ Lower Temperature Composting
- ☐ Lime Stabilization
- ☐ Higher Temperature Composting
- ☐ Heat Drying
- ☐ Thermophilic Aerobic Digestion
- ☐ Beta Ray Irradiation
- ☐ Gamma Ray Irradiation
- ☐ Pasteurization
- ☐ Preliminary Operation (e.g. grinding, de-gritting, blending)
- ☐ Thickening (e.g. gravity thickening, centrifugation, filter press, vacuum filter)

☐ Sludge Lagoon

☐ Temporary Storage (< 2 years)

☐ Long Term Storage (>= 2 years)

☐ Methane or Biogas Recovery

☐ Other Treatment Process: Click to enter text.

C. Biosolids Management

Provide information on the *intended* biosolids management practice. Do not enter every management practice that you want authorized in the permit, as the permit will authorize all biosolids management practices listed in the instructions. Rather indicate the management practice the facility plans to use.

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Other	Off-site Third-Party Preparer	Bulk aerobically digested semi-liquid sludge	46 dry metric tons/day	N/A, Transported to another facility for further processing	N/A, Transported to another facility for further processing
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.

If "Other" is selected for Management Practice, please explain (e.g. monofill or transport to another WWTP): transport to a TCEQ authorized facility for further sludge processing

D. Disposal site

Disposal site name: Second Nature

TCEQ permit or registration number: 42044

County where disposal site is located: Bexar County

E. Transportation method

Method of transportation (truck, train, pipe, other): Truck

Name of the hauler: K-3BMI

Hauler registration number: 22430

Sludge is transported as a:

Liquid ☐ semi-liquid ☐ semi-solid ☒ solid ☐

Section 10. Permit Authorization for Sewage Sludge Disposal

(Instructions Page 53)

A. Beneficial use authorization

Does the existing permit include authorization for land application of sewage sludge for beneficial use?

☐ Yes ☒ No

If yes, are you requesting to continue this authorization to land apply sewage sludge for beneficial use?

☐ Yes ☐ No

If yes, is the completed **Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451)** attached to this permit application (see the instructions for details)?

☐ Yes ☐ No

B. Sludge processing authorization

Does the existing permit include authorization for any of the following sludge processing, storage or disposal options?

Sludge Composting	☐ Yes	☒ No
Marketing and Distribution of sludge	☐ Yes	☒ No
Sludge Surface Disposal or Sludge Monofill	☐ Yes	☒ No
Temporary storage in sludge lagoons	☐ Yes	☒ No

If yes to any of the above sludge options and the applicant is requesting to continue this authorization, is the completed **Domestic Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056)** attached to this permit application?

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

If yes, complete the remainder of this section. If no, proceed to Section 12.

A. Location information

The following maps are required to be submitted as part of the application. For each map, provide the Attachment Number.

- Original General Highway (County) Map:

  Attachment: Click to enter text.
- USDA Natural Resources Conservation Service Soil Map:

  Attachment: Click to enter text.
- Federal Emergency Management Map:

  Attachment: Click to enter text.
- Site map:

Attachment: Click to enter text.

Discuss in a description if any of the following exist within the lagoon area. Check all that apply.

- ☐ Overlap a designated 100-year frequency flood plain
- ☐ Soils with flooding classification
- ☐ Overlap an unstable area
- ☐ Wetlands
- ☐ Located less than 60 meters from a fault
- ☐ None of the above

Attachment: Click to enter text.

If a portion of the lagoon(s) is located within the 100-year frequency flood plain, provide the protective measures to be utilized including type and size of protective structures:

Click to enter text.

B. Temporary storage information

Provide the results for the pollutant screening of sludge lagoons. These results are in addition to pollutant results in *Section 7 of Technical Report 1.0.*

Nitrate Nitrogen, mg/kg: Click to enter text.

Total Kjeldahl Nitrogen, mg/kg: Click to enter text.

Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: Click to enter text.

Phosphorus, mg/kg: Click to enter text.

Potassium, mg/kg: Click to enter text.

pH, standard units: Click to enter text.

Ammonia Nitrogen mg/kg: Click to enter text.

Arsenic: Click to enter text.

Cadmium: Click to enter text.

Chromium: Click to enter text.

Copper: Click to enter text.

Lead: Click to enter text.

Mercury: Click to enter text.

Molybdenum: Click to enter text.

Nickel: Click to enter text.

Selenium: Click to enter text.

Zinc: Click to enter text.

Total PCBs: Click to enter text.

Provide the following information:

Volume and frequency of sludge to the lagoon(s): Click to enter text.

Total dry tons stored in the lagoons(s) per 365-day period: Click to enter text.

Total dry tons stored in the lagoons(s) over the life of the unit: Click to enter text.

C. Liner information

Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of $1x10^{-7}$ cm/sec?

☐ Yes ☐ No

If yes, describe the liner below. Please note that a liner is required.

Click to enter text.

D. Site development plan

Provide a detailed description of the methods used to deposit sludge in the lagoon(s):

Click to enter text.

Attach the following documents to the application.

- Plan view and cross-section of the sludge lagoon(s)

  Attachment: Click to enter text.
- Copy of the closure plan

  Attachment: Click to enter text.
- Copy of deed recordation for the site

  Attachment: Click to enter text.
- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons

  Attachment: Click to enter text.
- Description of the method of controlling infiltration of groundwater and surface water from entering the site

  Attachment: Click to enter text.
- Procedures to prevent the occurrence of nuisance conditions

  Attachment: Click to enter text.

E. Groundwater monitoring

Is groundwater monitoring currently conducted at this site, or are any wells available for groundwater monitoring, or are groundwater monitoring data otherwise available for the sludge lagoon(s)?

☐ Yes ☐ No

If groundwater monitoring data are available, provide a copy. Provide a profile of soil types encountered down to the groundwater table and the depth to the shallowest groundwater as a separate attachment.

Attachment: Click to enter text.

Section 12. Authorizations/Compliance/Enforcement (Instructions Page 55)

A. Additional authorizations

Does the permittee have additional authorizations for this facility, such as reuse authorization, sludge permit, etc?

☒ Yes ☐ No

If yes, provide the TCEQ authorization number and description of the authorization:

210 Authorization No. R11041-002 Type II reclaimed water can be used for golf course irrigation, irrigation of medians, dust suppression and soil compaction for construction.

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☒ Yes ☐ No

Is the permittee required to meet an implementation schedule for compliance or enforcement?

☒ Yes ☐ No

If yes to either question, provide a brief summary of the enforcement, the implementation schedule, and the current status:

The City was issued a proposed agreed order on July 17, 2024 for four violations associated with this facility. At the City's request, the case was moved to the Litigation Division for further discussion of the violations. TCEQ issued an Executive Director's Preliminary Report and Petition on April 22, 2025, and following discussions with the Enforcement and Litigation Division, the City is currently working to apply for a compliance supplemental environmental project ("SEP"). Following approval of the SEP and TCEQ Commission approval of the final agreed order, the City will submit the required progress reports detailing the status of the project, as well as documentation demonstrating compliance with the ordering provisions.

Section 13. RCRA/CERCLA Wastes (Instructions Page 55)

A. RCRA hazardous wastes

Has the facility received in the past three years, does it currently receive, or will it receive RCRA hazardous waste?

☐ Yes ☒ No

B. Remediation activity wastewater

Has the facility received in the past three years, does it currently receive, or will it receive CERCLA wastewater, RCRA remediation/corrective action wastewater or other remediation activity wastewater?

☐ Yes ☒ No

C. Details about wastes received

If yes to either Subsection A or B above, provide detailed information concerning these wastes with the application.

Attachment: Click to enter text.

Section 14. Laboratory Accreditation (Instructions Page 56)

All laboratory tests performed must meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification*, which includes the following general exemptions from National Environmental Laboratory Accreditation Program (NELAP) certification requirements:

- The laboratory is an in-house laboratory and is:
  - periodically inspected by the TCEQ; or
  - located in another state and is accredited or inspected by that state; or
  - performing work for another company with a unit located in the same site; or
  - performing pro bono work for a governmental agency or charitable organization.
- The laboratory is accredited under federal law.
- The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.
- The laboratory supplies data for which the TCEQ does not offer accreditation.

The applicant should review 30 TAC Chapter 25 for specific requirements.

The following certification statement shall be signed and submitted with every application. See the Signature Page section in the Instructions, for a list of designated representatives who may sign the certification.

CERTIFICATION:

I certify that all laboratory tests submitted with this application meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.*

Printed Name: Click to enter text.

Title: Click to enter text.

Signature: _____

Date: _____

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

Section 1. Domestic Drinking Water Supply (Instructions Page 64)

Is there a surface water intake for domestic drinking water supply located within 5 miles downstream from the point or proposed point of discharge?

☐ Yes ☒ No

If **no**, proceed it Section 2. **If yes**, provide the following:

Owner of the drinking water supply: Click to enter text.

Distance and direction to the intake: Click to enter text.

Attach a USGS map that identifies the location of the intake.

Attachment: Click to enter text.

Section 2. Discharge into Tidally Affected Waters (Instructions Page 64)

Does the facility discharge into tidally affected waters?

☐ Yes ☒ No

If **no**, proceed to Section 3. **If yes**, complete the remainder of this section. If no, proceed to Section 3.

A. Receiving water outfall

Width of the receiving water at the outfall, in feet: Click to enter text.

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

☐ Yes ☐ No

If yes, provide the distance and direction from outfall(s).

Click to enter text.

C. Sea grasses

Are there any sea grasses within the vicinity of the point of discharge?

☐ Yes ☐ No

If yes, provide the distance and direction from the outfall(s).

Click to enter text.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

The following **is required** for **all publicly owned treatment works**.

Section 1. All POTWs (Instructions Page 89)

A. Industrial users (IUs)

Provide the number of each of the following types of industrial users (IUs) that discharge to your POTW and the daily flows from each user. See the Instructions for definitions of Categorical IUs, Significant IUs – non-categorical, and Other IUs.

If there are no users, enter 0 (zero).

Categorical IUs:

Number of IUs: 0

Average Daily Flows, in MGD: N/A

Significant IUs – non-categorical:

Number of IUs: 3

Average Daily Flows, in MGD: 0.0096

Other IUs:

Number of IUs: 0

Average Daily Flows, in MGD: N/A

B. Treatment plant interference

In the past three years, has your POTW experienced treatment plant interference (see instructions)?

☐ Yes ☒ No

If yes, identify the dates, duration, description of interference, and probable cause(s) and possible source(s) of each interference event. Include the names of the IUs that may have caused the interference.

Click to enter text.

C. Treatment plant pass through

In the past three years, has your POTW experienced pass through (see instructions)?

☐ Yes ☒ No

If yes, identify the dates, duration, a description of the pollutants passing through the treatment plant, and probable cause(s) and possible source(s) of each pass through event. Include the names of the IUs that may have caused pass through.

Click to enter text.

D. Pretreatment program

Does your POTW have an approved pretreatment program?

☐ Yes ☒ No

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

☐ Yes ☒ No

If yes, complete Section 2.c. and 2.d. only, and skip Section 3.

If no to either question above, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user.

Section 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 90)

A. Substantial modifications

Have there been any **substantial modifications** to the approved pretreatment program that have not been submitted to the TCEQ for approval according to *40 CFR §403.18*?

☐ Yes ☐ No

If yes, identify the modifications that have not been submitted to TCEQ, including the purpose of the modification.

Click to enter text.

B. Non-substantial modifications

Have there been any **non-substantial modifications** to the approved pretreatment program that have not been submitted to TCEQ for review and acceptance?

☐ Yes ☐ No

If yes, identify all non-substantial modifications that have not been submitted to TCEQ, including the purpose of the modification.

Click to enter text.

C. Effluent parameters above the MAL

In Table 6.0(1), list all parameters measured above the MAL in the POTW's effluent monitoring during the last three years. Submit an attachment if necessary.

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date

D. Industrial user interruptions

Has any SIU, CIU, or other IU caused or contributed to any problems (excluding interferences or pass throughs) at your POTW in the past three years?

☐ Yes ☐ No

If yes, identify the industry, describe each episode, including dates, duration, description of the problems, and probable pollutants.

Click to enter text.

Section 3. Significant Industrial User (SIU) Information and Categorical

Industrial User (CIU) (Instructions Page 90)

A. General information

Company Name: ALSCO

SIC Code: 7213

Contact name: Anthony Wessels

Address: 449 Vista Ridge Dr.

City, State, and Zip Code: Kyle, Tx, 78640

Telephone number: 512-937-6161

Email address: Click to enter text.

B. Process information

Describe the industrial processes or other activities that affect or contribute to the SIU(s) or CIU(s) discharge (i.e., process and non-process wastewater).

Industrial linen rental. Liquid waste is removed from wastewater by filtration process.

C. Product and service information

Provide a description of the principal product(s) or services performed.

Industrial laundry operation which includes washing, drying and ironing. The facility uses alkali, soap detergent, antichlorine, sodium fluorosilicate, alkaline surfactants, sodium lignosulfonate, bleach and biocide (mildew preventive) for its laundry operations.

D. Flow rate information

See the Instructions for definitions of "process" and "non-process wastewater."

Process Wastewater:

Discharge, in gallons/day: 140,000

Discharge Type: ☐ Continuous ☒ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: 3,960

Discharge Type: ☒ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

Is the SIU or CIU subject to technically based local limits as defined in the *i*nstructions?

☐ Yes ☒ No

Is the SIU or CIU subject to categorical pretreatment standards found in *40 CFR Parts 405-471*?

☐ Yes ☒ No

If subject to categorical pretreatment standards, indicate the applicable category and subcategory for each categorical process.

Category: Subcategories: Click to enter text.

Click or tap here to enter text. Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

F. Industrial user interruptions

Has the SIU or CIU caused or contributed to any problems (e.g., interferences, pass through, odors, corrosion, blockages) at your POTW in the past three years?

☐ Yes ☒ No

If yes, identify the SIU, describe each episode, including dates, duration, description of problems, and probable pollutants.

Click to enter text.

DESIGN CALCULATIONS

Influent Quality Characteristics - The raw sewage characteristics used for design purposes are as follows:

Parameter	Concentration (mg/L)
BOD_5	250
TSS	220
NH_4 as N	35

The flow characteristics used for design purposes are as follows:

Flows	Existing	Interim	Final
Average Design Flow (Q_{ave}) (MGD)	4.5	9	12
Peak 2-Hr Design Flow (Q_{peak}) (MGD)	18	36	48
Flow split to Bullseye Plant (%)	60%	30%	23.3%

Loadings used for design purposes are as follows:

Loads	Existing	Interim	Final
BOD_5 Design Loading (lbs/day)	9,383	18,765	25,020
TSS Design Loading (lbs/day)	8,257	16,513	22,018
NH_4 as N Design Loading (lbs/day)	1,314	2,627	3,503

The treatment facility was designed to produce an effluent quality to meet the proposed permitted parameters of:

$CBOD_5$ = 10 mg/L; TSS = 15 mg/L; NH_3-N = 2 mg/L; DO = 5 mg/L;

All process units will operate as conventional activated sludge process with single stage nitrification. The 7-day low temperature of the wastewater in the plant is above 15 ˚C

Aeration Basin Design

Parameter	TCEQ Requirement	Existing Phase Provided	Interim Phase Provided	Final Phase Provided
Aeration Basins				
Activated Sludge Plant Organic Loading Rate (lbs/day/1000 ft^3)	35	23	20	20
Bullseye Plant Organic Loading Rate (lbs/day/1000 ft^3)		19	19	20
Total Activated Sludge Basin Volume (ft^3)	107,229 Existing 375,300 Interim 548,295 Final	160,500	642,000	963,000
Total Bullseye Plant Volume (ft^3)	160,843 Existing 160,843 Interim 166,562 Final	293,806	293,806	293,806
MLSS Concentration (mg/L)	-	4,000	4,000	4,000
Aeration Basin Blower System				
Oxygen Required (O2 lbs/BOD5 lbs)	2.2	2.2	2.2	2.2
CWOTE %		25.6%	25.6%	25.6%
WOTE %		11.5%	11.5%	11.5%
Blower Capacity (SCFM)		2,550	4,000	4,000
# Blowers in-service		3	4	5
Required Airflow RAF (SCFM)	7,213 Existing 14,427 Interim 19,236 Final	7,650	16,000	20,000
Mixing Required Airflow (SCFM)	3,634 Existing 7,486 Interim 10,054 Final	7,650	16,000	20,000

Secondary Clarifier Design

Parameter	TCEQ Requirement	Existing Phase Provided	Interim Phase Provided	Final Phase Provided
Surface Loading Rate				
Activated Sludge Plant Maximum Surface Loading Rate (gpd/ft2)	1,200	935	935	957
Bullseye Plant Maximum Surface Loading Rate (gpd/ft2)	1,200	930	930	963
70-ft Diameter Clarifier Area (ft2/clarifier)	-	3,848	3,848	3,848
Number of 70-ft Clarifiers	-	2	7	10
Bullseye Clarifier Area (ft2/clarifier)	-	5,809	5,809	5,809
Number of Bullseye Clarifiers	-	2	2	2
Detention Time				
Sidewater Depth (ft)	10	15	15	15
Activated Sludge Plant Detention Time (hr)	1.8	2.9	2.9	2.8

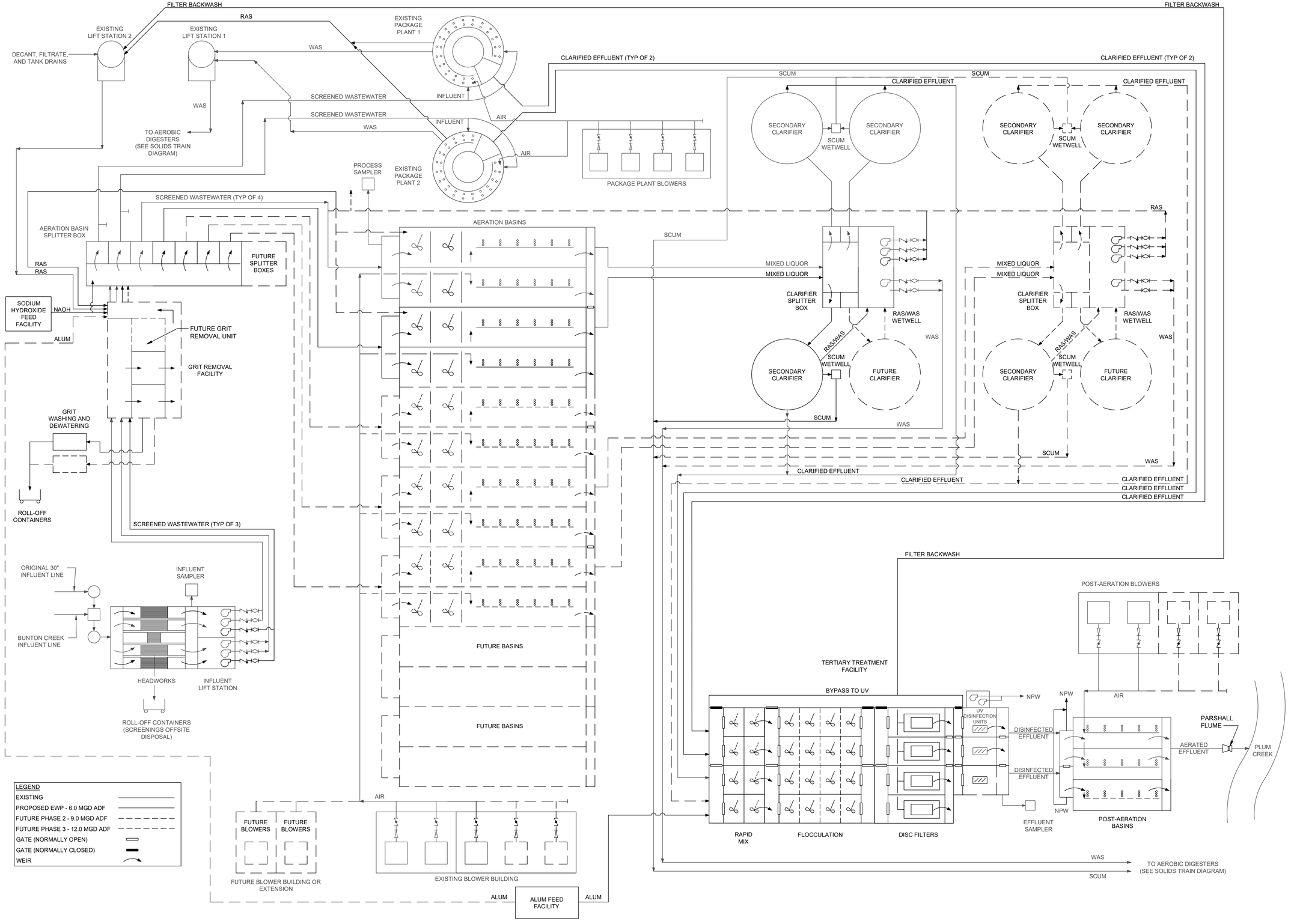
Bullseye Plant Detention Time (hr)	1.8	2.9	2.9	2.8
70-ft Diameter Clarifier Volume (ft3/clarifier)	-	57,727	57,727	57,727
Bullseye Clarifier Volume (ft3/clarifier)	-	87,132	87,132	87,132
Weir Loading Rate				
Activated Sludge Plant Clarifier Diameter (ft)	-	70	70	70
Bullseye Plant Clarifier Diameter (ft)	-	86	86	86
Activated Sludge Plant Maximum Weir Loading Rate (gpd/ft)	20,000	16,370	16,370	16,741
Bullseye Plant Maximum Weir Loading Rate (gpd/ft2)	20,000	19,987	19,987	20,698
70-ft Diameter Clarifier Weir Length (ft/clarifier)	-	220	220	220
Bullseye Clarifier Weir Length (ft/clarifier)	-	270	270	270
Total 70-ft Clarifier Weir Length (ft)	-	440	1,539	2,199
Total Bullseye Clarifier Weir Length (ft)	-	540	540	540

Aerobic Digesters

Parameter	TCEQ Requirement	Existing Phase Provided	Interim Phase Provided	Final Phase Provided
Aerobic Digesters				
Detention Time at 20 ˚C (days)	40	83.9	42.0	47.3
WAS Influent (gpd)	-	65,000	130,000	173,000
WAS TSS (mg/L)	-	9,930	9,930	9,930
WAS VSS (%)		80%	80%	80%
Total Influent Solids (ppd)	-	5,383	10,766	14,327
Volatile Influent Solids (ppd)	-	4,306	8,613	11,462
# Digesters	-	4	4	6
Digester Volume (ft^3/digester)	-	63,000	63,000	63,000
Total Digester Volume (ft^3)	-	252,000	252,000	378,000
Volatile Solids Destruction (%)	-	38%	38%	38%
Volatile Effluent Solids (ppd)	-	2,670	5,340	7,106
Total Effluent Solids (ppd)	-	3,747	7,493	9,972
Digested Solids Concentration (%)	2.0%	2.0%	2.0%	2.0%
Digested Effluent (gpd)	-	22,462	44,923	59,783
Aerobic Digester Blower System				
Air Flow Required per Volume (SCFM/1000 ft^3)	20	35	35	23
Blower Capacity (SCFM)	-	2,182	2,182	2,182
# Blowers in-service	-	4	4	4
Mixing Required Airflow (SCFM)	5,040 5,040 7,560	8,728	8,728	8,728

Filtration and UV Disinfection

Parameter	Recommended	Existing Phase Provided	Interim Phase Provided	Final Phase Provided
Tertiary Filtration				
# Units		N/A	N/A	4
Maximum Hydraulic Rate Allowed (gpm/sf)		N/A	N/A	6.5
Firm Area Required at Peak (sf)		N/A	N/A	5,128
Disk Diameter (ft)		N/A	N/A	10
# Disks (firm)		N/A	N/A	66
# Disks/Filter (firm)		N/A	N/A	22
Maximum Firm Hydraulic Rate Provided (gpm/sf)		N/A	N/A	6.4
UV Disinfection				
Channel Length (ft)		38	38	38
# Channels		2	3	4
Cross Section Area (ft2)		24	24	24
Velocity (fps)		0.6	0.8	0.8
Detention Time (seconds)		65	49	49
Minimum Design Dose (mJ/cm2)	30	50	38	38



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TEXAS REGISTERED ENGINEERING FIRM
TBPE F-1741

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MAY 2025
ROBERT K. WILLIAMS
P.E NO. 141630

NO.	REVISION	BY	DATE

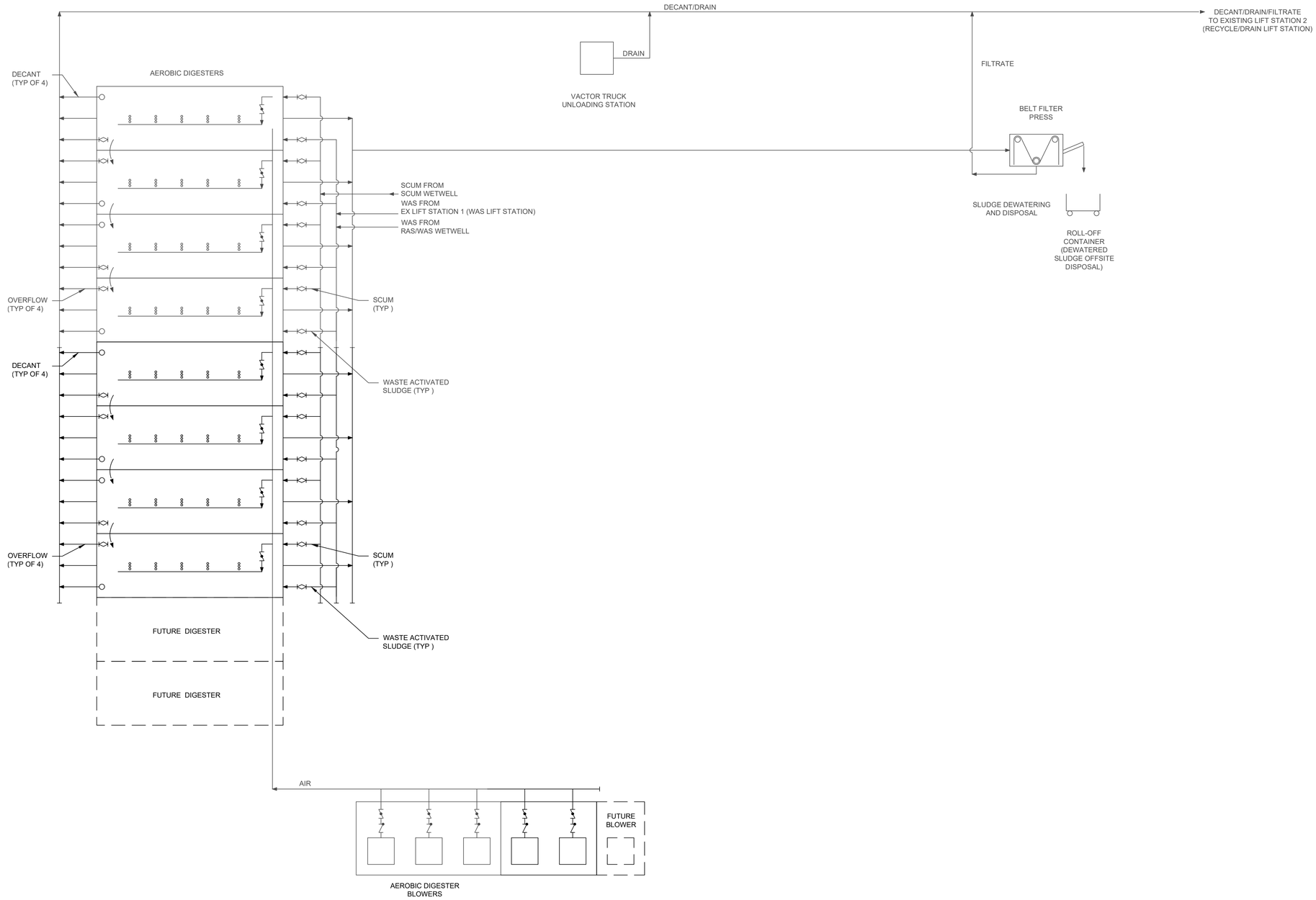
VERIFY SCALE BAR LENGTH EQUALS ONE INCH ON ORIGINAL DRAWING. VERIFY LENGTH ON THIS SHEET AND ADJUST SCALE ACCORDINGLY.
0 1"

CITY OF KYLE
WASTEWATER TREATMENT PLANT
EXPANSION PHASE 2 - EWP

TREATMENT SCHEMATIC DIAGRAM
LIQUIDS TRAIN

DESIGN: R. WILLIAMS, P.E.
DRAWN: J. SPITZER
REVIEW: A. KUZOVKOV, P.E.
STV: KYLE2100699.02
EARLY WORK (EWP)

SHEET
G-0010



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STV
TEXAS REGISTERED ENGINEERING FIRM
TBPE F-1741

CITY OF KYLE

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MAY 2025
ROBERT K. WILLIAMS
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0 1"

CITY OF KYLE
WASTEWATER TREATMENT PLANT
EXPANSION PHASE 2 - EWP

TREATMENT SCHEMATIC DIAGRAM
SOLIDS TRAIN

DESIGN: R. WILLIAMS, P.E.
DRAWN: J. SPITZER
REVIEW: A. KUZOVKOV, P.E.
STV: KYLE2100699.02
EARLY WORK (EWP)

SHEET
G-0011

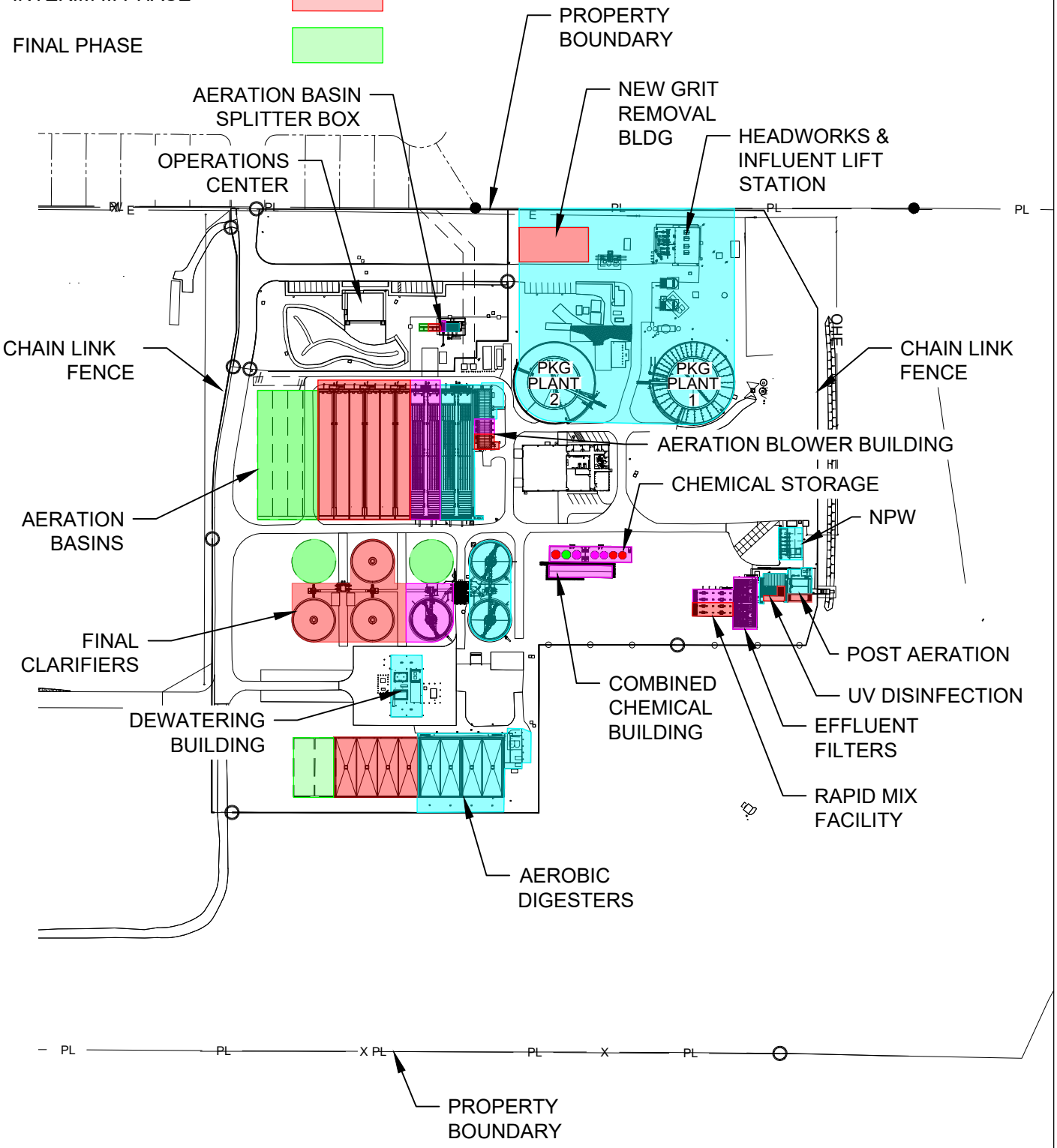
PHASES:

EXISTING/INTERIM PHASE

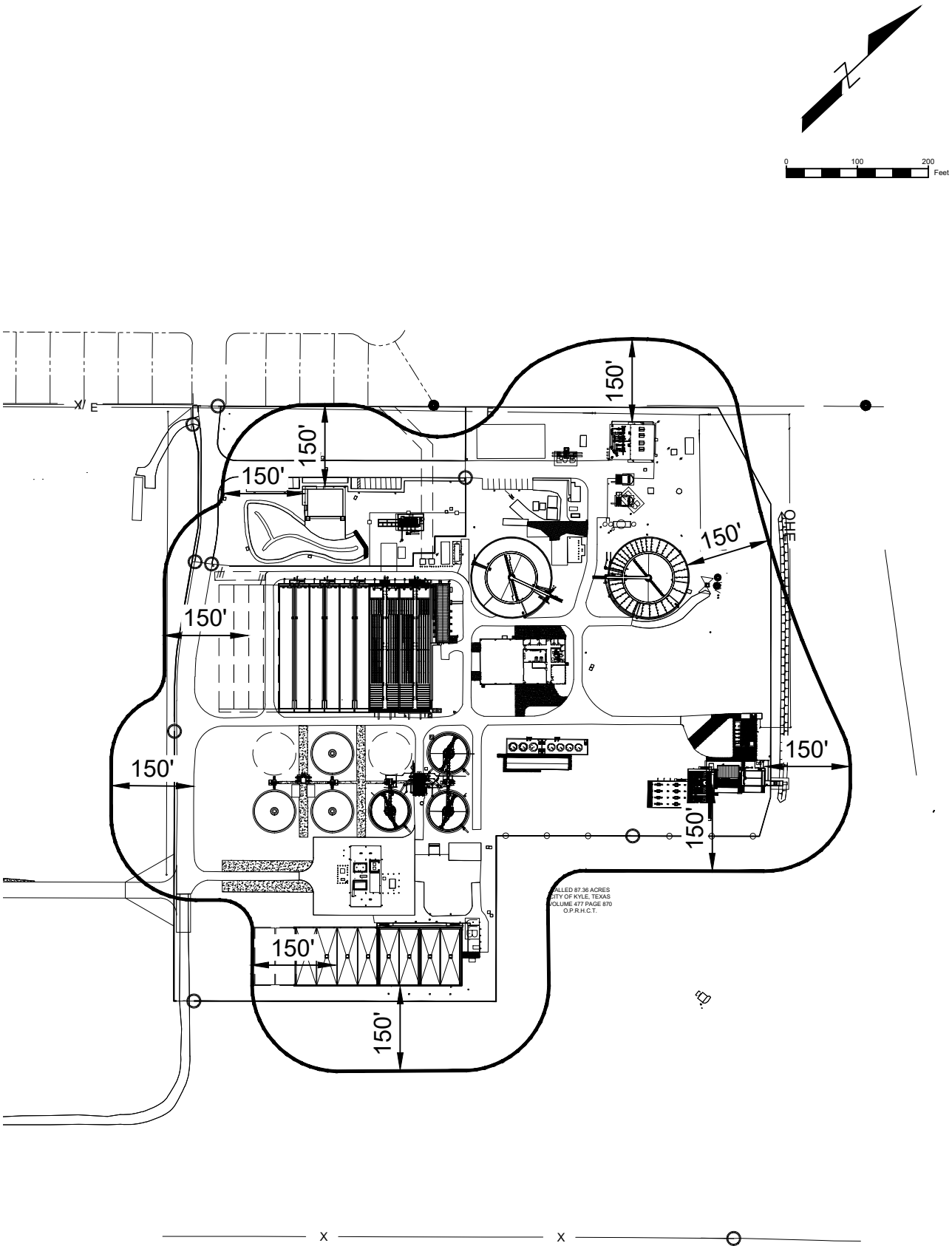
INTERIM II PHASE

INTERIM III PHASE

FINAL PHASE



CITY OF KYLE WASTE WATER TREATMENT PLANT EXPANSION PERMIT AMENDMENTS **OVERALL SITE PLAN**	**MAY 2025**		TEXAS REGISTERED ENGINEERING FIRM TBPE F-1741	**ATTACHMENT 7**



CITY OF KYLE WASTE WATER TREATMENT PLANT EXPANSION PERMIT AMENDMENTS

OVERALL SITE PLAN

MAY 2025

TEXAS REGISTERED ENGINEERING FIRM
TBPE F-1741

ATTACHMENT

4

DESIGN CALCULATIONS

Influent Quality Characteristics - The raw sewage characteristics used for design purposes are as follows:

Parameter	Concentration (mg/L)
BOD_5	250
TSS	220
NH_4 as N	35

The flow characteristics used for design purposes are as follows:

Flows	Existing	Interim	Final
Average Design Flow (Q_{ave}) (MGD)	4.5	9	12
Peak 2-Hr Design Flow (Q_{peak}) (MGD)	18	36	48
Flow split to Bullseye Plant (%)	60%	30%	23.3%

Loadings used for design purposes are as follows:

Loads	Existing	Interim	Final
BOD_5 Design Loading (lbs/day)	9,383	18,765	25,020
TSS Design Loading (lbs/day)	8,257	16,513	22,018
NH_4 as N Design Loading (lbs/day)	1,314	2,627	3,503

The treatment facility was designed to produce an effluent quality to meet the proposed permitted parameters of:

$CBOD_5$ = 10 mg/L; TSS = 15 mg/L; NH_3-N = 2 mg/L; DO = 5 mg/L;

All process units will operate as conventional activated sludge process with single stage nitrification. The 7-day low temperature of the wastewater in the plant is above 15 ˚C

Aeration Basin Design

Parameter	TCEQ Requirement	Existing Phase Provided	Interim Phase Provided	Final Phase Provided
Aeration Basins				
Activated Sludge Plant Organic Loading Rate (lbs/day/1000 ft^3)	35	23	20	20
Bullseye Plant Organic Loading Rate (lbs/day/1000 ft^3)		19	19	20
Total Activated Sludge Basin Volume (ft^3)	107,229 Existing 375,300 Interim 548,295 Final	160,500	642,000	963,000
Total Bullseye Plant Volume (ft^3)	160,843 Existing 160,843 Interim 166,562 Final	293,806	293,806	293,806
MLSS Concentration (mg/L)	-	4,000	4,000	4,000
Aeration Basin Blower System				
Oxygen Required (O2 lbs/BOD5 lbs)	2.2	2.2	2.2	2.2
CWOTE %		25.6%	25.6%	25.6%
WOTE %		11.5%	11.5%	11.5%
Blower Capacity (SCFM)		2,550	4,000	4,000
# Blowers in-service		3	4	5
Required Airflow RAF (SCFM)	7,213 Existing 14,427 Interim 19,236 Final	7,650	16,000	20,000
Mixing Required Airflow (SCFM)	3,634 Existing 7,486 Interim 10,054 Final	7,650	16,000	20,000

Secondary Clarifier Design

Parameter	TCEQ Requirement	Existing Phase Provided	Interim Phase Provided	Final Phase Provided
Surface Loading Rate				
Activated Sludge Plant Maximum Surface Loading Rate (gpd/ft2)	1,200	935	935	957
Bullseye Plant Maximum Surface Loading Rate (gpd/ft2)	1,200	930	930	963
70-ft Diameter Clarifier Area (ft2/clarifier)	-	3,848	3,848	3,848
Number of 70-ft Clarifiers	-	2	7	10
Bullseye Clarifier Area (ft2/clarifier)	-	5,809	5,809	5,809
Number of Bullseye Clarifiers	-	2	2	2
Detention Time				
Sidewater Depth (ft)	10	15	15	15
Activated Sludge Plant Detention Time (hr)	1.8	2.9	2.9	2.8

Bullseye Plant Detention Time (hr)	1.8	2.9	2.9	2.8
70-ft Diameter Clarifier Volume (ft3/clarifier)	-	57,727	57,727	57,727
Bullseye Clarifier Volume (ft3/clarifier)	-	87,132	87,132	87,132
Weir Loading Rate				
Activated Sludge Plant Clarifier Diameter (ft)	-	70	70	70
Bullseye Plant Clarifier Diameter (ft)	-	86	86	86
Activated Sludge Plant Maximum Weir Loading Rate (gpd/ft)	20,000	16,370	16,370	16,741
Bullseye Plant Maximum Weir Loading Rate (gpd/ft2)	20,000	19,987	19,987	20,698
70-ft Diameter Clarifier Weir Length (ft/clarifier)	-	220	220	220
Bullseye Clarifier Weir Length (ft/clarifier)	-	270	270	270
Total 70-ft Clarifier Weir Length (ft)	-	440	1,539	2,199
Total Bullseye Clarifier Weir Length (ft)	-	540	540	540

Aerobic Digesters

Parameter	TCEQ Requirement	Existing Phase Provided	Interim Phase Provided	Final Phase Provided
Aerobic Digesters				
Detention Time at 20 ˚C (days)	40	83.9	42.0	47.3
WAS Influent (gpd)	-	65,000	130,000	173,000
WAS TSS (mg/L)	-	9,930	9,930	9,930
WAS VSS (%)		80%	80%	80%
Total Influent Solids (ppd)	-	5,383	10,766	14,327
Volatile Influent Solids (ppd)	-	4,306	8,613	11,462
# Digesters	-	4	4	6
Digester Volume (ft^3/digester)	-	63,000	63,000	63,000
Total Digester Volume (ft^3)	-	252,000	252,000	378,000
Volatile Solids Destruction (%)	-	38%	38%	38%
Volatile Effluent Solids (ppd)	-	2,670	5,340	7,106
Total Effluent Solids (ppd)	-	3,747	7,493	9,972
Digested Solids Concentration (%)	2.0%	2.0%	2.0%	2.0%
Digested Effluent (gpd)	-	22,462	44,923	59,783
Aerobic Digester Blower System				
Air Flow Required per Volume (SCFM/1000 ft^3)	20	35	35	23
Blower Capacity (SCFM)	-	2,182	2,182	2,182
# Blowers in-service	-	4	4	4
Mixing Required Airflow (SCFM)	5,040 5,040 7,560	8,728	8,728	8,728

Filtration and UV Disinfection

Parameter	Recommended	Existing Phase Provided	Interim Phase Provided	Final Phase Provided
Tertiary Filtration				
# Units		N/A	N/A	4
Maximum Hydraulic Rate Allowed (gpm/sf)		N/A	N/A	6.5
Firm Area Required at Peak (sf)		N/A	N/A	5,128
Disk Diameter (ft)		N/A	N/A	10
# Disks (firm)		N/A	N/A	66
# Disks/Filter (firm)		N/A	N/A	22
Maximum Firm Hydraulic Rate Provided (gpm/sf)		N/A	N/A	6.4
UV Disinfection				
Channel Length (ft)		38	38	38
# Channels		2	3	4
Cross Section Area (ft2)		24	24	24
Velocity (fps)		0.6	0.8	0.8
Detention Time (seconds)		65	49	49
Minimum Design Dose (mJ/cm2)	30	50	38	38

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

June 26, 2025

Re: Confirmation of Submission of the Minor Amendment without Renewal for Public Domestic Wastewater Authorization.

Dear Applicant:

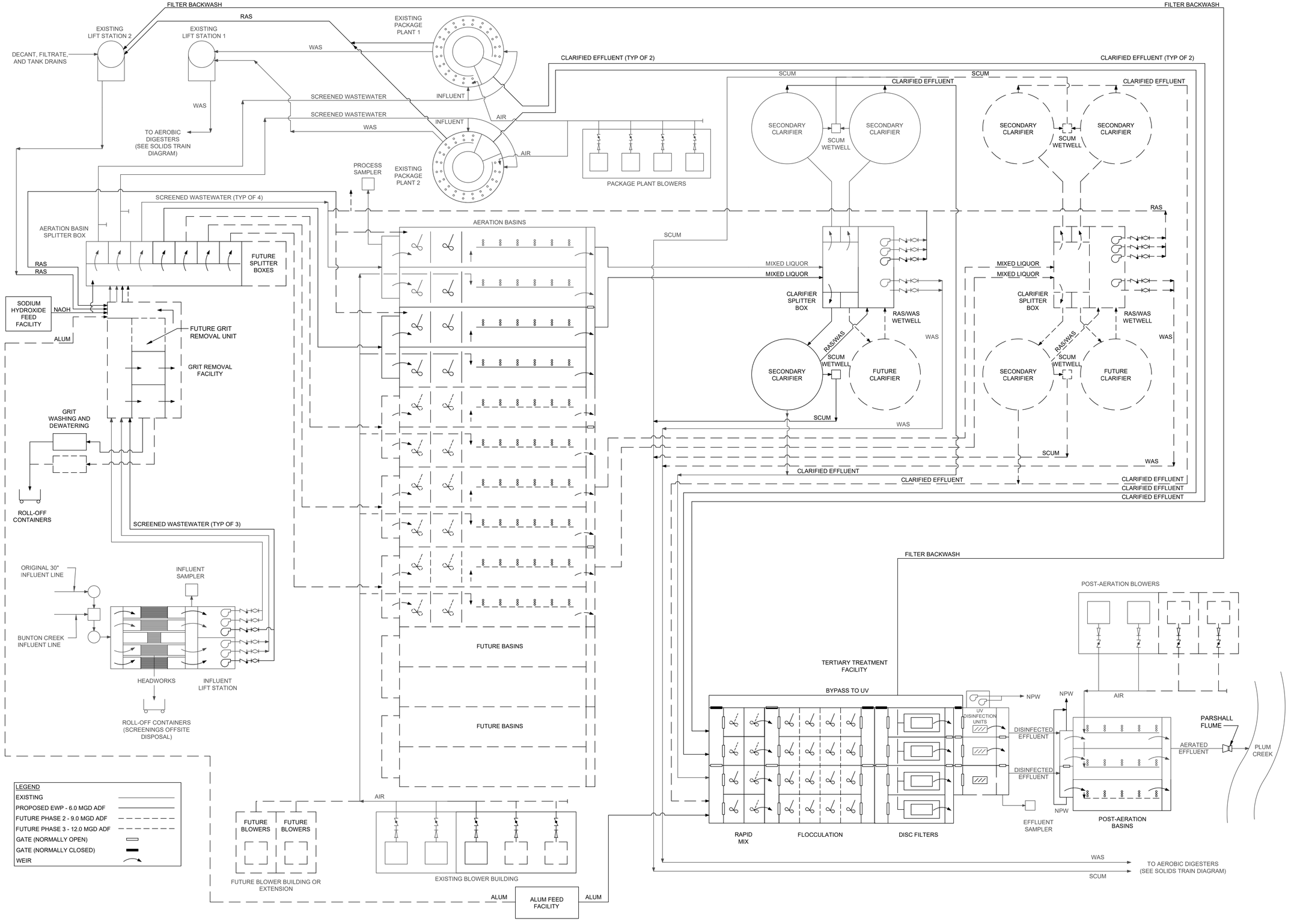
This is an acknowledgement that you have successfully completed Minor Amendment without Renewal for the Public Domestic Wastewater authorization.

ER Account Number: ER110719
Application Reference Number: 795546
Authorization Number: WQ0011041002
Site Name: City of Kyle WWTP
Regulated Entity: RN102182680 - City of Kyle WWTP
Customer(s): CN600334510 - City of Kyle

Please be aware that TCEQ staff may contact your designated contact for any additional information.

If you have any questions, you may contact the Applications Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by telephone at (512) 239-4671.

Sincerely,
Applications Review and Processing Team
Water Quality Division



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TEXAS REGISTERED ENGINEERING FIRM
TBPE F-1741

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MAY 2025
ROBERT K. WILLIAMS
P.E NO. 141630

NO.	REVISION	BY	DATE

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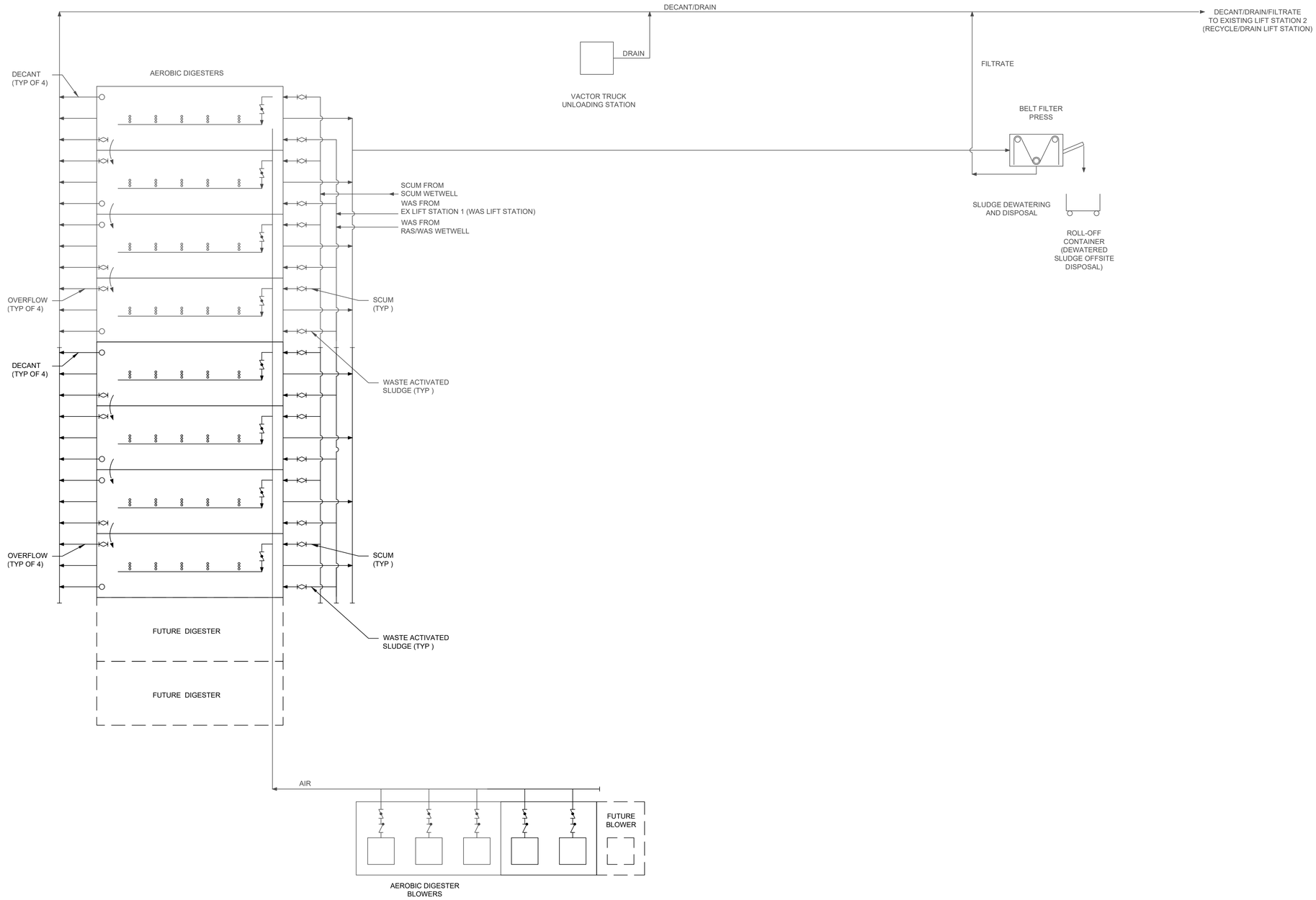
0 1"

CITY OF KYLE
WASTEWATER TREATMENT PLANT
EXPANSION PHASE 2 - EWP

TREATMENT SCHEMATIC DIAGRAM
LIQUIDS TRAIN

DESIGN: R. WILLIAMS, P.E.
DRAWN: J. SPITZER
REVIEW: A. KUZOVKOV, P.E.
STV: KYLE2100699.02
EARLY WORK (EWP)

SHEET
G-0010



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TEXAS REGISTERED ENGINEERING FIRM
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CITY OF KYLE

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EXPANSION PHASE 2 - EWP

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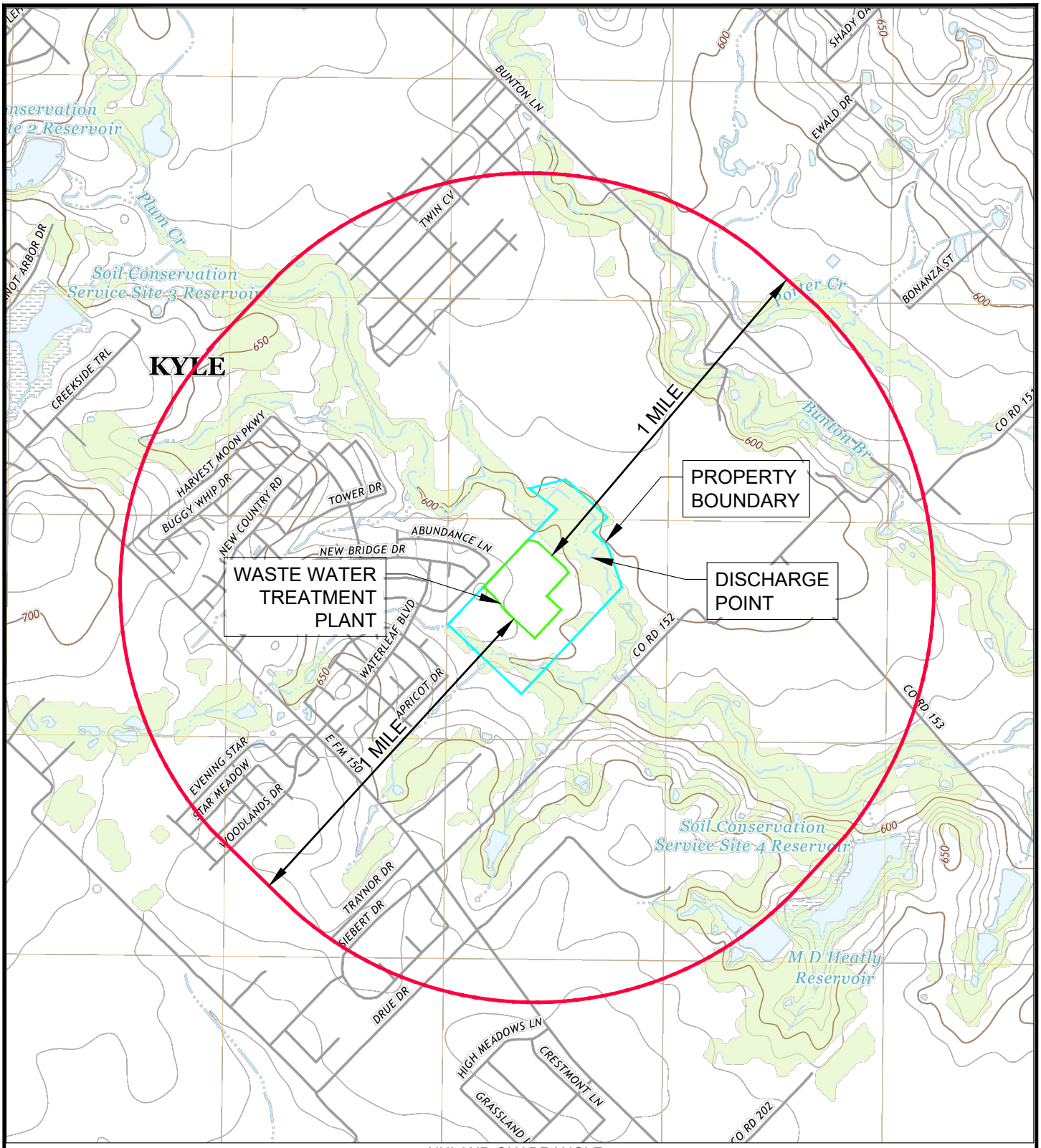


UHLAND QUADRANGLE
TEXAS
7.5-MINUTE SERIES
1:24,000

LEGEND:

FACILITY BOUNDARY

PROPERTY LINE

1 MILE BUFFER

CITY OF KYLE WASTE WATER TREATMENT PLANT EXPANSION PERMIT AMENDMENTS

USGS MAP & ONE MILE BUFFER ZONE

MAY 2025

TEXAS REGISTERED ENGINEERING FIRM
TBPE F-1741

ATTACHMENT
3

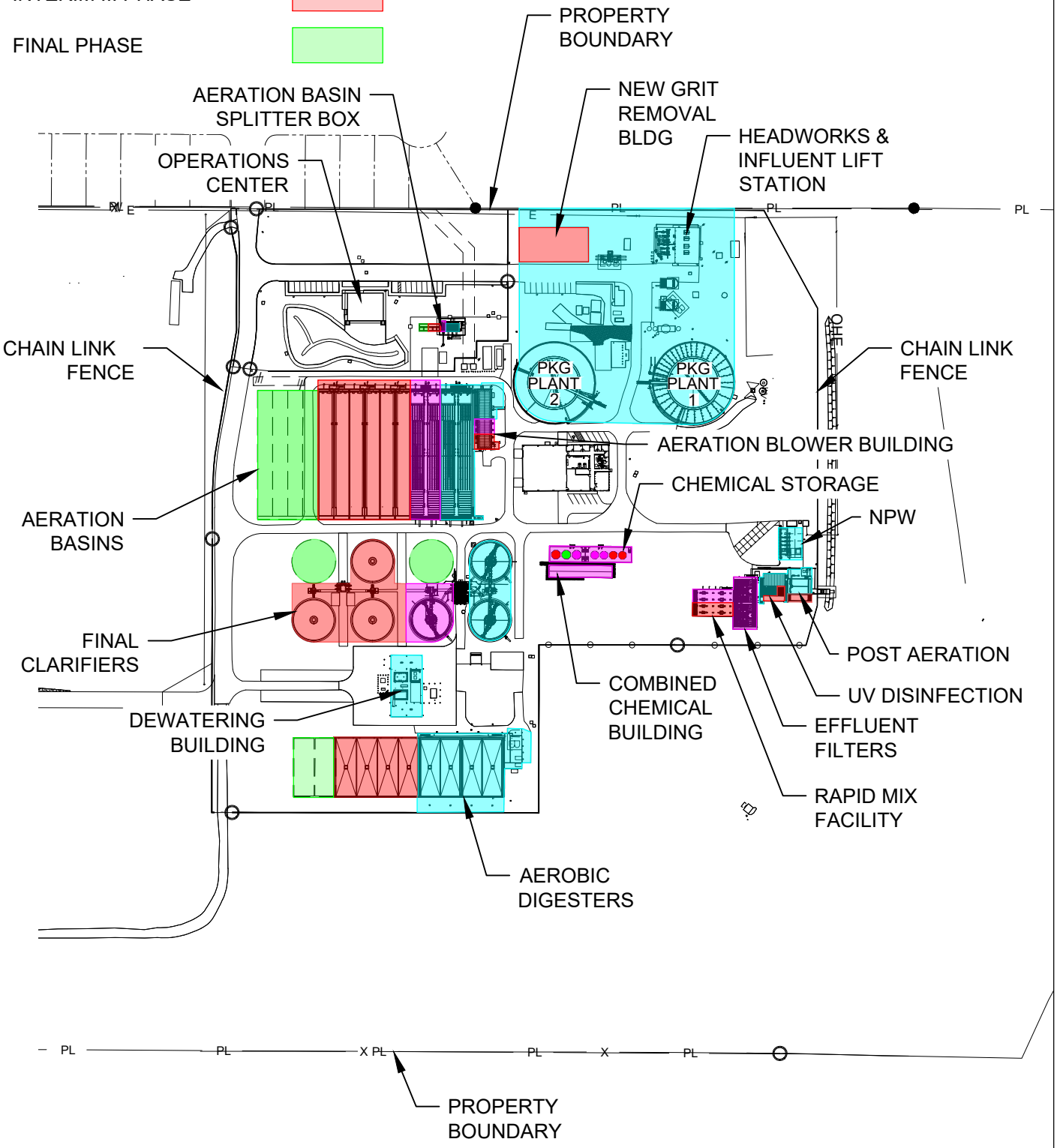
PHASES:

EXISTING/INTERIM PHASE

INTERIM II PHASE

INTERIM III PHASE

FINAL PHASE



CITY OF KYLE WASTE WATER TREATMENT PLANT EXPANSION PERMIT AMENDMENTS **OVERALL SITE PLAN**	**MAY 2025**		TEXAS REGISTERED ENGINEERING FIRM TBPE F-1741	**ATTACHMENT 7**

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: _____Renewal _____Major Amendment _____Minor Amendment _____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

_____ Texas Historical Commission _____ U.S. Fish and Wildlife

_____ Texas Parks and Wildlife Department _____ U.S. Army Corps of Engineers

This form applies to TPDES permit applications only. (Instructions, Page 53)

Complete this form as a separate document. TCEQ will mail a copy to each agency as required by our agreement with EPA. If any of the items are not completely addressed or further information is needed, we will contact you to provide the information before issuing the permit. Address each item completely.

Do not refer to your response to any item in the permit application form. Provide each attachment for this form separately from the Administrative Report of the application. The application will not be declared administratively complete without this SPIF form being completed in its entirety including all attachments. Questions or comments concerning this form may be directed to the Water Quality Division's Application Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by phone at (512) 239-4671.

The following applies to all applications:

1. Permittee: City of Kyle

   Permit No. WQ00 11041002 EPA ID No. TX 0119466

   Address of the project (or a location description that includes street/highway, city/vicinity, and county):

   Located at 941 New Bridge Drive, Kyle, approximately 2.7 miles northwest of the intersection of State Route 21 and Farm to Market Road 2720, in Hays County, Texas 78640.

Provide the name, address, phone and fax number of an individual that can be contacted to answer specific questions about the property.

Prefix (Mr., Ms., Miss): Mr.

First and Last Name: Timothy Samford

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: Division Manager of Treatment Operations

Mailing Address: 100 W. Center St.

City, State, Zip Code: Kyle, Texas 78640

Phone No.: (512) 262-3024 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: tsamford@cityofkyle.com

2. List the county in which the facility is located: Hays

3. If the property is publicly owned and the owner is different than the permittee/applicant, please list the owner of the property.

N/A

4. Provide a description of the effluent discharge route. The discharge route must follow the flow of effluent from the point of discharge to the nearest major watercourse (from the point of discharge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify the classified segment number.

From the plant site through pipping into Plum Creek (Segment 1810 of the Guadalupe Basin).

5. Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report).

Provide original photographs of any structures 50 years or older on the property.

Does your project involve any of the following? Check all that apply.

- ☒ Proposed access roads, utility lines, construction easements
- ☐ Visual effects that could damage or detract from a historic property's integrity
- ☐ Vibration effects during construction or as a result of project design
- ☒ Additional phases of development that are planned for the future
- ☐ Sealing caves, fractures, sinkholes, other karst features

☐ Disturbance of vegetation or wetlands

1. List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features):

The future expansions will be constructed within the existing plant site property boundary. Depths of excavation will be determined at the time of expansion design.

2. Describe existing disturbances, vegetation, and land use:

First package plant installed at the plant site in 2001. The plant site has been continuously used for wastewater treatment since then with periodic addition of treatment units as the flows increased. Landscaped areas in and around the plant, natural and planted vegetation.

THE FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR AMENDMENTS TO TPDES PERMITS

3. List construction dates of all buildings and structures on the property:

N/A

4. Provide a brief history of the property, and name of the architect/builder, if known.

N/A

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

For any questions about this form, please contact the Domestic Wastewater Permitting Team at 512-239-4671.

The following information is required for all renewal, new, and amendment applications.

Section 1. Permitted or Proposed Flows (Instructions Page 43)

A. Existing/Interim I Phase

Design Flow (MGD): 4.5

2-Hr Peak Flow (MGD): 18.0

Estimated construction start date: March 2022

Estimated waste disposal start date: March 2023

B. Interim II Phase

Design Flow (MGD): 6.0

2-Hr Peak Flow (MGD): 24.0

Estimated construction start date: October 2025

Estimated waste disposal start date: October 2026

C. Interim III Phase

Design Flow (MGD): 9.0

2-Hr Peak Flow (MGD): 36

Estimated construction start date: May 2026

Estimated waste disposal start date: June 2028

D. Final Phase

Design Flow (MGD): 12

2-Hr Peak Flow (MGD): 48

Estimated construction start date: 2030

Estimated waste disposal start date: 2032

E. Current Operating Phase

Provide the startup date of the facility: 3.0 MGD phase in service 2006, 4.5 MGD expanded phase in service March 2022

Section 2. Treatment Process (Instructions Page 43)

A. Current Operating Phase

Provide a detailed description of the treatment process. **Include the type of treatment plant, mode of operation, and all treatment units.** Start with the plant's head works and finish with the point of discharge. Include all sludge processing and drying units. **If more than one phase exists or is proposed, a description of *each phase* must be provided**.

Existing/Interim I Phase: The wastewater treatment plant consists of mechanical fine screens, influent pumping, conventional activated sludge treatment, clarification, UV disinfection, post aeration and aerobic digestion for the solids. The activated sludge treatment is split in two plants. The first plant consists of two circular bullseye package treatment units. The second plant consists of rectangular conventional activated sludge aeration basins with two secondary clarifiers. The treated effluent is discharged via pipeline into Plum Creek. The aerobically digested sludge is mechanically dewatered and transported by K-3BMI to Second Nature.

Interim II Phase: The expansion will incorporate unit processes to increase the hydraulic capacity of the treatment plant and to implement chemical phosphorus removal. The expansion will include the addition of two conventional activated sludge aeration basins, an additional secondary clarifier, a new rapid mix basin and aluminum sulfate chemical system, the construction of four new cloth media filters, installation of two additional UV disinfection banks. The treated effluent is discharged via pipeline into Plum Creek. The solids handling process will remain the same.

Interim III Phase: The expansion will incorporate same unit processes to increase the hydraulic capacity of the treatment plant and will implement grit removal and odor control. The expansion will include adding two mechanical screen units, two new influent pumps, construction of a new grit building and the addition of 2 new stacked tray grit removal units, the addition of sodium hydroxide for supplemental alkalinity and odor control. The expansion also includes six new activated sludge basins designed for biological phosphorus removal along with the retrofit of the four existing aeration basins to incorporate biological phosphorus removal, three new secondary clarifiers, expansion of the rapid mix capacity and the post-aeration channels. The treated effluent is discharged via pipeline into Plum Creek with intermittent pumping, if needed, during flood events. The expansion will construct four new aerobic digesters and continue to mechanically dewater and have K-3BMI transport to Second Nature.

Final Phase: The final expansion will maintain the same unit processes as the existing phase. The expansion will include replacing four of the existing influent pumps to increase capacity, the addition of a third stacked tray grit removal unit, construction of four new activated sludge basins designed for biological phosphorus removal, construction of 2 new secondary clarifiers, and the expansion of the UV disinfection system. The treated effluent will be discharged via gravity or intermittent effluent pumps with intermittent pumping, if needed, during flood events into Plum Creek. The solids handling will be expanded with the addition of two 2 new aerobic digesters.

B. Treatment Units

In Table 1.0(1), provide the treatment unit type, the number of units, and dimensions (length, width, depth) **of each treatment unit, accounting for *all* phases of operation.**

Table 1.0(1) - Treatment Units

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
EXISTING/INTERIM I PHASE		
Screening	2	36 ft x 4 ft x 26 ft per channel
Influent Lift Station	4	6.0 MGD, each pump
Aeration Basins	2	214 ft x 25 ft x 15 ft
Bullseye Aeration (Volume)	2	146,903 cu.ft.

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Secondary Clarifiers (Circular)	2	70 ft Diam x 15 ft Depth
Bullseye Clarifier (Circular)	2	86 ft Diam x 15 ft Depth
RAS/WAS Wetwell	1	11 ft x 22 ft x 9 ft
Scum Wetwell	1	7 ft x 7 ft x 7 ft
UV Disinfection	2	38 ft x 4 ft x 6 ft
Post Aeration	2	30 ft x 12 ft x 12 ft
Aerobic Digestion	4	100 ft x 35 ft x 18 ft
Mechanical Dewatering	1	3.0-Meter BFP
INTERIM II PHASE		
Screening	2	36 ft x 4 ft x 26 ft per channel
Influent Lift Station	4 plus onsite backup	6.0 MGD per pump
Aeration Basins	4	214 ft x 25 ft x 15 ft
Bullseye Aeration (Volume)	2	146,903 cu.ft.
Secondary Clarifiers (Circular)	3	70 ft Diam x 15 ft Depth
Bullseye Clarifier (Circular)	2	86 ft Diam x 15 ft Depth
RAS/WAS Wetwell	1	11 ft x 22 ft x 9 ft
Scum Wetwell	2	7 ft x 7 ft x 7 ft
Rapid Mix Basin	2	70 ft x 11 ft x 14.5 ft
Cloth Media Filters	4	16 ft x 30ft x 14.5 ft
UV Disinfection	2	38 ft x 4 ft x 6 ft
Post Aeration	2	30 ft x 12 ft x 12 ft
Aerobic Digestion	4	100 ft x 35 ft x 18 ft
Mechanical Dewatering	1	3.0-Meter BFP
INTERIM III PHASE		
Screening	4	36 ft x 4 ft x 26 ft per channel
Influent Lift Station	6	4-6.0 MGD, 2-8.0 MGD
Grit Removal	2	12 ft Diam x 20.5 ft Height
Aeration Basins	10	214 ft x 25 ft x 15 ft
Bullseye Aeration (Volume)	2	146,903 cu.ft.
Secondary Clarifiers (Circular)	6	70 ft Diam x 15 ft Depth
Bullseye Clarifier (Circular)	2	86 ft Diam x 15 ft Depth
RAS/WAS Wetwell	2	11 ft x 22 ft x 9 ft

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Scum Wetwell	3	7 ft x 7 ft x 7 ft
Rapid Mix Basin	4	70 ft x 11 ft x 14.5 ft
Cloth Media Filters	4	16 ft x 30ft x 14.5 ft
UV Disinfection	3	38 ft x 4 ft x 6 ft
Post Aeration Intermittent Effluent Pumping, if necessary (36.0 MGD)	3	30 ft x 12 ft x 12 ft
Aerobic Digestion	8	100 ft x 35 ft x 18 ft
Mechanical Dewatering	1	3.0-Meter BFP
FINAL PHASE		
Screening	4	36 ft x 4 ft x 26 ft per channel
Influent Lift Station	6	8.0 MGD, each pump
Grit Removal	3	12 ft Diam x 20.5 ft Height
Aeration Basins	14	214 ft x 25 ft x 15 ft
Bullseye Aeration (Volume)	2	146,903 cu.ft.
Secondary Clarifiers (Circular)	8	70 ft Diam x 15 ft Depth
Bullseye Clarifier (Circular)	2	86 ft Diam x 15 ft Depth
RAS/WAS Wetwell	2	11 ft x 22 ft x 9 ft
Scum Wetwell	4	7 ft x 7 ft x 7 ft
Rapid Mix Basin	4	70 ft x 11 ft x 14.5 ft
Cloth Media Filters	4	16 ft x 30ft x 14.5 ft
UV Disinfection	4	38 ft x 4 ft x 6 ft
Post Aeration	10	30 ft x 12 ft x 12 ft
Intermittent Effluent Pump Station	4	16.0 MGD, each pump
Aerobic Digestion	6	100 ft x 35 ft x 18 ft
Mechanical Dewatering	1	3.0-Meter BFP

C. Process Flow Diagram

Provide flow diagrams for the existing facilities and **each** proposed phase of construction.

Attachment: Attachment 6: Process Flow Diagram

Section 3. Site Information and Drawing (Instructions Page 44)

Provide the TPDES discharge outfall latitude and longitude. Enter N/A if not applicable.

- Latitude: 29.96777778
- Longitude: -97.83527778

Provide the TLAP disposal site latitude and longitude. Enter N/A if not applicable.

- Latitude: N/A
- Longitude: N/A

Provide a site drawing for the facility that shows the following:

- The boundaries of the treatment facility;
- The boundaries of the area served by the treatment facility;
- If land disposal of effluent, the boundaries of the disposal site and all storage/holding ponds; and
- If sludge disposal is authorized in the permit, the boundaries of the land application or disposal site.

Attachment: Attachment 7: Site Drawing

Provide the name **and** a description of the area served by the treatment facility.

City of Kyle, CCN Service Area 20410

Collection System Information **for wastewater TPDES permits only**: Provide information for each **uniquely owned** collection system, existing and new, served by this facility, including satellite collection systems. **Please see the instructions for a detailed explanation and examples.**

Collection System Information

Collection System Name	Owner Name	Owner Type	Population Served
Kyle Wastewater Collection System	City of Kyle	Publicly Owned	130,000
		Choose an item.	
		Choose an item.	
		Choose an item.	

Section 4. Unbuilt Phases (Instructions Page 45)

Is the application for a renewal of a permit that contains an unbuilt phase or phases?

☐ Yes ☒ No

If yes, does the existing permit contain a phase that has not been constructed **within five years** of being authorized by the TCEQ?

☐ Yes ☐ No

If yes, provide a detailed discussion regarding the continued need for the unbuilt phase. **Failure to provide sufficient justification may result in the Executive Director recommending denial of the unbuilt phase or phases**.

N/A

Section 5. Closure Plans (Instructions Page 45)

Have any treatment units been taken out of service permanently, or will any units be taken out of service in the next five years?

☐ Yes ☒ No

If yes, was a closure plan submitted to the TCEQ?

☐ Yes ☐ No

If yes, provide a brief description of the closure and the date of plan approval.

N/A

Section 6. Permit Specific Requirements (Instructions Page 45)

For applicants with an existing permit, check the Other Requirements or Special Provisions of the permit.

A. Summary transmittal

Have plans and specifications been approved for the existing facilities and each proposed phase?

☒ Yes ☐ No

If yes, provide the date(s) of approval for each phase: January 30, 2022

Provide information, including dates, on any actions taken to meet a *requirement or provision* pertaining to the submission of a summary transmittal letter. **Provide a copy of an approval letter from the TCEQ, if applicable**.

A summary transmittal approval letter for Interim I phase, dated January 30, 2022, is available at the plant. Summary transmittal letters for the interim and final phases will be submitted for TCEQ approval following design, as required.

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

Provide information below, including dates, on any actions taken to meet the conditions of the buffer zone. If available, provide any new documentation relevant to maintaining the buffer zones.

Attachment 4: Buffer Zone Map

C. Other actions required by the current permit

Does the *Other Requirements* or *Special Provisions* section in the existing permit require submission of any other information or other required actions? Examples include Notification of Completion, progress reports, soil monitoring data, etc.

☒ Yes ☐ No

If yes, provide information below on the status of any actions taken to meet the conditions of an *Other Requirement* or *Special Provision*.

N/A at this time. Following design of the interim and final phases, summary transmittal letters will be submitted as required. Prior to the completion of construction of the interim and final phases Notification of Completion forms will be submitted as required.

D. Grit and grease treatment

1. Acceptance of grit and grease waste

Does the facility have a grit and/or grease processing facility onsite that treats and decants or accepts transported loads of grit and grease waste that are discharged directly to the wastewater treatment plant prior to any treatment?

☐ Yes ☒ No

If No, stop here and continue with Subsection E. Stormwater Management.

2. Grit and grease processing

Describe below how the grit and grease waste is treated at the facility. In your description, include how and where the grit and grease is introduced to the treatment works and how it is separated or processed. Provide a flow diagram showing how grit and grease is processed at the facility.

Click to enter text.

3. *Grit disposal*

Does the facility have a Municipal Solid Waste (MSW) registration or permit for grit disposal?

☐ Yes ☒ No

If No, contact the TCEQ Municipal Solid Waste team at 512-239-2335. Note: A registration or permit is required for grit disposal. Grit shall not be combined with treatment plant sludge. See the instruction booklet for additional information on grit disposal requirements and restrictions.

Describe the method of grit disposal.

Click to enter text.

4. *Grease and decanted liquid disposal*

Note: A registration or permit is required for grease disposal. Grease shall not be combined with treatment plant sludge. For more information, contact the TCEQ Municipal Solid Waste team at 512-239-2335.

Describe how the decant and grease are treated and disposed of after grit separation.

Click to enter text.

E. Stormwater management

1. *Applicability*

Does the facility have a design flow of 1.0 MGD or greater in any phase?

☒ Yes ☐ No

Does the facility have an approved pretreatment program, under 40 CFR Part 403?

☐ Yes ☒ No

If no to both of the above, then skip to Subsection F, Other Wastes Received.

2. MSGP coverage

Is the stormwater runoff from the WWTP and dedicated lands for sewage disposal currently permitted under the TPDES Multi-Sector General Permit (MSGP), TXR050000?

☐ Yes ☒ No

If yes, please provide MSGP Authorization Number and skip to Subsection F, Other Wastes Received:

TXR05 DE30 or TXRNE Click to enter text.

If no, do you intend to seek coverage under TXR050000?

☐ Yes ☒ No

3. Conditional exclusion

Alternatively, do you intend to apply for a conditional exclusion from permitting based TXR050000 (Multi Sector General Permit) Part II B.2 or TXR050000 (Multi Sector General Permit) Part V, Sector T 3(b)?

☐ Yes ☒ No

If yes, please explain below then proceed to Subsection F, Other Wastes Received:

Click to enter text.

4. Existing coverage in individual permit

Is your stormwater discharge currently permitted through this individual TPDES or TLAP permit?

☐ Yes ☒ No

If yes, provide a description of stormwater runoff management practices at the site that are authorized in the wastewater permit then skip to Subsection F, Other Wastes Received.

Click to enter text.

5. Zero stormwater discharge

Do you intend to have no discharge of stormwater via use of evaporation or other means?

☐ Yes ☒ No

If yes, explain below then skip to Subsection F. Other Wastes Received.

Click to enter text.

Note: If there is a potential to discharge any stormwater to surface water in the state as the result of any storm event, then permit coverage is required under the MSGP or an individual discharge permit. This requirement applies to all areas of facilities with treatment plants or systems that treat, store, recycle, or reclaim domestic sewage, wastewater or sewage sludge (including dedicated lands for sewage sludge disposal located within the onsite property boundaries) that meet the applicability criteria of above. You have the option of obtaining coverage under the MSGP for direct discharges, (recommended), or obtaining coverage under this individual permit.

6. Request for coverage in individual permit

Are you requesting coverage of stormwater discharges associated with your treatment plant under this individual permit?

☐ Yes ☒ No

If yes, provide a description of stormwater runoff management practices at the site for which you are requesting authorization in this individual wastewater permit and describe whether you intend to comingle this discharge with your treated effluent or discharge it via a separate dedicated stormwater outfall. Please also indicate if you intend to divert stormwater to the treatment plant headworks and indirectly discharge it to water in the state.

City of Kyle has an individual industrial stormwater permit for the plant site, WQ0005393000.

Note: Direct stormwater discharges to waters in the state authorized through this individual permit will require the development and implementation of a stormwater pollution prevention plan (SWPPP) and will be subject to additional monitoring and reporting requirements. Indirect discharges of stormwater via headworks recycling will require compliance with all individual permit requirements including 2-hour peak flow limitations. All stormwater discharge authorization requests will require additional information during the technical review of your application.

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

If yes, attach a Sewage Sludge Solids Management Plan. See Example 5 in the instructions.
Click to enter text.

G. Other wastes received including sludge from other WWTPs and septic waste

1. Acceptance of sludge from other WWTPs

Does or will the facility accept sludge from other treatment plants at the facility site?

☐ Yes ☒ No

If yes, attach sewage sludge solids management plan. See Example 5 of instructions.

In addition, provide the date the plant started or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an estimate of the BOD_5 concentration of the sludge, and the design BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

Click to enter text.

Note: Permits that accept sludge from other wastewater treatment plants may be required to have influent flow and organic loading monitoring.

2. ***Acceptance of septic waste***

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

If yes, does the facility have a Type V processing unit?

☐ Yes ☒ No

If yes, does the unit have a Municipal Solid Waste permit?

☐ Yes ☒ No

If yes to any of the above, provide the date the plant started or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the BOD_5 concentration of the septic waste, and the design BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

Click to enter text.

Note: Permits that accept sludge from other wastewater treatment plants may be required to have influent flow and organic loading monitoring.

3. ***Acceptance of other wastes (not including septic, grease, grit, or RCRA, CERCLA or as discharged by IUs listed in Worksheet 6)***

Is or will the facility accept wastes that are not domestic in nature excluding the categories listed above?

☐ Yes ☒ No

If yes, provide the date that the plant started accepting the waste, an estimate how much waste is accepted on a monthly basis (gallons or millions of gallons), a description of the entities generating the waste, and any distinguishing chemical or other physical characteristic of the waste. Also note if this information has or has not changed since the last permit action.

Click to enter text.

Section 7. Pollutant Analysis of Treated Effluent (Instructions Page 50)

Is the facility in operation?

☒ Yes ☐ No

If no, this section is not applicable. Proceed to Section 8.

If yes, provide effluent analysis data for the listed pollutants. ***Wastewater treatment facilities*** complete Table 1.0(2). **W*ater treatment facilities*** discharging filter backwash water, complete Table 1.0(3). Provide copies of the laboratory results sheets. **These tables are not applicable for a minor amendment without renewal.** See the instructions for guidance.

Note: The sample date must be within 1 year of application submission.

Table1.0(2) – Pollutant Analysis for Wastewater Treatment Facilities

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l					
Total Suspended Solids, mg/l					
Ammonia Nitrogen, mg/l					
Nitrate Nitrogen, mg/l					
Total Kjeldahl Nitrogen, mg/l					
Sulfate, mg/l					
Chloride, mg/l					
Total Phosphorus, mg/l					
pH, standard units					
Dissolved Oxygen*, mg/l					
Chlorine Residual, mg/l					
E.coli (CFU/100ml) freshwater					
Entercocci (CFU/100ml) saltwater					
Total Dissolved Solids, mg/l					
Electrical Conductivity, µmohs/cm, †					
Oil & Grease, mg/l					
Alkalinity ($CaCO_3$)*, mg/l					

*TPDES permits only
†TLAP permits only

Table1.0(3) – Pollutant Analysis for Water Treatment Facilities

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Total Suspended Solids, mg/l					
Total Dissolved Solids, mg/l					
pH, standard units					

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Fluoride, mg/l					
Aluminum, mg/l					
Alkalinity ($CaCO_3$), mg/l					

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Robert Defreitas

Facility Operator's License Classification and Level: Wastewater Treatment Operator "A"

Facility Operator's License Number: WW0007573

Section 9. Sludge and Biosolids Management and Disposal (Instructions Page 51)

A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

- ☒ Design flow>= 1 MGD
- ☒ Serves >= 10,000 people
- ☐ Class I Sludge Management Facility (per 40 CFR § 503.9)
- ☐ Biosolids generator
- ☐ Biosolids end user – land application (onsite)
- ☐ Biosolids end user – surface disposal (onsite)
- ☐ Biosolids end user – incinerator (onsite)

B. WWTP's Biosolids Treatment Process

Check all that apply. See instructions for guidance.

- ☒ Aerobic Digestion
- ☐ Air Drying (or sludge drying beds)
- ☐ Lower Temperature Composting
- ☐ Lime Stabilization
- ☐ Higher Temperature Composting
- ☐ Heat Drying
- ☐ Thermophilic Aerobic Digestion
- ☐ Beta Ray Irradiation
- ☐ Gamma Ray Irradiation
- ☐ Pasteurization
- ☐ Preliminary Operation (e.g. grinding, de-gritting, blending)
- ☐ Thickening (e.g. gravity thickening, centrifugation, filter press, vacuum filter)

☐ Sludge Lagoon

☐ Temporary Storage (< 2 years)

☐ Long Term Storage (>= 2 years)

☐ Methane or Biogas Recovery

☐ Other Treatment Process: Click to enter text.

C. Biosolids Management

Provide information on the *intended* biosolids management practice. Do not enter every management practice that you want authorized in the permit, as the permit will authorize all biosolids management practices listed in the instructions. Rather indicate the management practice the facility plans to use.

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Other	Off-site Third-Party Preparer	Bulk aerobically digested semi-liquid sludge	46 dry metric tons/day	N/A, Transported to another facility for further processing	N/A, Transported to another facility for further processing
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.

If "Other" is selected for Management Practice, please explain (e.g. monofill or transport to another WWTP): transport to a TCEQ authorized facility for further sludge processing

D. Disposal site

Disposal site name: Second Nature

TCEQ permit or registration number: 42044

County where disposal site is located: Bexar County

E. Transportation method

Method of transportation (truck, train, pipe, other): Truck

Name of the hauler: K-3BMI

Hauler registration number: 22430

Sludge is transported as a:

Liquid ☐ semi-liquid ☐ semi-solid ☒ solid ☐

Section 10. Permit Authorization for Sewage Sludge Disposal

(Instructions Page 53)

A. Beneficial use authorization

Does the existing permit include authorization for land application of sewage sludge for beneficial use?

☐ Yes ☒ No

If yes, are you requesting to continue this authorization to land apply sewage sludge for beneficial use?

☐ Yes ☐ No

If yes, is the completed **Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451)** attached to this permit application (see the instructions for details)?

☐ Yes ☐ No

B. Sludge processing authorization

Does the existing permit include authorization for any of the following sludge processing, storage or disposal options?

Sludge Composting	☐ Yes	☒ No
Marketing and Distribution of sludge	☐ Yes	☒ No
Sludge Surface Disposal or Sludge Monofill	☐ Yes	☒ No
Temporary storage in sludge lagoons	☐ Yes	☒ No

If yes to any of the above sludge options and the applicant is requesting to continue this authorization, is the completed **Domestic Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056)** attached to this permit application?

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

If yes, complete the remainder of this section. If no, proceed to Section 12.

A. Location information

The following maps are required to be submitted as part of the application. For each map, provide the Attachment Number.

- Original General Highway (County) Map:

  Attachment: Click to enter text.
- USDA Natural Resources Conservation Service Soil Map:

  Attachment: Click to enter text.
- Federal Emergency Management Map:

  Attachment: Click to enter text.
- Site map:

Attachment: Click to enter text.

Discuss in a description if any of the following exist within the lagoon area. Check all that apply.

- ☐ Overlap a designated 100-year frequency flood plain
- ☐ Soils with flooding classification
- ☐ Overlap an unstable area
- ☐ Wetlands
- ☐ Located less than 60 meters from a fault
- ☐ None of the above

Attachment: Click to enter text.

If a portion of the lagoon(s) is located within the 100-year frequency flood plain, provide the protective measures to be utilized including type and size of protective structures:

Click to enter text.

B. Temporary storage information

Provide the results for the pollutant screening of sludge lagoons. These results are in addition to pollutant results in *Section 7 of Technical Report 1.0.*

Nitrate Nitrogen, mg/kg: Click to enter text.

Total Kjeldahl Nitrogen, mg/kg: Click to enter text.

Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: Click to enter text.

Phosphorus, mg/kg: Click to enter text.

Potassium, mg/kg: Click to enter text.

pH, standard units: Click to enter text.

Ammonia Nitrogen mg/kg: Click to enter text.

Arsenic: Click to enter text.

Cadmium: Click to enter text.

Chromium: Click to enter text.

Copper: Click to enter text.

Lead: Click to enter text.

Mercury: Click to enter text.

Molybdenum: Click to enter text.

Nickel: Click to enter text.

Selenium: Click to enter text.

Zinc: Click to enter text.

Total PCBs: Click to enter text.

Provide the following information:

Volume and frequency of sludge to the lagoon(s): Click to enter text.

Total dry tons stored in the lagoons(s) per 365-day period: Click to enter text.

Total dry tons stored in the lagoons(s) over the life of the unit: Click to enter text.

C. Liner information

Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of $1x10^{-7}$ cm/sec?

☐ Yes ☐ No

If yes, describe the liner below. Please note that a liner is required.

Click to enter text.

D. Site development plan

Provide a detailed description of the methods used to deposit sludge in the lagoon(s):

Click to enter text.

Attach the following documents to the application.

- Plan view and cross-section of the sludge lagoon(s)

  Attachment: Click to enter text.
- Copy of the closure plan

  Attachment: Click to enter text.
- Copy of deed recordation for the site

  Attachment: Click to enter text.
- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons

  Attachment: Click to enter text.
- Description of the method of controlling infiltration of groundwater and surface water from entering the site

  Attachment: Click to enter text.
- Procedures to prevent the occurrence of nuisance conditions

  Attachment: Click to enter text.

E. Groundwater monitoring

Is groundwater monitoring currently conducted at this site, or are any wells available for groundwater monitoring, or are groundwater monitoring data otherwise available for the sludge lagoon(s)?

☐ Yes ☐ No

If groundwater monitoring data are available, provide a copy. Provide a profile of soil types encountered down to the groundwater table and the depth to the shallowest groundwater as a separate attachment.

Attachment: Click to enter text.

Section 12. Authorizations/Compliance/Enforcement (Instructions Page 55)

A. Additional authorizations

Does the permittee have additional authorizations for this facility, such as reuse authorization, sludge permit, etc?

☒ Yes ☐ No

If yes, provide the TCEQ authorization number and description of the authorization:

210 Authorization No. R11041-002 Type II reclaimed water can be used for golf course irrigation, irrigation of medians, dust suppression and soil compaction for construction.

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☒ Yes ☐ No

Is the permittee required to meet an implementation schedule for compliance or enforcement?

☒ Yes ☐ No

If yes to either question, provide a brief summary of the enforcement, the implementation schedule, and the current status:

The City was issued a proposed agreed order on July 17, 2024 for four violations associated with this facility. At the City's request, the case was moved to the Litigation Division for further discussion of the violations. TCEQ issued an Executive Director's Preliminary Report and Petition on April 22, 2025, and following discussions with the Enforcement and Litigation Division, the City is currently working to apply for a compliance supplemental environmental project ("SEP"). Following approval of the SEP and TCEQ Commission approval of the final agreed order, the City will submit the required progress reports detailing the status of the project, as well as documentation demonstrating compliance with the ordering provisions.

Section 13. RCRA/CERCLA Wastes (Instructions Page 55)

A. RCRA hazardous wastes

Has the facility received in the past three years, does it currently receive, or will it receive RCRA hazardous waste?

☐ Yes ☒ No

B. Remediation activity wastewater

Has the facility received in the past three years, does it currently receive, or will it receive CERCLA wastewater, RCRA remediation/corrective action wastewater or other remediation activity wastewater?

☐ Yes ☒ No

C. Details about wastes received

If yes to either Subsection A or B above, provide detailed information concerning these wastes with the application.

Attachment: Click to enter text.

Section 14. Laboratory Accreditation (Instructions Page 56)

All laboratory tests performed must meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification*, which includes the following general exemptions from National Environmental Laboratory Accreditation Program (NELAP) certification requirements:

- The laboratory is an in-house laboratory and is:
  - periodically inspected by the TCEQ; or
  - located in another state and is accredited or inspected by that state; or
  - performing work for another company with a unit located in the same site; or
  - performing pro bono work for a governmental agency or charitable organization.
- The laboratory is accredited under federal law.
- The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.
- The laboratory supplies data for which the TCEQ does not offer accreditation.

The applicant should review 30 TAC Chapter 25 for specific requirements.

The following certification statement shall be signed and submitted with every application. See the Signature Page section in the Instructions, for a list of designated representatives who may sign the certification.

CERTIFICATION:

I certify that all laboratory tests submitted with this application meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.*

Printed Name: Click to enter text.

Title: Click to enter text.

Signature: _____

Date: _____

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

Section 1. Domestic Drinking Water Supply (Instructions Page 64)

Is there a surface water intake for domestic drinking water supply located within 5 miles downstream from the point or proposed point of discharge?

☐ Yes ☒ No

If **no**, proceed it Section 2. **If yes**, provide the following:

Owner of the drinking water supply: Click to enter text.

Distance and direction to the intake: Click to enter text.

Attach a USGS map that identifies the location of the intake.

Attachment: Click to enter text.

Section 2. Discharge into Tidally Affected Waters (Instructions Page 64)

Does the facility discharge into tidally affected waters?

☐ Yes ☒ No

If **no**, proceed to Section 3. **If yes**, complete the remainder of this section. If no, proceed to Section 3.

A. Receiving water outfall

Width of the receiving water at the outfall, in feet: Click to enter text.

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

☐ Yes ☐ No

If yes, provide the distance and direction from outfall(s).

Click to enter text.

C. Sea grasses

Are there any sea grasses within the vicinity of the point of discharge?

☐ Yes ☐ No

If yes, provide the distance and direction from the outfall(s).

Click to enter text.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

The following **is required** for **all publicly owned treatment works**.

Section 1. All POTWs (Instructions Page 89)

A. Industrial users (IUs)

Provide the number of each of the following types of industrial users (IUs) that discharge to your POTW and the daily flows from each user. See the Instructions for definitions of Categorical IUs, Significant IUs – non-categorical, and Other IUs.

If there are no users, enter 0 (zero).

Categorical IUs:

Number of IUs: 0

Average Daily Flows, in MGD: N/A

Significant IUs – non-categorical:

Number of IUs: 3

Average Daily Flows, in MGD: 0.0096

Other IUs:

Number of IUs: 0

Average Daily Flows, in MGD: N/A

B. Treatment plant interference

In the past three years, has your POTW experienced treatment plant interference (see instructions)?

☐ Yes ☒ No

If yes, identify the dates, duration, description of interference, and probable cause(s) and possible source(s) of each interference event. Include the names of the IUs that may have caused the interference.

Click to enter text.

C. Treatment plant pass through

In the past three years, has your POTW experienced pass through (see instructions)?

☐ Yes ☒ No

If yes, identify the dates, duration, a description of the pollutants passing through the treatment plant, and probable cause(s) and possible source(s) of each pass through event. Include the names of the IUs that may have caused pass through.

Click to enter text.

D. Pretreatment program

Does your POTW have an approved pretreatment program?

☐ Yes ☒ No

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

☐ Yes ☒ No

If yes, complete Section 2.c. and 2.d. only, and skip Section 3.

If no to either question above, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user.

Section 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 90)

A. Substantial modifications

Have there been any **substantial modifications** to the approved pretreatment program that have not been submitted to the TCEQ for approval according to *40 CFR §403.18*?

☐ Yes ☐ No

If yes, identify the modifications that have not been submitted to TCEQ, including the purpose of the modification.

Click to enter text.

B. Non-substantial modifications

Have there been any **non-substantial modifications** to the approved pretreatment program that have not been submitted to TCEQ for review and acceptance?

☐ Yes ☐ No

If yes, identify all non-substantial modifications that have not been submitted to TCEQ, including the purpose of the modification.

Click to enter text.

C. Effluent parameters above the MAL

In Table 6.0(1), list all parameters measured above the MAL in the POTW's effluent monitoring during the last three years. Submit an attachment if necessary.

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date

D. Industrial user interruptions

Has any SIU, CIU, or other IU caused or contributed to any problems (excluding interferences or pass throughs) at your POTW in the past three years?

☐ Yes ☐ No

If yes, identify the industry, describe each episode, including dates, duration, description of the problems, and probable pollutants.

Click to enter text.

Section 3. Significant Industrial User (SIU) Information and Categorical

Industrial User (CIU) (Instructions Page 90)

A. General information

Company Name: ALSCO

SIC Code: 7213

Contact name: Anthony Wessels

Address: 449 Vista Ridge Dr.

City, State, and Zip Code: Kyle, Tx, 78640

Telephone number: 512-937-6161

Email address: Click to enter text.

B. Process information

Describe the industrial processes or other activities that affect or contribute to the SIU(s) or CIU(s) discharge (i.e., process and non-process wastewater).

Industrial linen rental. Liquid waste is removed from wastewater by filtration process.

C. Product and service information

Provide a description of the principal product(s) or services performed.

Industrial laundry operation which includes washing, drying and ironing. The facility uses alkali, soap detergent, antichlorine, sodium fluorosilicate, alkaline surfactants, sodium lignosulfonate, bleach and biocide (mildew preventive) for its laundry operations.

D. Flow rate information

See the Instructions for definitions of "process" and "non-process wastewater."

Process Wastewater:

Discharge, in gallons/day: 140,000

Discharge Type: ☐ Continuous ☒ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: 3,960

Discharge Type: ☒ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

Is the SIU or CIU subject to technically based local limits as defined in the *i*nstructions?

☐ Yes ☒ No

Is the SIU or CIU subject to categorical pretreatment standards found in *40 CFR Parts 405-471*?

☐ Yes ☒ No

If subject to categorical pretreatment standards, indicate the applicable category and subcategory for each categorical process.

Category: Subcategories: Click to enter text.

Click or tap here to enter text. Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

F. Industrial user interruptions

Has the SIU or CIU caused or contributed to any problems (e.g., interferences, pass through, odors, corrosion, blockages) at your POTW in the past three years?

☐ Yes ☒ No

If yes, identify the SIU, describe each episode, including dates, duration, description of problems, and probable pollutants.

Click to enter text.

Texas Commission on Environmental Quality

Update Domestic or Industrial Individual Permit

WQ0011041002

Site Information (Regulated Entity)

What is the name of the site to be authorized?	CITY OF KYLE WWTP
Does the site have a physical address?	Yes
Physical Address	
Number and Street	941 NEW BRIDGE DR
City	KYLE
State	TX
ZIP	78640
County	HAYS
Latitude (N) (##.######)	29.967777
Longitude (W) (-###.######)	-97.835277
Primary SIC Code	4952
Secondary SIC Code	
Primary NAICS Code	
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	RN102182680
What is the name of the Regulated Entity (RE)?	CITY OF KYLE WWTP
Does the RE site have a physical address?	Yes
Physical Address	
Number and Street	941 NEW BRIDGE DR
City	KYLE
State	TX
ZIP	78640
County	HAYS
Latitude (N) (##.######)	29.967234
Longitude (W) (-###.######)	-97.837647
Facility NAICS Code	
What is the primary business of this entity?	DOMESTIC

City of-Customer (Applicant) Information (Owner)

How is this applicant associated with this site?	Owner
What is the applicant's Customer Number (CN)?	CN600334510
Type of Customer	City Government
Full legal name of the applicant:	
Legal Name	City of Kyle
Texas SOS Filing Number	
Federal Tax ID	
State Franchise Tax ID	
State Sales Tax ID	
Local Tax ID	

DUNS Number	
Number of Employees	
Independently Owned and Operated?	
I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas.	Yes
Responsible Authority Contact	
Organization Name	City of Kyle
Prefix	MR
First	Travis
Middle	
Last	Mitchell
Suffix	
Credentials	
Title	Mayor
Responsible Authority Mailing Address	
Enter new address or copy one from list:	RE Physical Address
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	941 NEW BRIDGE DR
Routing (such as Mail Code, Dept., or Attn:)	
City	KYLE
State	TX
ZIP	78640
Phone (###-###-####)	5122621010
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	tmitchell@cityofkyle.com

Billing Contact

Responsible contact for receiving billing statements:	
Select the permittee that is responsible for payment of the annual fee.	CN600334510, City of Kyle
Organization Name	CITY OF KYLE
Prefix	MR
First	PERWEZ
Middle	
Last	MOHEET
Suffix	
Credentials	CPA
Title	DIRECTOR OF FINANCE
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	100 W CENTER ST
Routing (such as Mail Code, Dept., or Attn:)	
City	KYLE
State	TX
ZIP	78640
Phone (###-###-####)	5122621010

Extension	3952
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	PMOHEET@CITYOFKYLE.COM

Application Contact

Person TCEQ should contact for questions about this application:	
Same as another contact?	
Organization Name	CITY OF KYLE
Prefix	MR
First	Robert
Middle	
Last	Defreitas
Suffix	
Credentials	
Title	Division Manager of Treatment Operations
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	520 E FM 150
Routing (such as Mail Code, Dept., or Attn:)	
City	KYLE
State	TX
ZIP	78640
Phone (###-###-####)	5122144564
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	rdefreitas@cityofkyle.com

Technical Contact

Person TCEQ should contact for questions about this application:	
Same as another contact?	
Organization Name	CITY OF KYLE
Prefix	MR
First	Robert
Middle	
Last	Defreitas
Suffix	
Credentials	
Title	DIVISION MANAGER OF TREATMENT OPERATIONS
Enter new address or copy one from list:	Application Contact Address
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	520 E FM 150

Routing (such as Mail Code, Dept., or Attn:)	
City	KYLE
State	TX
ZIP	78640
Phone (###-###-####)	5122144564
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	rdefreitas@cityofkyle.com

DMR Contact

Person responsible for submitting Discharge Monitoring Report Forms:

Same as another contact?	Technical Contact
Organization Name	CITY OF KYLE
Prefix	MR
First	Robert
Middle	
Last	Defreitas
Suffix	
Credentials	
Title	DIVISION MANAGER OF TREATMENT OPERATIONS
Enter new address or copy one from list:	

Mailing Address:

Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	520 E FM 150
Routing (such as Mail Code, Dept., or Attn:)	
City	KYLE
State	TX
ZIP	78640
Phone (###-###-####)	5122144564
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	rdefreitas@cityofkyle.com

Section 1# Permit Contact

Permit Contact#: 1

Person TCEQ should contact throughout the permit term.

1) Same as another contact?	Technical Contact
2) Organization Name	CITY OF KYLE
3) Prefix	MR
4) First	Robert
5) Middle	
6) Last	Defreitas
7) Suffix	

8) Credentials	
9) Title	DIVISION MANAGER OF TREATMENT OPERATIONS
Mailing Address	
10) Enter new address or copy one from list	
11) Address Type	Domestic
11.1) Mailing Address (include Suite or Bldg. here, if applicable)	520 E FM 150
11.2) Routing (such as Mail Code, Dept., or Attn:)	
11.3) City	KYLE
11.4) State	TX
11.5) ZIP	78640
12) Phone (###-###-####)	5122144564
13) Extension	
14) Alternate Phone (###-###-####)	
15) Fax (###-###-####)	
16) E-mail	rdefreitas@cityofkyle.com

Owner Information

Owner of Treatment Facility	
1) Prefix	
2) First and Last Name	
3) Organization Name	City of Kyle
4) Mailing Address	100 W. Center St.
5) City	Kyle
6) State	TX
7) Zip Code	78640
8) Phone (###-###-####)	5122621010
9) Extension	
10) Email	tmitchell@cityofkyle.com
11) What is ownership of the treatment facility?	Public
Owner of Land (where treatment facility is or will be)	
12) Prefix	
13) First and Last Name	
14) Organization Name	City of Kyle
15) Mailing Address	100 W. Center St.
16) City	Kyle
17) State	TX
18) Zip Code	78640
19) Phone (###-###-####)	5122621010
20) Extension	
21) Email	tmitchell@cityofkyle.com
22) Is the landowner the same person as the facility owner or co-applicant?	Yes

General Information Renewal-Amendment

1) Current authorization expiration date:	02/05/2028
2) Current Facility operational status:	Active

3) Is the facility located on or does the treated effluent cross American Indian Land?	No
4) What is the application type that you are seeking?	Minor Amendment without Renewal
4.1) Describe the proposed changes:	Add to permit an Interim Capacity of 6.0 MGD and correct the Final Phase Peak 2-hr Flow to 48.0 MGD 33,333 gpm.
5) Current Authorization type:	Public Domestic Wastewater
5.1) What is the proposed total flow in MGD discharged at the facility?	48
5.2) Select the applicable fee	Minor Amendment or Modification - $150
6) What is the classification for your authorization?	TPDES
6.1) What is the EPA Identification Number?	TX0119466
6.2) Is the wastewater treatment facility location in the existing permit accurate?	Yes
6.3) Are the point(s) of discharge and the discharge route(s) in the existing permit correct?	Yes
6.4) City nearest the outfall(s):	Kyle
6.5) County where the outfalls are located:	HAYS
6.6) Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch?	No
6.7) Is the daily average discharge at your facility of 5 MGD or more?	Yes
6.7.1) Provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge:	CALDWELL|DEWITT|GONZALES|HAYS|VICTORIA
7) Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?	No

Public Notice Information

Contact person to be listed in the Notices	
1) Prefix	MS
2) First and Last Name	Yvonne Gil-Vallejo
3) Credential	
4) Title	Project Manager
5) Organization Name	City of Kyle
6) Phone (###-###-####)	7372132328
7) Fax (###-###-####)	
8) Email	ygilvallejo@cityofkyle.com
Bilingual Notice Requirements	
9) Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?	Yes
9.1) Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?	Yes
9.2) Do the students at these schools attend a bilingual education program at another location?	Yes
9.3) Would the school be required to provide a bilingual education program but the school has waived out of this requirement under 19 TAC 89.1205(g)?	No
9.4) Which language is required by the bilingual program?	Spanish

Supplemental Permit Information Form

1) Supplemental Permit Information Form (SPIF)	

[File Properties]

File Name	SPIF_SPIF_061225.pdf
Hash	37CE32FE8626CE50035D71EBD7ACF7F186BBEB2DE6D30B9133AF0F423389FF49
MIME-Type	application/pdf

Domestic Attachments

1) Attach an 8.5"x11", reproduced portion of the most current and original USGS Topographic Quadrangle Map(s) that meets the 1:24,000 scale.

[File Properties]

File Name	MAP_USGS Map_061225.pdf
Hash	E33AEC9678C446446D1DCD51573C8737294369BA52642D411011F3281A5D1DFF
MIME-Type	application/pdf

2) I confirm that all required sections of Technical Report 1.0 are complete and will be included in the Technical Attachment.	Yes
2.1) I confirm that Worksheet 2.0 (Receiving Waters) is complete and included in the Technical Attachment.	Yes
2.2) Are you planning to include Worksheet 2.1 (Stream Physical Characteristics) in the Technical Attachment?	No
2.3) Are you planning to include Worksheet 4.0 (Pollutant Analyses Requirements) in the Technical Attachment?	No
2.4) Are you planning to include Worksheet 5.0 (Toxicity Testing Requirements) in the Technical Attachment?	No
2.5) I confirm that Worksheet 6.0 (Industrial Waste Contribution) is complete and included in the Technical Attachment.	Yes
2.6) Are you planning to include Worksheet 7.0 (Class V Injection Well Inventory/Authorization Form) in the Technical Attachment?	No

2.7) Technical Attachment

[File Properties]

File Name	TECH_Technical Report_061225.pdf
Hash	8656686DC0569CEFF0213F1F6D8E4727FDD8A30E247D26007C43E9234C22240A
MIME-Type	application/pdf

3) Buffer Zone Map

[File Properties]

File Name	BUFF_ZM_Buffer Zone Map_061225.pdf
Hash	E48C71729FEE1BFA4C826C39739AD6C3AC3F4F9932EBC040AF93D46BE0128CFC
MIME-Type	application/pdf

4) Flow Diagram

[File Properties]

File Name	FLDIA_Flow Diagram_061225.pdf
Hash	ACCB6C5131D9C13BBCAA061EDDA93CA5D5EC7498AE09A216E87E6892D82B4F85
MIME-Type	application/pdf

5) Site Drawing

[File Properties]

File Name	SITEDR_Site Plan_061225.pdf
Hash	535E365CD0A1DE338C19D4A46F13935D3C6DA4002E912B1CC53CB5806F4CECF2
MIME-Type	application/pdf

6) Design Calculations

[File Properties]

File Name	DES_CAL_Design Calculations.pdf
Hash	E680F9D8940B25A18C51B8D1E8A522DB6140A1E039D4F50BF211077EDB3EEB1B
MIME-Type	application/pdf

7) Solids Management Plan

8) Water Balance

9) Other Attachments

Certification

I certify that I am authorized under 30 Texas Administrative Code 305.44 to sign this document and can provide documentation in proof of such authorization upon request.

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 there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

1. I am Refugio Briones JR, the owner of the STEERS account ER114840.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcement of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing Update Domestic or Industrial Individual Permit WQ0011041002.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEQ.

OWNER Signature: Refugio Briones JR OWNER

Customer Number:	CN600334510
Legal Name:	City of Kyle
Account Number:	ER114840
Signature IP Address:	24.227.210.11
Signature Date:	2025-06-26
Signature Hash:	40138270ECD7198884C9D608BD52CBA2801A92444F2D121DF877A2CD30426B21
Form Hash Code at time of Signature:	452D673C16353B38BB397BDDD88893461E49467247B8153AB4A0E0A7260E9A34

Fee Payment

Transaction by:	The application fee payment transaction was made by ER110719/Dawn R Anderson
Paid by:	The application fee was paid by DAWN ANDERSON
Fee Amount:	$100.00
Paid Date:	The application fee was paid on 2025-06-26
Transaction/Voucher number:	The transaction number is 582EA000674044 and the voucher number is 772602

Submission

Reference Number:	The application reference number is 795546
Submitted by:	The application was submitted by ER110719/Dawn R Anderson
Submitted Timestamp:	The application was submitted on 2025-06-26 at 14:13:04 CDT
Submitted From:	The application was submitted from IP address 147.160.200.185
Confirmation Number:	The confirmation number is 661253
Steers Version:	The STEERS version is 6.91
Permit Number:	The permit number is WQ0011041002

Additional Information

Application Creator: This account was created by Dawn R Anderson

July 22, 2025

Ms. Sumitra Pokharel, Permit Coordinator
Municipal Permits Team
Wastewater Permitting Section (MC 148)
Water Quality Division
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

Re: City of Kyle - TPDES Permit No. WQ0011041002, EPA ID No. TX0119466 (CN600334510; RN102182680)

Dear Ms. Pokharel:

Thank you very much for the draft permit, Fact Sheet and Executive Director's Preliminary Decision for the City of Kyle Wastewater Treatment Plant, TPDES Permit No. WQ0011041002, EPA ID No. TX0119466 (CN600334510; RN102182680).

We also thank you for the extraordinary speed with which you drafted the permit and the associated documents, for the opportunity to review the entire permit package and to submit our comments.

Our comments are listed below:

1. **FACT SHEET AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION**

   4. TREATMENT PROCESS DESCRIPTION AND SEWAGE SLUDGE DISPOSAL

   For Interim I phase, we request changing "... two fine screens..." to "... two bar screens..."

   Item 7 – Draft Permit Conditions and Monitoring Requirements

   C. Interim III Phase Effluent Limitations and Monitoring Requirements

   We request that the mass loading for TSS be changed to 901 lbs/day.

2. Draft Permit

Page 2b - Interim III Effluent Limitations and Monitoring Requirements

We request that the mass loading for Total Suspended Solids be changed to 901 lbs/day.

Thank you again for the care and the astonishing speed with which you drafted the permit. If you have any questions or require additional information, please call me at 512-686-3918.

Sincerely,

Robert Defreitas
Division Manager of Wastewater Treatment Plant
Water Utilities - Wastewater Treatment Plant
City of Kyle

cc:

Timothy Samford	Yvonne Gil Vallejo
Derek Daniels	Refugio Briones
Dawn Anderson, STV	Lindsay Webb, STV
Aydee Gonzalez, STV	Katelyn Backhaus, STV
Gopal Guthikonda, STV	Raj Bhattarai, CWS

From: Robert Defreitas
To: Sumitra Pokharel
Subject: Comments on Minor Amendment Draft Permit, City of Kyle
Date: Tuesday, July 22, 2025 3:43:55 PM
Attachments: kyle_logo_flatcolor_bb592457-7289-469a-9c00-d501c5a30405.png
vertline-email2_44621522-ce54-472a-9b7f-822a6ce7b6a9.png
socialicons-fb_brandblue_1b75062e-42ac-420c-98e0-1d32aa5a15e5.png
socialicons-insta_brandblue_5b8545dd-1f96-49f1-94ac-f9584ff51295.png
socialicons-nd_brandblue_5db24bec-6ae9-4270-b342-a2abb4bcd3ab.png
socialicons-youtube_brandblue_1097e4ec-7081-473d-ad3c-db07724c6610.png
socialicons-linkedin_brandblue_c3313034-ad5e-4975-97b7-a7e17363407c.png
emailsignaturebanner-311_729ab092-af6e-4b57-a298-a5d9a826ba2d.png

---

We have reviewed the changes and have no other comments. Please move forward with processing the amendment.

kyle_logo_flatcolor.png

Robert Defreitas
Division Manager of Wastewater Treatment Plant
Water Utilities - Wastewater Treatment Plant
520 Ranch to Market Rd 150, Kyle, TX 78640
P (512) 686-3918 | **E** rdefreitas@cityofkyle.com
W cityofkyle.com

EmailSignatureBanner-311.png

From: Sumitra Pokharel
To: City of Kyle; rdefreitas@cityofkyle.com
Cc: Rajendra Bhattarai
Subject: RE: Comments on Minor Amendment Draft Permit, City of Kyle
Date: Tuesday, July 22, 2025 3:06:00 PM
Attachments: image001.png
image002.png
image003.png
image004.png
image005.png
image006.png
image007.png
image008.png
_WQ0011041002_ City of Kyle revised Draft permit Package-7-22-2025.pdf

---

Good afternoon,

Please find the attached revised draft permit package for your review. And provide any additional comments or approval on the draft permit package by COB today 7/22/2025.

Sincerely,
Sumitra Pokharel
512-239-4722

From: City of Kyle <tyler@cityofkyle.com>
Sent: Tuesday, July 22, 2025 2:54 PM
To: Sumitra Pokharel <Sumitra.Pokharel@tceq.texas.gov>
Subject: Comments on Minor Amendment Draft Permit, City of Kyle

kyle_logo_flatcolor.png

City of Kyle

E Tyler@cityofkyle.com
W cityofkyle.com

EmailSignatureBanner-311.png

From: Sumitra Pokharel
To: Jose Alfonso Martinez
Subject: RE: Request for Expediting Minor Amendment of City of Kyle"s Permit No. WQ0011041002
Date: Tuesday, July 22, 2025 12:44:00 PM
Attachments: WQ0011041002_City of Kyle Draft permit Package.docx

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Hi Alfonso,

I've updated the two-hour peak flow in the draft permit based on Raj's email below, as it was not included in the original application request. The final phase of the existing permit had an error in the two-hour peak value, which I've corrected in this draft following your peer review.

My question is — does this update need to be included in the public notice as well?

The draft has already been sent to the applicant, but I wanted to check with you first to see if a revision is necessary. Could you please take a quick look and let me know?

Sincerely,
Sumitra Pokharel

From: Deba Dutta <Deba.Dutta@tceq.texas.gov>
Sent: Monday, July 14, 2025 2:19 PM
To: Sumitra Pokharel <Sumitra.Pokharel@tceq.texas.gov>; Jose Alfonso Martinez <Jose.Martinez@tceq.texas.gov>
Cc: Matthew Udenenwu <matthew.udenenwu@tceq.texas.gov>
Subject: RE: Request for Expediting Minor Amendment of City of Kyle's Permit No. WQ0011041002

Thank you both Sumitra and Alfonso; for drafting and peer reviewing the draft permit so quickly!!

Thanks.
Deba

From: Robert Sadlier <Robert.Sadlier@tceq.texas.gov>
Sent: Monday, July 14, 2025 2:14 PM
To: Deba Dutta <Deba.Dutta@tceq.texas.gov>
Cc: Matthew Udenenwu <matthew.udenenwu@tceq.texas.gov>
Subject: RE: Request for Expediting Minor Amendment of City of Kyle's Permit No. WQ0011041002

Thanks to you and your staff for working it quickly!

From: Deba Dutta <Deba.Dutta@tceq.texas.gov>

Sent: Monday, July 14, 2025 2:12 PM
To: Robert Sadlier <Robert.Sadlier@tceq.texas.gov>
Cc: Matthew Udenenwu <matthew.udenenwu@tceq.texas.gov>
Subject: RE: Request for Expediting Minor Amendment of City of Kyle's Permit No. WQ0011041002

Good afternoon, Robert.
The draft permit has been mailed out to the applicant today, for their review and acceptance.

Please let me know if you have any question.

Thanks.
Deba

From: Robert Sadlier <Robert.Sadlier@tceq.texas.gov>
Sent: Thursday, July 3, 2025 3:14 PM
To: Gregg Easley <gregg.easley@tceq.texas.gov>; Erwin Madrid <Erwin.Madrid@tceq.texas.gov>; Matthew Udenenwu <matthew.udenenwu@tceq.texas.gov>; Deba Dutta <Deba.Dutta@tceq.texas.gov>
Cc: Jennifer Bowers <Jennifer.Bowers@Tceq.Texas.Gov>; Dania Grundmann <dania.grundmann@tceq.texas.gov>
Subject: RE: Request for Expediting Minor Amendment of City of Kyle's Permit No. WQ0011041002

I replied to Raj (attached), so that box is checked. Yes, please prioritize it and get it over to Deba's team. @Deba Dutta, please watch out for this one.

From: Gregg Easley <gregg.easley@tceq.texas.gov>
Sent: Thursday, July 3, 2025 3:10 PM
To: Robert Sadlier <Robert.Sadlier@tceq.texas.gov>; Erwin Madrid <Erwin.Madrid@tceq.texas.gov>; Matthew Udenenwu <matthew.udenenwu@tceq.texas.gov>
Cc: Jennifer Bowers <Jennifer.Bowers@Tceq.Texas.Gov>; Dania Grundmann <dania.grundmann@tceq.texas.gov>
Subject: RE: Request for Expediting Minor Amendment of City of Kyle's Permit No. WQ0011041002

Raj sent a similar email to Deba, Mike, and myself on Tuesday. No response has been given that I'm aware of. According to PARIS, the application was admin completed also on Tuesday, so it should now be in my section for review. If instructed to do so, we can prioritize each of the technical reviews in my section. The proposed interim phase will need to be modeled, but we can move it to or near the top of the list for the modeler (Mara). It might be optimistic to say so, but if prioritized, I would think my section could complete all of its reviews by the end of next week.

From: Robert Sadlier <Robert.Sadlier@tceq.texas.gov>
Sent: Thursday, July 3, 2025 2:50 PM

To: Erwin Madrid <Erwin.Madrid@tceq.texas.gov>; Gregg Easley <gregg.easley@tceq.texas.gov>; Matthew Udenenwu <matthew.udenenwu@tceq.texas.gov>
Cc: Jennifer Bowers <Jennifer.Bowers@Tceq.Texas.Gov>; Dania Grundmann <dania.grundmann@tceq.texas.gov>
Subject: FW: Request for Expediting Minor Amendment of City of Kyle's Permit No. WQ0011041002

The City of Kyle is requesting special consideration for the review of an application they recently submitted. They desire to add an interim phase to their current permit to head off noncompliance. Can we make this one move faster?

Gregg – suspect your section will be where it needs the most attention, given all the other apps we have working through WQA.

From: Rajendra Bhattarai <raj@cleanwaterstrategies.com>
Sent: Wednesday, July 2, 2025 5:46 PM
To: Robert Sadlier <Robert.Sadlier@tceq.texas.gov>
Subject: Request for Expediting Minor Amendment of City of Kyle's Permit No. WQ0011041002

Robert,

I just called and missed you.

I am writing to request your help in expediting the City of Kyle's application for minor amendment without renewal of TPDES Permit No. WQ0011041002 for the City of Kyle Wastewater Treatment Plant that was submitted to TCEQ via STEERS on Friday, June 27, 2025. See attached Copy of Record and the STEERS Update Domestic or Industrial Individual Permit application submitted.eml.

This minor amendment requests two minor changes in TPDES Permit No. WQ0011041002 issued on February 5, 2025:

1. **Request for correcting a typographical error in the 2-hour peak flow for the final phase on Page 2b of the existing permit:** In the permit amendment application submitted to the TCEQ on March 11, 2022, the City of Kyle (City) had requested a 2-hour peak flow limit of 48 million gallons per day (MGD) [33,333 gallons per minute (gpm)] for the final phase. Unfortunately, the current permit has a 2-hour peak flow limit of 39,344 gpm for the final phase on Page 2b of the existing permit. The City is requesting that the typographical error be corrected, and the requested 2-hour peak flow limit of 33,333 gpm be provided for the final phase of the permit. **The higher peak flow in the existing permit is a typo; the City is requesting a lower peak flow that it had originally requested in its application.**

2. **Request for a new interim phase of 6 MGD annual average flow:** In the three years since the City applied for the permit amendment in March 2022 and the permit was issued in February 2025, the flows to the Kyle Wastewater Treatment Plant steadily increased and are now over 90% of the existing plant capacity of 4.5 MGD. At this rate, the plant is at the risk of exceeding its flow limit within a year. However, the design and construction of the next phase (9 MGD) will take three more years. To maintain permit compliance and to protect public health and the environment, the City has embarked at a great expense to rapidly design and construct additional conventional activated sludge capacity and facilities for chemical phosphorus removal that can treat an annual average flow of 6 MGD by 2026. This minor amendment requests a speedy approval of the new interim phase flow of 6 MGD so that facilities may be designed and constructed rapidly to help the plant meet its permit limits and protect public health and the environment.

The City request that the interim phase contain the following limitations:

Design Flow: 6 MGD annual average
2-Hour Peak Flow (MGD): 24 MGD (16,667 gpm)
Monthly Average 5-day Carbonaceous Biochemical Oxygen Demand (CBOD5): 7 milligrams per liter (mg/l)
Monthly Average Total Suspended Solids (TSS): 12 mg/l
Monthly Average Ammonia Nitrogen (NH3-N): 2 mg/l
Monthly Average Total Phosphorus (TP): 0.5 mg/l
Monthly Average E. coli: 126 colony-forming units or most probable number/100 ml
Estimated construction start date: October 2025
Estimated waste disposal start date: October 2026

Since this effluent quality was modeled for the higher flow of 9 MGD and found acceptable to maintain the receiving water quality, it should be adequate for the lower interim flow of 6 MGD.

The City requests a speedy processing of this application so that design and construction on the new interim phase of 6 MGD may begin as soon as possible to protect public health and the environment. **Without this minor amendment, the City runs the risk of violating itts permit. They want to do the right thing at a great expense to them in the interest of protecting public health and the environment.**

If you have any questions or concerns or require additional information, please let me

know. **If you would like, I will be happy to meet with you or your staff at your convenience to explain this matter in more detail.** Thank you.

Best regards,

-Raj
Rajendra P. Bhattarai, P.E., DEE, WEF Fellow
512-699-5321

The TCEQ is committed to accessibility.
To request a more accessible version of this report, please contact the TCEQ Help Desk at (512) 239-4357.

Compliance History Report

Compliance History Report for CN600334510, RN102182680, Rating Year 2024 which includes Compliance History (CH) components from September 1, 2019, through August 31, 2024.

Customer, Respondent, or Owner/Operator: CN600334510, City of Kyle **Classification:** HIGH **Rating:** 0.06

Regulated Entity: RN102182680, CITY OF KYLE WWTP **Classification:** HIGH **Rating:** 0.00

Complexity Points: 9 **Repeat Violator:** NO

CH Group: 08 - Sewage Treatment Facilities

Location: 941 NEW BRIDGE DR KYLE, TX 78640-5544, HAYS COUNTY

TCEQ Region: REGION 11 - AUSTIN

ID Number(s):

WASTEWATER PERMIT WQ0011041002
WASTEWATER AUTHORIZATION R11041002
STORMWATER PERMIT WQ0005393000
WASTEWATER EPA ID TX0119466
STORMWATER EPA ID TX0143103

Compliance History Period: September 01, 2019 to August 31, 2024 **Rating Year:** 2024 **Rating Date:** 09/01/2024

Date Compliance History Report Prepared: July 07, 2025

Agency Decision Requiring Compliance History: Permit - Issuance, renewal, amendment, modification, denial, suspension, or revocation of a permit.

Component Period Selected: June 26, 2020 to July 07, 2025

TCEQ Staff Member to Contact for Additional Information Regarding This Compliance History.

Name: PT **Phone:** (512) 239-3581

Site and Owner/Operator History:

1) Has the site been in existence and/or operation for the full five year compliance period? YES
2) Has there been a (known) change in ownership/operator of the site during the compliance period? NO

Components (Multimedia) for the Site Are Listed in Sections A - J

A. Final Orders, court judgments, and consent decrees:
N/A

B. Criminal convictions:
N/A

C. Chronic excessive emissions events:
N/A

D. The approval dates of investigations (CCEDS Inv. Track. No.):

Item 1	November 12, 2020	(1717740)
Item 2	December 15, 2020	(1717741)
Item 3	January 13, 2021	(1717742)
Item 4	February 10, 2021	(1730787)
Item 5	April 13, 2021	(1730789)
Item 6	May 13, 2021	(1742672)
Item 7	June 09, 2021	(1742673)
Item 8	July 13, 2021	(1753437)
Item 9	August 13, 2021	(1758826)

Item 10	October 14, 2021	(1778701)
Item 11	December 15, 2021	(1792407)
Item 12	August 15, 2022	(1838978)
Item 13	October 18, 2022	(1864311)
Item 14	December 14, 2022	(1877074)
Item 15	February 15, 2023	(1891698)
Item 16	March 17, 2023	(1900270)
Item 18	April 28, 2023	(1907070)
Item 19	May 15, 2023	(1914225)
Item 20	June 14, 2023	(1920832)
Item 21	July 14, 2023	(1927816)
Item 22	August 14, 2023	(1934759)
Item 23	September 13, 2023	(1940934)
Item 24	October 11, 2023	(1947733)
Item 25	November 15, 2023	(1953422)
Item 26	November 20, 2023	(1954222)
Item 27	December 14, 2023	(1963205)
Item 28	January 16, 2024	(1970593)
Item 29	January 30, 2024	(1969782)
Item 30	February 13, 2024	(1978861)
Item 31	March 12, 2024	(1985423)
Item 32	March 13, 2024	(1986236)
Item 33	April 15, 2024	(1991965)
Item 34	April 16, 2024	(1992799)
Item 35	May 14, 2024	(1998399)
Item 36	June 17, 2024	(2005364)
Item 37	July 15, 2024	(2013751)
Item 38	August 19, 2024	(2018747)
Item 39	September 19, 2024	(2025532)
Item 40	October 18, 2024	(2031643)
Item 42	November 13, 2024	(2037963)
Item 43	December 17, 2024	(2044352)
Item 44	January 17, 2025	(2050911)
Item 45	February 19, 2025	(2058460)
Item 46	March 19, 2025	(2067023)
Item 47	April 18, 2025	(2073841)

E. Written notices of violations (NOV) (CCEDS Inv. Track. No.):

A notice of violation represents a written allegation of a violation of a specific regulatory requirement from the commission to a regulated entity. A notice of violation is not a final enforcement action, nor proof that a violation has actually occurred.

1 Date: 05/21/2025 (2055489)

Self Report? NO Classification: Moderate

Citation: 2D TWC Chapter 26, SubChapter A 26.121(a)(1)
30 TAC Chapter 305, SubChapter F 305.125(1)

Description: Failure to prevent an unauthorized discharge of wastewater into or adjacent to water in the state.

F. Environmental audits:

N/A

G. Type of environmental management systems (EMSs):

N/A

H. Voluntary on-site compliance assessment dates:

N/A

I. Participation in a voluntary pollution reduction program:

N/A

Compliance History Report for CN600334510, RN102182680, Rating Year 2024 which includes Compliance History (CH) components from June 26, 2020, through July 07, 2025.

J. Early compliance:

N/A

Sites Outside of Texas:

N/A

DMR DATA

WQ0011041002 - CITY OF KYLE

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure DAILY AV (mg/L)	Reported Measure DAILY MX (mg/L)	Reported Measure DAILY AV (lb/d)
TX0119466	5/31/2020	001B	BOD, carbonaceous [5 day, 20 C]	8	14	24.74
TX0119466	6/30/2020	001B	BOD, carbonaceous [5 day, 20 C]	1.89	3	10.37
TX0119466	7/31/2020	001B	BOD, carbonaceous [5 day, 20 C]	2.44	5	12.79
TX0119466	8/31/2020	001B	BOD, carbonaceous [5 day, 20 C]	1.5	2	6.5
TX0119466	9/30/2020	001B	BOD, carbonaceous [5 day, 20 C]	2.1	3	11.99
TX0119466	10/31/2020	001B	BOD, carbonaceous [5 day, 20 C]	1.25	2	5.6
TX0119466	11/30/2020	001B	BOD, carbonaceous [5 day, 20 C]	2.38	3	10.69
TX0119466	12/31/2020	001B	BOD, carbonaceous [5 day, 20 C]	3.1	4	21.04
TX0119466	1/31/2021	001B	BOD, carbonaceous [5 day, 20 C]	3.63	5	22.55
TX0119466	2/28/2021	001B	BOD, carbonaceous [5 day, 20 C]	3	5	21.25
TX0119466	3/31/2021	001B	BOD, carbonaceous [5 day, 20 C]	3	5	22.52
TX0119466	4/30/2021	001B	BOD, carbonaceous [5 day, 20 C]	3.25	5	18.96
TX0119466	5/31/2021	001B	BOD, carbonaceous [5 day, 20 C]	2.13	3	16.21
TX0119466	6/30/2021	001B	BOD, carbonaceous [5 day, 20 C]	1.88	3	13.11
TX0119466	7/31/2021	001B	BOD, carbonaceous [5 day, 20 C]	2.38	4	13.39
TX0119466	8/31/2021	001B	BOD, carbonaceous [5 day, 20 C]	1.89	3	11.45
TX0119466	9/30/2021	001B	BOD, carbonaceous [5 day, 20 C]	2	3	11.02
TX0119466	10/31/2021	001B	BOD, carbonaceous [5 day, 20 C]	2.63	4	21.18
TX0119466	11/30/2021	001B	BOD, carbonaceous [5 day, 20 C]	2	3	14.87
TX0119466	12/31/2021	001B	BOD, carbonaceous [5 day, 20 C]	2	2	13.34
TX0119466	1/31/2022	001B	BOD, carbonaceous [5 day, 20 C]	2.25	3	12.84
TX0119466	2/28/2022	001B	BOD, carbonaceous [5 day, 20 C]	2.88	3	24.35
TX0119466	3/31/2022	001B	BOD, carbonaceous [5 day, 20 C]	3.7	5	27.65
TX0119466	4/30/2022	001B	BOD, carbonaceous [5 day, 20 C]	4	8	26.47
TX0119466	5/31/2022	001B	BOD, carbonaceous [5 day, 20 C]	2.38	3	13.59
TX0119466	6/30/2022	001B	BOD, carbonaceous [5 day, 20 C]	11.78	25	75.46
TX0119466	7/31/2022	001B	BOD, carbonaceous [5 day, 20 C]	10.13	18	245.98
TX0119466	8/31/2022	001B	BOD, carbonaceous [5 day, 20 C]	5.7	12	123.83
TX0119466	9/30/2022	001B	BOD, carbonaceous [5 day, 20 C]	2.8	4	62.55

TX0119466	10/31/2022	001B	BOD, carbonaceous [5 day, 20 C]	2.22	3	49.7
TX0119466	11/30/2022	001B	BOD, carbonaceous [5 day, 20 C]	2.44	5	46.46
TX0119466	12/31/2022	001B	BOD, carbonaceous [5 day, 20 C]	2.13	3	61.52
TX0119466	1/31/2023	001B	BOD, carbonaceous [5 day, 20 C]	2.33	3	62.19
TX0119466	2/28/2023	001B	BOD, carbonaceous [5 day, 20 C]	2.22	3	69.21
TX0119466	3/31/2023	001B	BOD, carbonaceous [5 day, 20 C]	2.38	4	67.63
TX0119466	4/30/2023	001B	BOD, carbonaceous [5 day, 20 C]	3.13	5	99
TX0119466	5/31/2023	001B	BOD, carbonaceous [5 day, 20 C]	2.8	4	87.32
TX0119466	6/30/2023	001B	BOD, carbonaceous [5 day, 20 C]	3.75	6	103.82
TX0119466	7/31/2023	001B	BOD, carbonaceous [5 day, 20 C]	3.63	5	90.76
TX0119466	8/31/2023	001B	BOD, carbonaceous [5 day, 20 C]	3.89	5	97.97
TX0119466	9/30/2023	001B	BOD, carbonaceous [5 day, 20 C]	4.63	7	117.14
TX0119466	10/31/2023	001B	BOD, carbonaceous [5 day, 20 C]	3.9	5	114.6
TX0119466	11/30/2023	001B	BOD, carbonaceous [5 day, 20 C]	4.25	6	144.6
TX0119466	12/31/2023	001B	BOD, carbonaceous [5 day, 20 C]	3.5	4	108.67
TX0119466	1/31/2024	001B	BOD, carbonaceous [5 day, 20 C]	3.1	4	142.63
TX0119466	2/29/2024	001B	BOD, carbonaceous [5 day, 20 C]	3	3	115.01
TX0119466	3/31/2024	001B	BOD, carbonaceous [5 day, 20 C]	4.13	6	140.78
TX0119466	4/30/2024	001B	BOD, carbonaceous [5 day, 20 C]	3.8	7	132.71
TX0119466	5/31/2024	001B	BOD, carbonaceous [5 day, 20 C]	3.13	4	108.63
TX0119466	6/30/2024	001B	BOD, carbonaceous [5 day, 20 C]	3.25	4	114.57
TX0119466	7/31/2024	001B	BOD, carbonaceous [5 day, 20 C]	3.4	4	119.88
TX0119466	8/31/2024	001B	BOD, carbonaceous [5 day, 20 C]	3	3	90.17
TX0119466	9/30/2024	001B	BOD, carbonaceous [5 day, 20 C]	3	3	85.8
TX0119466	10/31/2024	001B	BOD, carbonaceous [5 day, 20 C]	3	3	79.19
TX0119466	11/30/2024	001B	BOD, carbonaceous [5 day, 20 C]	3.63	5	114.47
TX0119466	12/31/2024	001B	BOD, carbonaceous [5 day, 20 C]	3.8	7	114.99
TX0119466	1/31/2025	001B	BOD, carbonaceous [5 day, 20 C]	3.63	6	123.33
TX0119466	2/28/2025	001B	BOD, carbonaceous [5 day, 20 C]	3.75	5	134.66
TX0119466	3/31/2025	001B	BOD, carbonaceous [5 day, 20 C]	3.44	4	105.22
TX0119466	4/30/2025	001B	BOD, carbonaceous [5 day, 20 C]	3	3	98.88
TX0119466	5/31/2025	001B	BOD, carbonaceous [5 day, 20 C]	3.5	5	123.07
			2 YEAR AVERAGE	3.52	4.72	112.35
			5 YEAR AVERAGE	3.33	5.02	68.54

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure DAILY AV (CFU/100ml	Reported Measure DAILY MX (CFU/100mL)
TX0119466	5/31/2020	001B	E. coli	2.04	8.6
TX0119466	6/30/2020	001B	E. coli	8.08	26.9
TX0119466	7/31/2020	001B	E. coli	73.43	1300

TX0119466	8/31/2020	001B	E. coli	45.54	98.7
TX0119466	9/30/2020	001B	E. coli	196.11	2420
TX0119466	10/31/2020	001B	E. coli	25.3	95.9
TX0119466	11/30/2020	001B	E. coli	33.87	73.3
TX0119466	12/31/2020	001B	E. coli	80.61	102
TX0119466	1/31/2021	001B	E. coli	41.8	150
TX0119466	2/28/2021	001B	E. coli	16.54	39.9
TX0119466	3/31/2021	001B	E. coli	120.98	365
TX0119466	4/30/2021	001B	E. coli	50.36	144
TX0119466	5/31/2021	001B	E. coli	31.2	135
TX0119466	6/30/2021	001B	E. coli	58.76	75.4
TX0119466	7/31/2021	001B	E. coli	83.91	285
TX0119466	8/31/2021	001B	E. coli	7.93	517
TX0119466	9/30/2021	001B	E. coli	4.57	25.3
TX0119466	10/31/2021	001B	E. coli	6.99	25.6
TX0119466	11/30/2021	001B	E. coli	4.62	7.5
TX0119466	12/31/2021	001B	E. coli	4.23	42
TX0119466	1/31/2022	001B	E. coli	1.76	9.6
TX0119466	2/28/2022	001B	E. coli	1.19	2
TX0119466	3/31/2022	001B	E. coli	1	1
TX0119466	4/30/2022	001B	E. coli	13.28	2810
TX0119466	5/31/2022	001B	E. coli	6.58	127
TX0119466	6/30/2022	001B	E. coli	5.98	2419.6
TX0119466	7/31/2022	001B	E. coli	1.55	15.8
TX0119466	8/31/2022	001B	E. coli	1.41	6.2
TX0119466	9/30/2022	001B	E. coli	2.34	7.4
TX0119466	10/31/2022	001B	E. coli	5.01	108.1
TX0119466	11/30/2022	001B	E. coli	2.93	24.1
TX0119466	12/31/2022	001B	E. coli	6.82	50.4
TX0119466	1/31/2023	001B	E. coli	7.43	31.8
TX0119466	2/28/2023	001B	E. coli	5.14	59.4
TX0119466	3/31/2023	001B	E. coli	3.33	36.4
TX0119466	4/30/2023	001B	E. coli	3.54	21.8
TX0119466	5/31/2023	001B	E. coli	2.21	38.1
TX0119466	6/30/2023	001B	E. coli	2.74	28.5
TX0119466	7/31/2023	001B	E. coli	6.57	61.3
TX0119466	8/31/2023	001B	E. coli	3.56	31.7
TX0119466	9/30/2023	001B	E. coli	4.69	36.6
TX0119466	10/31/2023	001B	E. coli	4.86	50.5
TX0119466	11/30/2023	001B	E. coli	5.49	387.3
TX0119466	12/31/2023	001B	E. coli	4.76	30.1

TX0119466	1/31/2024	001B	E. coli	3.31	12.2
TX0119466	2/29/2024	001B	E. coli	2.6	10.6
TX0119466	3/31/2024	001B	E. coli	4.28	29.2
TX0119466	4/30/2024	001B	E. coli	3.38	27.2
TX0119466	5/31/2024	001B	E. coli	4.65	33.2
TX0119466	6/30/2024	001B	E. coli	8.29	47.3
TX0119466	7/31/2024	001B	E. coli	3.25	24.9
TX0119466	8/31/2024	001B	E. coli	8.29	143.9
TX0119466	9/30/2024	001B	E. coli	8.44	88.2
TX0119466	10/31/2024	001B	E. coli	19.87	157.6
TX0119466	11/30/2024	001B	E. coli	7.34	55.6
TX0119466	12/31/2024	001B	E. coli	14.23	343.3
TX0119466	1/31/2025	001B	E. coli	3.86	17.9
TX0119466	2/28/2025	001B	E. coli	7.41	41.4
TX0119466	3/31/2025	001B	E. coli	5.28	35
TX0119466	4/30/2025	001B	E. coli	10.47	44.3
TX0119466	5/31/2025	001B	E. coli	8.42	275.5
			2 YEAR GEOMEAN	5.45	49.40
			5 YEAR GEOMEAN	7.73	55.52

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure DAILY AV (MGD)	Reported Measure DAILY MX (MGD)
TX0119466	5/31/2020	001B	Flow, in conduit or thru treatment plant	3.36	6.82
TX0119466	6/30/2020	001B	Flow, in conduit or thru treatment plant	2.42	3.36
TX0119466	7/31/2020	001B	Flow, in conduit or thru treatment plant	2.12	2.93
TX0119466	8/31/2020	001B	Flow, in conduit or thru treatment plant	2.02	2.85
TX0119466	9/30/2020	001B	Flow, in conduit or thru treatment plant	2.52	4.41
TX0119466	10/31/2020	001B	Flow, in conduit or thru treatment plant	2.09	2.89
TX0119466	11/30/2020	001B	Flow, in conduit or thru treatment plant	2.08	3.08
TX0119466	12/31/2020	001B	Flow, in conduit or thru treatment plant	2.62	3.55
TX0119466	1/31/2021	001B	Flow, in conduit or thru treatment plant	2.87	3.43
TX0119466	2/28/2021	001B	Flow, in conduit or thru treatment plant	3.01	4.09
TX0119466	3/31/2021	001B	Flow, in conduit or thru treatment plant	2.78	3.24
TX0119466	4/30/2021	001B	Flow, in conduit or thru treatment plant	2.44	2.95
TX0119466	5/31/2021	001B	Flow, in conduit or thru treatment plant	3.53	5.17
TX0119466	6/30/2021	001B	Flow, in conduit or thru treatment plant	3.06	5.50
TX0119466	7/31/2021	001B	Flow, in conduit or thru treatment plant	2.59	3.58
TX0119466	8/31/2021	001B	Flow, in conduit or thru treatment plant	2.48	3.56
TX0119466	9/30/2021	001B	Flow, in conduit or thru treatment plant	2.23	3.31
TX0119466	10/31/2021	001B	Flow, in conduit or thru treatment plant	3.26	6.69

TX0119466	11/30/2021	001B	Flow, in conduit or thru treatment plant	3.06	4.38
TX0119466	12/31/2021	001B	Flow, in conduit or thru treatment plant	2.75	3.97
TX0119466	1/31/2022	001B	Flow, in conduit or thru treatment plant	2.70	4.42
TX0119466	2/28/2022	001B	Flow, in conduit or thru treatment plant	3.50	6.38
TX0119466	3/31/2022	001B	Flow, in conduit or thru treatment plant	2.80	3.48
TX0119466	4/30/2022	001B	Flow, in conduit or thru treatment plant	2.74	3.39
TX0119466	5/31/2022	001B	Flow, in conduit or thru treatment plant	2.70	3.78
TX0119466	6/30/2022	001B	Flow, in conduit or thru treatment plant	2.70	3.33
TX0119466	7/31/2022	001B	Flow, in conduit or thru treatment plant	2.80	4.37
TX0119466	8/31/2022	001B	Flow, in conduit or thru treatment plant	2.55	3.89
TX0119466	9/30/2022	001B	Flow, in conduit or thru treatment plant	2.74	3.92
TX0119466	10/31/2022	001B	Flow, in conduit or thru treatment plant	2.78	3.44
TX0119466	11/30/2022	001B	Flow, in conduit or thru treatment plant	3.30	4.51
TX0119466	12/31/2022	001B	Flow, in conduit or thru treatment plant	3.44	3.89
TX0119466	1/31/2023	001B	Flow, in conduit or thru treatment plant	3.23	3.71
TX0119466	2/28/2023	001B	Flow, in conduit or thru treatment plant	3.70	4.29
TX0119466	3/31/2023	001B	Flow, in conduit or thru treatment plant	3.37	3.81
TX0119466	4/30/2023	001B	Flow, in conduit or thru treatment plant	3.58	4.60
TX0119466	5/31/2023	001B	Flow, in conduit or thru treatment plant	3.74	5.06
TX0119466	6/30/2023	001B	Flow, in conduit or thru treatment plant	3.27	3.87
TX0119466	7/31/2023	001B	Flow, in conduit or thru treatment plant	3.01	3.95
TX0119466	8/31/2023	001B	Flow, in conduit or thru treatment plant	3.02	3.96
TX0119466	9/30/2023	001B	Flow, in conduit or thru treatment plant	3.15	3.98
TX0119466	10/31/2023	001B	Flow, in conduit or thru treatment plant	3.62	6.01
TX0119466	11/30/2023	001B	Flow, in conduit or thru treatment plant	3.95	4.61
TX0119466	12/31/2023	001B	Flow, in conduit or thru treatment plant	3.75	5.16
TX0119466	1/31/2024	001B	Flow, in conduit or thru treatment plant	5.16	10.01
TX0119466	2/29/2024	001B	Flow, in conduit or thru treatment plant	4.56	5.51
TX0119466	3/31/2024	001B	Flow, in conduit or thru treatment plant	4.01	4.68
TX0119466	4/30/2024	001B	Flow, in conduit or thru treatment plant	4.02	4.89
TX0119466	5/31/2024	001B	Flow, in conduit or thru treatment plant	4.24	5.91
TX0119466	6/30/2024	001B	Flow, in conduit or thru treatment plant	4.16	5.19
TX0119466	7/31/2024	001B	Flow, in conduit or thru treatment plant	4.13	5.22
TX0119466	8/31/2024	001B	Flow, in conduit or thru treatment plant	3.61	4.38
TX0119466	9/30/2024	001B	Flow, in conduit or thru treatment plant	3.47	3.91
TX0119466	10/31/2024	001B	Flow, in conduit or thru treatment plant	3.11	3.67
TX0119466	11/30/2024	001B	Flow, in conduit or thru treatment plant	3.57	4.21
TX0119466	12/31/2024	001B	Flow, in conduit or thru treatment plant	3.76	4.32
TX0119466	1/31/2025	001B	Flow, in conduit or thru treatment plant	3.98	4.40
TX0119466	2/28/2025	001B	Flow, in conduit or thru treatment plant	4.27	5.19
TX0119466	3/31/2025	001B	Flow, in conduit or thru treatment plant	3.97	5.03

TX0119466	4/30/2025	001B	Flow, in conduit or thru treatment plant	3.87	4.75
TX0119466	5/31/2025	001B	Flow, in conduit or thru treatment plant	4.10	5.28
			2 YEAR AVERAGE	3.82	4.93
			5 YEAR AVERAGE	3.24	4.39

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure DAILY AV (mg/L)	Reported Measure DAILY MX (mg/L)	Reported Measure DAILY AV (lb/d)
TX0119466	5/31/2020	001B	Nitrogen, ammonia total [as N]	11.11	21.3	84.12
TX0119466	6/30/2020	001B	Nitrogen, ammonia total [as N]	5.45	9.79	34.28
TX0119466	7/31/2020	001B	Nitrogen, ammonia total [as N]	8.51	14.5	43.48
TX0119466	8/31/2020	001B	Nitrogen, ammonia total [as N]	5.45	9.7	23.13
TX0119466	9/30/2020	001B	Nitrogen, ammonia total [as N]	4.43	8.96	32.06
TX0119466	10/31/2020	001B	Nitrogen, ammonia total [as N]	1.59	2.66	7.06
TX0119466	11/30/2020	001B	Nitrogen, ammonia total [as N]	0.76	1.9	3.47
TX0119466	12/31/2020	001B	Nitrogen, ammonia total [as N]	0.71	2.1	4.88
TX0119466	1/31/2021	001B	Nitrogen, ammonia total [as N]	0.2	0.47	1.22
TX0119466	2/28/2021	001B	Nitrogen, ammonia total [as N]	0.15	0.39	1.02
TX0119466	3/31/2021	001B	Nitrogen, ammonia total [as N]	0.26	0.88	1.97
TX0119466	4/30/2021	001B	Nitrogen, ammonia total [as N]	1.19	3.2	6.86
TX0119466	5/31/2021	001B	Nitrogen, ammonia total [as N]	0.17	0.47	1.42
TX0119466	6/30/2021	001B	Nitrogen, ammonia total [as N]	2.83	4.23	15.6
TX0119466	7/31/2021	001B	Nitrogen, ammonia total [as N]	0.76	1.98	4.36
TX0119466	8/31/2021	001B	Nitrogen, ammonia total [as N]	1	2.45	6.14
TX0119466	9/30/2021	001B	Nitrogen, ammonia total [as N]	1.89	2.68	9.49
TX0119466	10/31/2021	001B	Nitrogen, ammonia total [as N]	3.04	6.79	21.29
TX0119466	11/30/2021	001B	Nitrogen, ammonia total [as N]	0.71	1.59	5.16
TX0119466	12/31/2021	001B	Nitrogen, ammonia total [as N]	1.02	2.8	7.08
TX0119466	1/31/2022	001B	Nitrogen, ammonia total [as N]	0.61	2.75	3.69
TX0119466	2/28/2022	001B	Nitrogen, ammonia total [as N]	2.34	4.07	20.26
TX0119466	3/31/2022	001B	Nitrogen, ammonia total [as N]	6.77	11.8	49.97
TX0119466	4/30/2022	001B	Nitrogen, ammonia total [as N]	2.36	5.27	15.82
TX0119466	5/31/2022	001B	Nitrogen, ammonia total [as N]	1.36	3.38	8.2
TX0119466	6/30/2022	001B	Nitrogen, ammonia total [as N]	0.26	1.95	2.61
TX0119466	7/31/2022	001B	Nitrogen, ammonia total [as N]	0.14	0.2	3.38
TX0119466	8/31/2022	001B	Nitrogen, ammonia total [as N]	0.17	0.5	3.73
TX0119466	9/30/2022	001B	Nitrogen, ammonia total [as N]	0.34	1.1	7.86
TX0119466	10/31/2022	001B	Nitrogen, ammonia total [as N]	0.12	0.2	2.77
TX0119466	11/30/2022	001B	Nitrogen, ammonia total [as N]	0.1	0.1	2.82
TX0119466	12/31/2022	001B	Nitrogen, ammonia total [as N]	0.13	0.2	3.61
TX0119466	1/31/2023	001B	Nitrogen, ammonia total [as N]	0.13	0.4	3.59

TX0119466	2/28/2023	001B	Nitrogen, ammonia total [as N]	0.46	1.5	13.2
TX0119466	3/31/2023	001B	Nitrogen, ammonia total [as N]	1.08	7.3	29.69
TX0119466	4/30/2023	001B	Nitrogen, ammonia total [as N]	0.14	0.3	4.49
TX0119466	5/31/2023	001B	Nitrogen, ammonia total [as N]	0.15	0.3	4.61
TX0119466	6/30/2023	001B	Nitrogen, ammonia total [as N]	0.26	0.3	7.3
TX0119466	7/31/2023	001B	Nitrogen, ammonia total [as N]	0.25	0.5	6.12
TX0119466	8/31/2023	001B	Nitrogen, ammonia total [as N]	0.12	0.2	3.12
TX0119466	9/30/2023	001B	Nitrogen, ammonia total [as N]	0.1	0.1	2.59
TX0119466	10/31/2023	001B	Nitrogen, ammonia total [as N]	0.15	0.4	4.36
TX0119466	11/30/2023	001B	Nitrogen, ammonia total [as N]	0.1	0.1	3.36
TX0119466	12/31/2023	001B	Nitrogen, ammonia total [as N]	0.1	0.1	3.09
TX0119466	1/31/2024	001B	Nitrogen, ammonia total [as N]	0.2	0.6	8.7
TX0119466	2/29/2024	001B	Nitrogen, ammonia total [as N]	0.11	0.2	4.3
TX0119466	3/31/2024	001B	Nitrogen, ammonia total [as N]	0.1	0.1	3.41
TX0119466	4/30/2024	001B	Nitrogen, ammonia total [as N]	0.1	0.1	3.45
TX0119466	5/31/2024	001B	Nitrogen, ammonia total [as N]	0.11	0.2	3.91
TX0119466	6/30/2024	001B	Nitrogen, ammonia total [as N]	0.1	0.1	3.52
TX0119466	7/31/2024	001B	Nitrogen, ammonia total [as N]	0.1	0.1	3.53
TX0119466	8/31/2024	001B	Nitrogen, ammonia total [as N]	0.1	0.1	3.01
TX0119466	9/30/2024	001B	Nitrogen, ammonia total [as N]	0.1	0.1	2.86
TX0119466	10/31/2024	001B	Nitrogen, ammonia total [as N]	0.12	0.2	3.18
TX0119466	11/30/2024	001B	Nitrogen, ammonia total [as N]	0.21	0.4	6.76
TX0119466	12/31/2024	001B	Nitrogen, ammonia total [as N]	0.1	0.1	3.1
TX0119466	1/31/2025	001B	Nitrogen, ammonia total [as N]	0.15	0.3	5.2
TX0119466	2/28/2025	001B	Nitrogen, ammonia total [as N]	0.14	0.3	5.08
TX0119466	3/31/2025	001B	Nitrogen, ammonia total [as N]	0.12	0.2	4.14
TX0119466	4/30/2025	001B	Nitrogen, ammonia total [as N]	0.18	0.5	5.69
TX0119466	5/31/2025	001B	Nitrogen, ammonia total [as N]	0.19	0.3	6.88
			2 YEAR AVERAGE	0.14	0.24	4.45
			5 YEAR AVERAGE	1.17	2.39	9.85

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure MO MIN (mg/L)
TX0119466	5/31/2020	001B	Oxygen, dissolved [DO]	6.84
TX0119466	6/30/2020	001B	Oxygen, dissolved [DO]	6.86
TX0119466	7/31/2020	001B	Oxygen, dissolved [DO]	6.77
TX0119466	8/31/2020	001B	Oxygen, dissolved [DO]	6.89
TX0119466	9/30/2020	001B	Oxygen, dissolved [DO]	7.2
TX0119466	10/31/2020	001B	Oxygen, dissolved [DO]	7.06
TX0119466	11/30/2020	001B	Oxygen, dissolved [DO]	7.16

TX0119466	12/31/2020	001B	Oxygen, dissolved [DO]	7.8
TX0119466	1/31/2021	001B	Oxygen, dissolved [DO]	8.06
TX0119466	2/28/2021	001B	Oxygen, dissolved [DO]	7.94
TX0119466	3/31/2021	001B	Oxygen, dissolved [DO]	8.16
TX0119466	4/30/2021	001B	Oxygen, dissolved [DO]	7.34
TX0119466	5/31/2021	001B	Oxygen, dissolved [DO]	6.4
TX0119466	6/30/2021	001B	Oxygen, dissolved [DO]	7.37
TX0119466	7/31/2021	001B	Oxygen, dissolved [DO]	7.3
TX0119466	8/31/2021	001B	Oxygen, dissolved [DO]	7.05
TX0119466	9/30/2021	001B	Oxygen, dissolved [DO]	6.88
TX0119466	10/31/2021	001B	Oxygen, dissolved [DO]	6.7
TX0119466	11/30/2021	001B	Oxygen, dissolved [DO]	7.02
TX0119466	12/31/2021	001B	Oxygen, dissolved [DO]	7.45
TX0119466	1/31/2022	001B	Oxygen, dissolved [DO]	7.54
TX0119466	2/28/2022	001B	Oxygen, dissolved [DO]	7
TX0119466	3/31/2022	001B	Oxygen, dissolved [DO]	7.33
TX0119466	4/30/2022	001B	Oxygen, dissolved [DO]	7.22
TX0119466	5/31/2022	001B	Oxygen, dissolved [DO]	6.76
TX0119466	6/30/2022	001B	Oxygen, dissolved [DO]	7.29
TX0119466	7/31/2022	001B	Oxygen, dissolved [DO]	7.92
TX0119466	8/31/2022	001B	Oxygen, dissolved [DO]	7.73
TX0119466	9/30/2022	001B	Oxygen, dissolved [DO]	8.1
TX0119466	10/31/2022	001B	Oxygen, dissolved [DO]	8.27
TX0119466	11/30/2022	001B	Oxygen, dissolved [DO]	8.46
TX0119466	12/31/2022	001B	Oxygen, dissolved [DO]	8.88
TX0119466	1/31/2023	001B	Oxygen, dissolved [DO]	9.05
TX0119466	2/28/2023	001B	Oxygen, dissolved [DO]	9.01
TX0119466	3/31/2023	001B	Oxygen, dissolved [DO]	8.97
TX0119466	4/30/2023	001B	Oxygen, dissolved [DO]	8.77
TX0119466	5/31/2023	001B	Oxygen, dissolved [DO]	8.47
TX0119466	6/30/2023	001B	Oxygen, dissolved [DO]	8.28
TX0119466	7/31/2023	001B	Oxygen, dissolved [DO]	8.07
TX0119466	8/31/2023	001B	Oxygen, dissolved [DO]	7.93
TX0119466	9/30/2023	001B	Oxygen, dissolved [DO]	8.04
TX0119466	10/31/2023	001B	Oxygen, dissolved [DO]	7.99
TX0119466	11/30/2023	001B	Oxygen, dissolved [DO]	8.55
TX0119466	12/31/2023	001B	Oxygen, dissolved [DO]	8.87
TX0119466	1/31/2024	001B	Oxygen, dissolved [DO]	9.09
TX0119466	2/29/2024	001B	Oxygen, dissolved [DO]	8
TX0119466	3/31/2024	001B	Oxygen, dissolved [DO]	8.71
TX0119466	4/30/2024	001B	Oxygen, dissolved [DO]	8.78

TX0119466	5/31/2024	001B	Oxygen, dissolved [DO]	7.09
TX0119466	6/30/2024	001B	Oxygen, dissolved [DO]	6.9
TX0119466	7/31/2024	001B	Oxygen, dissolved [DO]	7.07
TX0119466	8/31/2024	001B	Oxygen, dissolved [DO]	6.79
TX0119466	9/30/2024	001B	Oxygen, dissolved [DO]	6.97
TX0119466	10/31/2024	001B	Oxygen, dissolved [DO]	7.65
TX0119466	11/30/2024	001B	Oxygen, dissolved [DO]	7.55
TX0119466	12/31/2024	001B	Oxygen, dissolved [DO]	8.63
TX0119466	1/31/2025	001B	Oxygen, dissolved [DO]	9.19
TX0119466	2/28/2025	001B	Oxygen, dissolved [DO]	9.01
TX0119466	3/31/2025	001B	Oxygen, dissolved [DO]	8.51
TX0119466	4/30/2025	001B	Oxygen, dissolved [DO]	8.12
TX0119466	5/31/2025	001B	Oxygen, dissolved [DO]	8.08
			2 YEAR AVERAGE	8.09
			5 YEAR AVERAGE	7.79

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure MINIMUM (SU)	Reported Measure MAXIMUM (SU)
TX0119466	5/31/2020	001B	pH	7.24	7.65
TX0119466	6/30/2020	001B	pH	7.25	7.61
TX0119466	7/31/2020	001B	pH	7.13	8.46
TX0119466	8/31/2020	001B	pH	6.91	7.59
TX0119466	9/30/2020	001B	pH	7.33	7.64
TX0119466	10/31/2020	001B	pH	7.24	7.61
TX0119466	11/30/2020	001B	pH	7.1	7.45
TX0119466	12/31/2020	001B	pH	7.09	7.72
TX0119466	1/31/2021	001B	pH	7.11	7.43
TX0119466	2/28/2021	001B	pH	6.89	8.42
TX0119466	3/31/2021	001B	pH	7.04	7.39
TX0119466	4/30/2021	001B	pH	7.01	7.91
TX0119466	5/31/2021	001B	pH	6.99	7.6
TX0119466	6/30/2021	001B	pH	7.11	7.62
TX0119466	7/31/2021	001B	pH	7.11	7.79
TX0119466	8/31/2021	001B	pH	7.08	8.16
TX0119466	9/30/2021	001B	pH	7.02	7.58
TX0119466	10/31/2021	001B	pH	7.07	7.43
TX0119466	11/30/2021	001B	pH	7.18	7.28
TX0119466	12/31/2021	001B	pH	6.65	7.83
TX0119466	1/31/2022	001B	pH	7.07	7.8
TX0119466	2/28/2022	001B	pH	7.08	7.39

TX0119466	3/31/2022	001B	pH	7.13	7.51
TX0119466	4/30/2022	001B	pH	7.18	7.64
TX0119466	5/31/2022	001B	pH	7.44	7.91
TX0119466	6/30/2022	001B	pH	7.71	8.85
TX0119466	7/31/2022	001B	pH	7.78	8.19
TX0119466	8/31/2022	001B	pH	7.4	8.02
TX0119466	9/30/2022	001B	pH	7.91	8.07
TX0119466	10/31/2022	001B	pH	7.9	8.12
TX0119466	11/30/2022	001B	pH	7.87	8.11
TX0119466	12/31/2022	001B	pH	7.83	8.19
TX0119466	1/31/2023	001B	pH	7.85	8.09
TX0119466	2/28/2023	001B	pH	7.8	7.98
TX0119466	3/31/2023	001B	pH	7.82	8.09
TX0119466	4/30/2023	001B	pH	7.77	8.64
TX0119466	5/31/2023	001B	pH	7.34	8.16
TX0119466	6/30/2023	001B	pH	7.81	8.13
TX0119466	7/31/2023	001B	pH	7.62	8.26
TX0119466	8/31/2023	001B	pH	8.01	8.57
TX0119466	9/30/2023	001B	pH	7.98	8.27
TX0119466	10/31/2023	001B	pH	7.83	8.42
TX0119466	11/30/2023	001B	pH	7.92	8.29
TX0119466	12/31/2023	001B	pH	7.87	8.45
TX0119466	1/31/2024	001B	pH	7.41	8.02
TX0119466	2/29/2024	001B	pH	7.32	7.88
TX0119466	3/31/2024	001B	pH	7.1	8.05
TX0119466	4/30/2024	001B	pH	7.77	8.01
TX0119466	5/31/2024	001B	pH	7.68	8.04
TX0119466	6/30/2024	001B	pH	7.86	8.47
TX0119466	7/31/2024	001B	pH	7.93	8.32
TX0119466	8/31/2024	001B	pH	7.95	8.23
TX0119466	9/30/2024	001B	pH	7.79	8.58
TX0119466	10/31/2024	001B	pH	7.8	8.18
TX0119466	11/30/2024	001B	pH	7.79	8.78
TX0119466	12/31/2024	001B	pH	7.77	8.12
TX0119466	1/31/2025	001B	pH	7.68	7.99
TX0119466	2/28/2025	001B	pH	7.25	7.91
TX0119466	3/31/2025	001B	pH	7.48	7.89
TX0119466	4/30/2025	001B	pH	7.38	7.92
TX0119466	5/31/2025	001B	pH	7.06	7.8
			2 YEAR AVERAGE	7.66	8.19
			5 YEAR AVERAGE	7.45	7.99

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure DAILY AV (mg/L)	Reported Measure DAILY MX (mg/L)	Reported Measure DAILY AV (lb/d)
TX0119466	5/31/2020	001B	Solids, total suspended	1.88	4	17.78
TX0119466	6/30/2020	001B	Solids, total suspended	1.56	2	9.89
TX0119466	7/31/2020	001B	Solids, total suspended	2.38	5	11.02
TX0119466	8/31/2020	001B	Solids, total suspended	1.75	3	7.56
TX0119466	9/30/2020	001B	Solids, total suspended	1.4	3	9.28
TX0119466	10/31/2020	001B	Solids, total suspended	1.63	2	7.21
TX0119466	11/30/2020	001B	Solids, total suspended	2	3	8.98
TX0119466	12/31/2020	001B	Solids, total suspended	2.7	4	18.3
TX0119466	1/31/2021	001B	Solids, total suspended	2.63	4	16.18
TX0119466	2/28/2021	001B	Solids, total suspended	1.75	3	12.17
TX0119466	3/31/2021	001B	Solids, total suspended	2.6	6	19.47
TX0119466	4/30/2021	001B	Solids, total suspended	2.25	4	13.26
TX0119466	5/31/2021	001B	Solids, total suspended	1.75	4	14.13
TX0119466	6/30/2021	001B	Solids, total suspended	1.5	3	11.14
TX0119466	7/31/2021	001B	Solids, total suspended	1.13	2	6.2
TX0119466	8/31/2021	001B	Solids, total suspended	1.33	2	8.07
TX0119466	9/30/2021	001B	Solids, total suspended	1.38	2	7.37
TX0119466	10/31/2021	001B	Solids, total suspended	1.25	3	11.34
TX0119466	11/30/2021	001B	Solids, total suspended	1.13	2	8.28
TX0119466	12/31/2021	001B	Solids, total suspended	1.78	2	11.96
TX0119466	1/31/2022	001B	Solids, total suspended	1.75	2	9.99
TX0119466	2/28/2022	001B	Solids, total suspended	1.63	3	14.85
TX0119466	3/31/2022	001B	Solids, total suspended	2.3	4	17.03
TX0119466	4/30/2022	001B	Solids, total suspended	3.75	7	24.79
TX0119466	5/31/2022	001B	Solids, total suspended	1.88	4	10.87
TX0119466	6/30/2022	001B	Solids, total suspended	2.44	3	16.06
TX0119466	7/31/2022	001B	Solids, total suspended	3.75	7	91.17
TX0119466	8/31/2022	001B	Solids, total suspended	3.9	7	85.07
TX0119466	9/30/2022	001B	Solids, total suspended	2.6	4	57.98
TX0119466	10/31/2022	001B	Solids, total suspended	2.56	4	57.31
TX0119466	11/30/2022	001B	Solids, total suspended	2	3	56.91
TX0119466	12/31/2022	001B	Solids, total suspended	1.63	3	47.06
TX0119466	1/31/2023	001B	Solids, total suspended	3	6	79.76
TX0119466	2/28/2023	001B	Solids, total suspended	2	3	61.65
TX0119466	3/31/2023	001B	Solids, total suspended	2.13	4	60.27
TX0119466	4/30/2023	001B	Solids, total suspended	1.63	3	50.56
TX0119466	5/31/2023	001B	Solids, total suspended	1.3	2	40.15

TX0119466	6/30/2023	001B	Solids, total suspended	1.75	3	48.47
TX0119466	7/31/2023	001B	Solids, total suspended	2.88	5	71.83
TX0119466	8/31/2023	001B	Solids, total suspended	1.89	3	48.54
TX0119466	9/30/2023	001B	Solids, total suspended	1.5	2	37.92
TX0119466	10/31/2023	001B	Solids, total suspended	1.5	3	44.82
TX0119466	11/30/2023	001B	Solids, total suspended	2	4	65.75
TX0119466	12/31/2023	001B	Solids, total suspended	1.63	3	49.88
TX0119466	1/31/2024	001B	Solids, total suspended	3.4	21	131.99
TX0119466	2/29/2024	001B	Solids, total suspended	1.5	2	58.09
TX0119466	3/31/2024	001B	Solids, total suspended	2.13	3	72.35
TX0119466	4/30/2024	001B	Solids, total suspended	1.8	3	61.89
TX0119466	5/31/2024	001B	Solids, total suspended	2	3	69.87
TX0119466	6/30/2024	001B	Solids, total suspended	1.25	2	43.86
TX0119466	7/31/2024	001B	Solids, total suspended	1.2	2	41.2
TX0119466	8/31/2024	001B	Solids, total suspended	1	1	30.06
TX0119466	9/30/2024	001B	Solids, total suspended	1.33	2	38.32
TX0119466	10/31/2024	001B	Solids, total suspended	1.11	2	29.35
TX0119466	11/30/2024	001B	Solids, total suspended	1	2	30.54
TX0119466	12/31/2024	001B	Solids, total suspended	2	4	62.74
TX0119466	1/31/2025	001B	Solids, total suspended	1.5	3	51.17
TX0119466	2/28/2025	001B	Solids, total suspended	1.5	2	54.17
TX0119466	3/31/2025	001B	Solids, total suspended	1.44	2	48.79
TX0119466	4/30/2025	001B	Solids, total suspended	1.78	2	58.46
TX0119466	5/31/2025	001B	Solids, total suspended	3.13	6	109.05
			2 YEAR AVERAGE	1.74	3.48	55.97
			5 YEAR AVERAGE	1.94	3.56	38.86

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure INST MAX (mg/L)
TX0119466	5/31/2020	001B	Chlorine, total residual	0.09
TX0119466	6/30/2020	001B	Chlorine, total residual	0.08
TX0119466	7/31/2020	001B	Chlorine, total residual	0.09
TX0119466	8/31/2020	001B	Chlorine, total residual	0.08
TX0119466	9/30/2020	001B	Chlorine, total residual	0.09
TX0119466	10/31/2020	001B	Chlorine, total residual	0.09
TX0119466	11/30/2020	001B	Chlorine, total residual	0.09
TX0119466	12/31/2020	001B	Chlorine, total residual	0.08
TX0119466	1/31/2021	001B	Chlorine, total residual	0.09
TX0119466	2/28/2021	001B	Chlorine, total residual	2.26
TX0119466	3/31/2021	001B	Chlorine, total residual	0.09

TX0119466	4/30/2021	001B	Chlorine, total residual	0.09
TX0119466	5/31/2021	001B	Chlorine, total residual	0.07
TX0119466	6/30/2021	001B	Chlorine, total residual	0.09
TX0119466	7/31/2021	001B	Chlorine, total residual	0.09
TX0119466	8/31/2021	001B	Chlorine, total residual	0.09
TX0119466	9/30/2021	001B	Chlorine, total residual	0.08
TX0119466	10/31/2021	001B	Chlorine, total residual	0.09
TX0119466	11/30/2021	001B	Chlorine, total residual	0.09
TX0119466	12/31/2021	001B	Chlorine, total residual	0.08
TX0119466	1/31/2022	001B	Chlorine, total residual	0.09
TX0119466	2/28/2022	001B	Chlorine, total residual	0.09
TX0119466	3/31/2022	001B	Chlorine, total residual	0.09
TX0119466	4/30/2022	001B	Chlorine, total residual	0.09
TX0119466	5/31/2022	001B	Chlorine, total residual	0.09
TX0119466	6/30/2022	001B	Chlorine, total residual	0.09
			2 YEAR AVERAGE	0.17

EPA ID				Reported Measure
	Monitoring Period	Outfall	Parameter	MO MIN (mg/L)
TX0119466	5/31/2020	001B	Chlorine, total residual	1.02
TX0119466	6/30/2020	001B	Chlorine, total residual	1.01
TX0119466	7/31/2020	001B	Chlorine, total residual	1.01
TX0119466	8/31/2020	001B	Chlorine, total residual	1.01
TX0119466	9/30/2020	001B	Chlorine, total residual	1.01
TX0119466	10/31/2020	001B	Chlorine, total residual	1.12
TX0119466	11/30/2020	001B	Chlorine, total residual	1.11
TX0119466	12/31/2020	001B	Chlorine, total residual	1.06
TX0119466	1/31/2021	001B	Chlorine, total residual	1.13
TX0119466	2/28/2021	001B	Chlorine, total residual	1.02
TX0119466	3/31/2021	001B	Chlorine, total residual	1.26
TX0119466	4/30/2021	001B	Chlorine, total residual	1.03
TX0119466	5/31/2021	001B	Chlorine, total residual	1.08
TX0119466	6/30/2021	001B	Chlorine, total residual	1.11
TX0119466	7/31/2021	001B	Chlorine, total residual	1.03
TX0119466	8/31/2021	001B	Chlorine, total residual	1
TX0119466	9/30/2021	001B	Chlorine, total residual	1
TX0119466	10/31/2021	001B	Chlorine, total residual	1.03
TX0119466	11/30/2021	001B	Chlorine, total residual	1.01
TX0119466	12/31/2021	001B	Chlorine, total residual	1

TX0119466	1/31/2022	001B	Chlorine, total residual	1
TX0119466	2/28/2022	001B	Chlorine, total residual	1.01
TX0119466	3/31/2022	001B	Chlorine, total residual	1.08
TX0119466	4/30/2022	001B	Chlorine, total residual	1.01
TX0119466	5/31/2022	001B	Chlorine, total residual	1
TX0119466	6/30/2022	001B	Chlorine, total residual	1.01
			2 YEAR AVERAGE	1.04

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 2HR PEAK (gal/min)
TX0119466	5/31/2020	001B	Flow, in conduit or thru treatment plant	6595
TX0119466	6/30/2020	001B	Flow, in conduit or thru treatment plant	3730
TX0119466	7/31/2020	001B	Flow, in conduit or thru treatment plant	2885
TX0119466	8/31/2020	001B	Flow, in conduit or thru treatment plant	2780
TX0119466	9/30/2020	001B	Flow, in conduit or thru treatment plant	3971
TX0119466	10/31/2020	001B	Flow, in conduit or thru treatment plant	2956
TX0119466	11/30/2020	001B	Flow, in conduit or thru treatment plant	3088
TX0119466	12/31/2020	001B	Flow, in conduit or thru treatment plant	3270
TX0119466	1/31/2021	001B	Flow, in conduit or thru treatment plant	3599
TX0119466	2/28/2021	001B	Flow, in conduit or thru treatment plant	3255
TX0119466	3/31/2021	001B	Flow, in conduit or thru treatment plant	3305
TX0119466	4/30/2021	001B	Flow, in conduit or thru treatment plant	3220
TX0119466	5/31/2021	001B	Flow, in conduit or thru treatment plant	4619
TX0119466	6/30/2021	001B	Flow, in conduit or thru treatment plant	4775
TX0119466	7/31/2021	001B	Flow, in conduit or thru treatment plant	3907
TX0119466	8/31/2021	001B	Flow, in conduit or thru treatment plant	3321
TX0119466	9/30/2021	001B	Flow, in conduit or thru treatment plant	3114
TX0119466	10/31/2021	001B	Flow, in conduit or thru treatment plant	3850
TX0119466	11/30/2021	001B	Flow, in conduit or thru treatment plant	3755
TX0119466	12/31/2021	001B	Flow, in conduit or thru treatment plant	3525
TX0119466	1/31/2022	001B	Flow, in conduit or thru treatment plant	3736
TX0119466	2/28/2022	001B	Flow, in conduit or thru treatment plant	5505
TX0119466	3/31/2022	001B	Flow, in conduit or thru treatment plant	3537
TX0119466	4/30/2022	001B	Flow, in conduit or thru treatment plant	3714
TX0119466	5/31/2022	001B	Flow, in conduit or thru treatment plant	3471
TX0119466	6/30/2022	001B	Flow, in conduit or thru treatment plant	2889
TX0119466	7/31/2022	001B	Flow, in conduit or thru treatment plant	2064
TX0119466	8/31/2022	001B	Flow, in conduit or thru treatment plant	3266
TX0119466	9/30/2022	001B	Flow, in conduit or thru treatment plant	4080

TX0119466	10/31/2022	001B	Flow, in conduit or thru treatment plant	3587
TX0119466	11/30/2022	001B	Flow, in conduit or thru treatment plant	4701
TX0119466	12/31/2022	001B	Flow, in conduit or thru treatment plant	4047
TX0119466	1/31/2023	001B	Flow, in conduit or thru treatment plant	3866
TX0119466	2/28/2023	001B	Flow, in conduit or thru treatment plant	4464
TX0119466	3/31/2023	001B	Flow, in conduit or thru treatment plant	3964
TX0119466	4/30/2023	001B	Flow, in conduit or thru treatment plant	4786
TX0119466	5/31/2023	001B	Flow, in conduit or thru treatment plant	5266
TX0119466	6/30/2023	001B	Flow, in conduit or thru treatment plant	4031
TX0119466	7/31/2023	001B	Flow, in conduit or thru treatment plant	4109
TX0119466	8/31/2023	001B	Flow, in conduit or thru treatment plant	4127
TX0119466	9/30/2023	001B	Flow, in conduit or thru treatment plant	4146
TX0119466	10/31/2023	001B	Flow, in conduit or thru treatment plant	6258
TX0119466	11/30/2023	001B	Flow, in conduit or thru treatment plant	4803
TX0119466	12/31/2023	001B	Flow, in conduit or thru treatment plant	5372
TX0119466	1/31/2024	001B	Flow, in conduit or thru treatment plant	10430
TX0119466	2/29/2024	001B	Flow, in conduit or thru treatment plant	5739
TX0119466	3/31/2024	001B	Flow, in conduit or thru treatment plant	4876
TX0119466	4/30/2024	001B	Flow, in conduit or thru treatment plant	5090
TX0119466	5/31/2024	001B	Flow, in conduit or thru treatment plant	6154
TX0119466	6/30/2024	001B	Flow, in conduit or thru treatment plant	5410
TX0119466	7/31/2024	001B	Flow, in conduit or thru treatment plant	5441
TX0119466	8/31/2024	001B	Flow, in conduit or thru treatment plant	4651
TX0119466	9/30/2024	001B	Flow, in conduit or thru treatment plant	4607
TX0119466	10/31/2024	001B	Flow, in conduit or thru treatment plant	4579
TX0119466	11/30/2024	001B	Flow, in conduit or thru treatment plant	4381
TX0119466	12/31/2024	001B	Flow, in conduit or thru treatment plant	4501
TX0119466	1/31/2025	001B	Flow, in conduit or thru treatment plant	4584
TX0119466	2/28/2025	001B	Flow, in conduit or thru treatment plant	5409
TX0119466	3/31/2025	001B	Flow, in conduit or thru treatment plant	5243
TX0119466	4/30/2025	001B	Flow, in conduit or thru treatment plant	4952
TX0119466	5/31/2025	001B	Flow, in conduit or thru treatment plant	5496
			2 YEAR AVERAGE	5186
			5 YEAR AVERAGE	4342

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ANNL AVG (MGD)	PERCENT OF LIMIT
TX0119466	5/31/2020	001B	Flow, in conduit or thru treatment plant	2.55	56.62%
TX0119466	6/30/2020	001B	Flow, in conduit or thru treatment plant	2.56	56.98%
TX0119466	7/31/2020	001B	Flow, in conduit or thru treatment plant	2.55	56.69%

Enter Flow Limit Below in MGD: 4.50

TX0119466	8/31/2020	001B	Flow, in conduit or thru treatment plant	2.57	57.11%
TX0119466	9/30/2020	001B	Flow, in conduit or thru treatment plant	2.62	58.27%
TX0119466	10/31/2020	001B	Flow, in conduit or thru treatment plant	2.64	58.71%
TX0119466	11/30/2020	001B	Flow, in conduit or thru treatment plant	2.66	59.00%
TX0119466	12/31/2020	001B	Flow, in conduit or thru treatment plant	2.68	59.51%
TX0119466	1/31/2021	001B	Flow, in conduit or thru treatment plant	2.71	60.31%
TX0119466	2/28/2021	001B	Flow, in conduit or thru treatment plant	2.76	61.29%
TX0119466	3/31/2021	001B	Flow, in conduit or thru treatment plant	2.77	61.56%
TX0119466	4/30/2021	001B	Flow, in conduit or thru treatment plant	2.74	60.84%
TX0119466	5/31/2021	001B	Flow, in conduit or thru treatment plant	2.74	60.98%
TX0119466	6/30/2021	001B	Flow, in conduit or thru treatment plant	2.78	61.82%
TX0119466	7/31/2021	001B	Flow, in conduit or thru treatment plant	2.85	63.27%
TX0119466	8/31/2021	001B	Flow, in conduit or thru treatment plant	2.87	63.80%
TX0119466	9/30/2021	001B	Flow, in conduit or thru treatment plant	2.85	63.36%
TX0119466	10/31/2021	001B	Flow, in conduit or thru treatment plant	2.93	65.00%
TX0119466	11/30/2021	001B	Flow, in conduit or thru treatment plant	2.97	66.07%
TX0119466	12/31/2021	001B	Flow, in conduit or thru treatment plant	3.01	66.91%
TX0119466	1/31/2022	001B	Flow, in conduit or thru treatment plant	3.03	67.22%
TX0119466	2/28/2022	001B	Flow, in conduit or thru treatment plant	3.08	68.51%
TX0119466	3/31/2022	001B	Flow, in conduit or thru treatment plant	3.11	69.00%
TX0119466	4/30/2022	001B	Flow, in conduit or thru treatment plant	3.13	69.49%
TX0119466	5/31/2022	001B	Flow, in conduit or thru treatment plant	3.07	68.24%
TX0119466	6/30/2022	001B	Flow, in conduit or thru treatment plant	3.05	67.82%
TX0119466	7/31/2022	001B	Flow, in conduit or thru treatment plant	3.09	68.62%
TX0119466	8/31/2022	001B	Flow, in conduit or thru treatment plant	3.12	69.40%
TX0119466	9/30/2022	001B	Flow, in conduit or thru treatment plant	3.17	70.53%
TX0119466	10/31/2022	001B	Flow, in conduit or thru treatment plant	3.15	69.98%
TX0119466	11/30/2022	001B	Flow, in conduit or thru treatment plant	3.17	70.51%
TX0119466	12/31/2022	001B	Flow, in conduit or thru treatment plant	3.21	71.22%
TX0119466	1/31/2023	001B	Flow, in conduit or thru treatment plant	3.23	71.78%
TX0119466	2/28/2023	001B	Flow, in conduit or thru treatment plant	3.23	71.67%
TX0119466	3/31/2023	001B	Flow, in conduit or thru treatment plant	3.26	72.42%
TX0119466	4/30/2023	001B	Flow, in conduit or thru treatment plant	3.32	73.71%
TX0119466	5/31/2023	001B	Flow, in conduit or thru treatment plant	3.40	75.47%
TX0119466	6/30/2023	001B	Flow, in conduit or thru treatment plant	3.45	76.58%
TX0119466	7/31/2023	001B	Flow, in conduit or thru treatment plant	3.47	77.07%
TX0119466	8/31/2023	001B	Flow, in conduit or thru treatment plant	3.51	77.96%
TX0119466	9/30/2023	001B	Flow, in conduit or thru treatment plant	3.54	78.67%
TX0119466	10/31/2023	001B	Flow, in conduit or thru treatment plant	3.60	79.91%
TX0119466	11/30/2023	001B	Flow, in conduit or thru treatment plant	3.64	80.96%
TX0119466	12/31/2023	001B	Flow, in conduit or thru treatment plant	3.67	81.47%

TX0119466	1/31/2024	001B	Flow, in conduit or thru treatment plant	3.82	84.82%	
TX0119466	2/29/2024	001B	Flow, in conduit or thru treatment plant	3.89	86.42%	
TX0119466	3/31/2024	001B	Flow, in conduit or thru treatment plant	3.94	87.51%	
TX0119466	4/30/2024	001B	Flow, in conduit or thru treatment plant	3.98	88.44%	
TX0119466	5/31/2024	001B	Flow, in conduit or thru treatment plant	4.02	89.31%	
TX0119466	6/30/2024	001B	Flow, in conduit or thru treatment plant	4.09	90.78%	
TX0119466	7/31/2024	001B	Flow, in conduit or thru treatment plant	4.15	92.27%	
TX0119466	8/31/2024	001B	Flow, in conduit or thru treatment plant	4.18	92.98%	
TX0119466	9/30/2024	001B	Flow, in conduit or thru treatment plant	4.21	93.53%	
TX0119466	10/31/2024	001B	Flow, in conduit or thru treatment plant	4.20	93.31%	
TX0119466	11/30/2024	001B	Flow, in conduit or thru treatment plant	4.19	93.00%	
TX0119466	12/31/2024	001B	Flow, in conduit or thru treatment plant	4.19	93.20%	
TX0119466	1/31/2025	001B	Flow, in conduit or thru treatment plant	4.10	91.09%	
TX0119466	2/28/2025	001B	Flow, in conduit or thru treatment plant	4.08	90.56%	
TX0119466	3/31/2025	001B	Flow, in conduit or thru treatment plant	4.10	91.00%	
TX0119466	4/30/2025	001B	Flow, in conduit or thru treatment plant	4.11	91.24%	
TX0119466	5/31/2025	001B	Flow, in conduit or thru treatment plant	4.11	91.40%	75/90 Rule
			2 YEAR AVERAGE	3.90	75% Limit = 3.375	YES
			5 YEAR AVERAGE	3.32	90% Limit = 4.05	YES

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure VALUE (N=0;Y=1)
TX0119466	7/31/2020	SLDF	Compliance w/part 258 sludge requirement	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ANNL TOT (DMT/y)
TX0119466	7/31/2020	SLDP	Annual amount of sludge land applied	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ANNL TOT (DMT/y)
TX0119466	7/31/2020	SLDP	Annual amt of sludge incinerated	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ANNL TOT (DMT/y)
TX0119466	7/31/2020	SLDP	Annual amt sludge disposed in landfill	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure
				ANNL TOT (DMT/y)
TX0119466	7/31/2020	SLDP	Annual amt. sludge disposed surface unit	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure
				ANNL TOT (DMT/y)
TX0119466	7/31/2020	SLDP	Annual amt sludge transported interstate	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure
				ANNL TOT (DMT/y)
TX0119466	7/31/2020	SLDP	Annual sludge production, total	5081.79

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure
				ANNL MAX (mg/kg)
TX0119466	7/31/2020	SLDP	Polychlorinated biphenyls [PCBs]	NODI=9

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure
				MO AV MN (pass=0;fail=1)
TX0119466	7/31/2020	SLDP	Toxicity characteristic leaching procedure	NODI=9

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure
				ANNL TOT (DMT/y)
TX0119466	7/31/2020	SLDP	Ann. amt sludge disposed by other method	5081.79

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure
				MX VALUE (met t/ha/yr)
TX0119466	7/31/2020	SLLA	Annual whole sludge application rate	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure	Reported Measure	Reported Measure
				SINGSAMP (mg/kg)	MAXIMUM (mg/kg)	MX VALUE (lb/acr)
TX0119466	7/31/2020	SLLA	Arsenic, dry weight	NODI=C	NODI=C	NODI=C

EPA ID				Reported Measure	Reported Measure	Reported Measure

	Monitoring Period	Outfall	Parameter	SINGSAMP (mg/kg)	MAXIMUM (mg/kg)	MX VALUE (lb/acr)
TX0119466	7/31/2020	SLLA	Cadmium, dry weight	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MX VALUE (lb/acr)
TX0119466	7/31/2020	SLLA	Chromium, sludge, total, dry weight [as Cr]	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MX VALUE (lb/acr)
TX0119466	7/31/2020	SLLA	Copper, dry weight	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MX VALUE (lb/acr)
TX0119466	7/31/2020	SLLA	Lead, sludge, total, dry weight [as Pb]	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MX VALUE (lb/acr)
TX0119466	7/31/2020	SLLA	Mercury, sludge, total, dry weight [as Hg]	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MX VALUE (lb/acr)
TX0119466	7/31/2020	SLLA	Molybdenum, sludge, total, dry weight [as Mo]	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MX VALUE (lb/acr)
TX0119466	7/31/2020	SLLA	Nickel, sludge, total, dry weight [as Ni]	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MX VALUE (lb/acr)
TX0119466	7/31/2020	SLLA	Selenium, dry weight	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MX VALUE (lb/acr)
TX0119466	7/31/2020	SLLA	Zinc, sludge, total, dry weight [as Zn]	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure VALUE (table #)
TX0119466	7/31/2020	SLLA	Pollutant table from 503.13	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure VALUE (alt #)
TX0119466	7/31/2020	SLLA	Description of pathogen option used	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure VALUE (alt #)
TX0119466	7/31/2020	SLLA	Vector attraction reduction alternative used	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure MX VALUE (state class)
TX0119466	7/31/2020	SLLA	Level of pathogen requirements achieved	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure MAXIMUM (MPN/g)
TX0119466	7/31/2020	SLLY	Fecal coliform	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure MAXIMUM (MPN/g)
TX0119466	7/31/2020	SLLY	Salmonella	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ALLWCONC (mg/kg)	Reported Measure SINGSAMP (mg/kg)
TX0119466	7/31/2020	SLSA	Arsenic, dry weight	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure VALUE (acr)
TX0119466	7/31/2020	SLSA	Boundary areas	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ALLWCONC (mg/kg)	Reported Measure SINGSAMP (mg/kg)

TX0119466	7/31/2020	SLSA	Chromium, sludge, total, dry weight [as Cr]	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure VALUE (alt #)
TX0119466	7/31/2020	SLSA	Description of pathogen option used	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ALLWCONC (mg/kg)	Reported Measure SINGSAMP (mg/kg)
TX0119466	7/31/2020	SLSA	Nickel, total [as Ni]	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure MINIMUM (SU)
TX0119466	7/31/2020	SLSA	pH	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure VALUE (N=0;Y=1)
TX0119466	7/31/2020	SLSA	Unit w/liner/leachate collection system	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure VALUE (alt #)
TX0119466	7/31/2020	SLSA	Vector attraction reduction alternative used	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (state class)
TX0119466	7/31/2020	SLSA	Level of pathogen requirements achieved	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (%)	Reported Measure MO AV MN (%)
TX0119466	6/30/2020	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic C	NODI=Q	NODI=Q
TX0119466	9/30/2020	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic C	NODI=Q	NODI=Q
TX0119466	3/31/2021	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic C	NODI=Q	NODI=Q
TX0119466	6/30/2021	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic C	NODI=Q	NODI=Q
TX0119466	9/30/2021	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic C	NODI=Q	NODI=Q
TX0119466	12/31/2021	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic C	NODI=Q	NODI=Q
TX0119466	3/31/2022	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic C	NODI=Q	NODI=Q
TX0119466	6/30/2022	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic C	NODI=Q	NODI=Q

TX0119466	9/30/2022	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic C	NODI=Q	NODI=Q
TX0119466	12/31/2022	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic C	NODI=Q	NODI=Q
TX0119466	3/31/2023	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic C	NODI=Q	NODI=Q
TX0119466	6/30/2023	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic C	NODI=Q	NODI=Q
TX0119466	9/30/2023	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic C	NODI=Q	NODI=Q
TX0119466	12/31/2023	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic C	NODI=Q	NODI=Q
TX0119466	3/31/2024	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic C	NODI=Q	NODI=Q
TX0119466	6/30/2024	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic C	NODI=Q	NODI=Q
TX0119466	9/30/2024	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic C	NODI=Q	NODI=Q
TX0119466	12/31/2024	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic C	NODI=Q	NODI=Q

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (%)	Reported Measure MO AV MN (%)
TX0119466	6/30/2020	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic P	NODI=Q	NODI=Q
TX0119466	9/30/2020	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic P	NODI=Q	NODI=Q
TX0119466	3/31/2021	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic P	NODI=Q	NODI=Q
TX0119466	6/30/2021	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic P	NODI=Q	NODI=Q
TX0119466	9/30/2021	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic P	NODI=Q	NODI=Q
TX0119466	12/31/2021	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic P	NODI=Q	NODI=Q
TX0119466	3/31/2022	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic P	NODI=Q	NODI=Q
TX0119466	6/30/2022	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic P	NODI=Q	NODI=Q
TX0119466	9/30/2022	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic P	NODI=Q	NODI=Q
TX0119466	12/31/2022	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic P	NODI=Q	NODI=Q
TX0119466	3/31/2023	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic P	NODI=Q	NODI=Q
TX0119466	6/30/2023	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic P	NODI=Q	NODI=Q
TX0119466	9/30/2023	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic P	NODI=Q	NODI=Q
TX0119466	12/31/2023	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic P	NODI=Q	NODI=Q
TX0119466	3/31/2024	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic P	NODI=Q	NODI=Q
TX0119466	6/30/2024	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic P	NODI=Q	NODI=Q
TX0119466	9/30/2024	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic P	NODI=Q	NODI=Q
TX0119466	12/31/2024	TX1Q	LOEC Lethal Survival Static Renewal 7 Day Chronic P	NODI=Q	NODI=Q

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (%)	Reported Measure MO AV MN (%)
TX0119466	6/30/2020	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0119466	9/30/2020	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0119466	3/31/2021	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0119466	6/30/2021	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0119466	9/30/2021	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	42	42
TX0119466	12/31/2021	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q

TX0119466	3/31/2022	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0119466	6/30/2022	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0119466	9/30/2022	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0119466	12/31/2022	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0119466	3/31/2023	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0119466	6/30/2023	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0119466	9/30/2023	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0119466	12/31/2023	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0119466	3/31/2024	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0119466	6/30/2024	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0119466	9/30/2024	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0119466	12/31/2024	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (%)	Reported Measure MO AV MN (%)
TX0119466	6/30/2020	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0119466	9/30/2020	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0119466	3/31/2021	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0119466	6/30/2021	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0119466	9/30/2021	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0119466	12/31/2021	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0119466	3/31/2022	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0119466	6/30/2022	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0119466	9/30/2022	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0119466	12/31/2022	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0119466	3/31/2023	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0119466	6/30/2023	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0119466	9/30/2023	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0119466	12/31/2023	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0119466	3/31/2024	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0119466	6/30/2024	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0119466	9/30/2024	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0119466	12/31/2024	TX1Q	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (pass=0;fail=	Reported Measure MO AV MN (pass=0;fail=1)
TX0119466	6/30/2020	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0119466	9/30/2020	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0119466	3/31/2021	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0119466	6/30/2021	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0

TX0119466	9/30/2021	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0119466	12/31/2021	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0119466	3/31/2022	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0119466	6/30/2022	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0119466	9/30/2022	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0119466	12/31/2022	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0119466	3/31/2023	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0119466	6/30/2023	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0119466	9/30/2023	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0119466	12/31/2023	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0119466	3/31/2024	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0119466	6/30/2024	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0119466	9/30/2024	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0119466	12/31/2024	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (pass=0;fail=	Reported Measure MO AV MN (pass=0;fail=1)
TX0119466	6/30/2020	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0119466	9/30/2020	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0119466	3/31/2021	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0119466	6/30/2021	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0119466	9/30/2021	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0119466	12/31/2021	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0119466	3/31/2022	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0119466	6/30/2022	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0119466	9/30/2022	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0119466	12/31/2022	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0119466	3/31/2023	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0119466	6/30/2023	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0119466	9/30/2023	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0119466	12/31/2023	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0119466	3/31/2024	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0119466	6/30/2024	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0119466	9/30/2024	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0119466	12/31/2024	TX1Q	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (%)	Reported Measure MO AV MN (%)
TX0119466	6/30/2020	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Ceriodaph	99	99
TX0119466	9/30/2020	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Ceriodaph	99	99

TX0119466	3/31/2021	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Ceriodaph	99	99
TX0119466	6/30/2021	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Ceriodaph	99	99
TX0119466	9/30/2021	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Ceriodaph	100	100
TX0119466	12/31/2021	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Ceriodaph	100	100
TX0119466	3/31/2022	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Ceriodaph	100	100
TX0119466	6/30/2022	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Ceriodaph	100	100
TX0119466	9/30/2022	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Ceriodaph	100	100
TX0119466	12/31/2022	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Ceriodaph	100	100
TX0119466	3/31/2023	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Ceriodaph	100	100
TX0119466	6/30/2023	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Ceriodaph	100	100
TX0119466	9/30/2023	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Ceriodaph	100	100
TX0119466	12/31/2023	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Ceriodaph	100	100
TX0119466	3/31/2024	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Ceriodaph	100	100
TX0119466	6/30/2024	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Ceriodaph	100	100
TX0119466	9/30/2024	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Ceriodaph	100	100
TX0119466	12/31/2024	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Ceriodaph	100	100

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (%)	Reported Measure MO AV MN (%)
TX0119466	6/30/2020	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Pimephale	99	99
TX0119466	9/30/2020	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Pimephale	99	99
TX0119466	3/31/2021	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Pimephale	99	99
TX0119466	6/30/2021	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Pimephale	99	99
TX0119466	9/30/2021	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Pimephale	100	100
TX0119466	12/31/2021	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Pimephale	100	100
TX0119466	3/31/2022	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Pimephale	100	100
TX0119466	6/30/2022	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Pimephale	100	100
TX0119466	9/30/2022	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Pimephale	100	100
TX0119466	12/31/2022	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Pimephale	100	100
TX0119466	3/31/2023	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Pimephale	100	100
TX0119466	6/30/2023	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Pimephale	100	100
TX0119466	9/30/2023	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Pimephale	100	100
TX0119466	12/31/2023	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Pimephale	100	100
TX0119466	3/31/2024	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Pimephale	100	100
TX0119466	6/30/2024	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Pimephale	100	100
TX0119466	9/30/2024	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Pimephale	100	100
TX0119466	12/31/2024	TX1Q	NOEC Lethal Static Renewal 7 Day Chronic Pimephale	100	100

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA AVG (%)	Reported Measure MO AV MN (%)

TX0119466	6/30/2020	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Ceric	99	99
TX0119466	9/30/2020	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Ceric	99	99
TX0119466	3/31/2021	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Ceric	99	99
TX0119466	6/30/2021	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Ceric	99	99
TX0119466	9/30/2021	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Ceric	32	32
TX0119466	12/31/2021	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Ceric	100	100
TX0119466	3/31/2022	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Ceric	100	100
TX0119466	6/30/2022	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Ceric	100	100
TX0119466	9/30/2022	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Ceric	100	100
TX0119466	12/31/2022	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Ceric	100	100
TX0119466	3/31/2023	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Ceric	100	100
TX0119466	6/30/2023	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Ceric	100	100
TX0119466	9/30/2023	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Ceric	100	100
TX0119466	12/31/2023	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Ceric	100	100
TX0119466	3/31/2024	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Ceric	100	100
TX0119466	6/30/2024	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Ceric	100	100
TX0119466	9/30/2024	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Ceric	100	100
TX0119466	12/31/2024	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Ceric	100	100

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (%)	Reported Measure MO AV MN (%)
TX0119466	6/30/2020	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Pime	99	99
TX0119466	9/30/2020	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Pime	99	99
TX0119466	3/31/2021	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Pime	99	99
TX0119466	6/30/2021	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Pime	99	99
TX0119466	9/30/2021	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Pime	100	100
TX0119466	12/31/2021	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Pime	100	100
TX0119466	3/31/2022	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Pime	100	100
TX0119466	6/30/2022	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Pime	100	100
TX0119466	9/30/2022	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Pime	100	100
TX0119466	12/31/2022	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Pime	100	100
TX0119466	3/31/2023	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Pime	100	100
TX0119466	6/30/2023	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Pime	100	100
TX0119466	9/30/2023	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Pime	100	100
TX0119466	12/31/2023	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Pime	100	100
TX0119466	3/31/2024	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Pime	100	100
TX0119466	6/30/2024	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Pime	100	100
TX0119466	9/30/2024	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Pime	100	100
TX0119466	12/31/2024	TX1Q	NOEC Sub-Lethal Static Renewal 7 Day Chronic Pime	100	100

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (pass=0;fail=	Reported Measure MO AV MN (pass=0;fail=1)
TX0119466	6/30/2020	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Ce	0	0
TX0119466	9/30/2020	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Ce	0	0
TX0119466	3/31/2021	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Ce	0	0
TX0119466	6/30/2021	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Ce	0	0
TX0119466	9/30/2021	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Ce	1	1
TX0119466	12/31/2021	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Ce	0	0
TX0119466	3/31/2022	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Ce	0	0
TX0119466	6/30/2022	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Ce	0	0
TX0119466	9/30/2022	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Ce	0	0
TX0119466	12/31/2022	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Ce	0	0
TX0119466	3/31/2023	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Ce	0	0
TX0119466	6/30/2023	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Ce	0	0
TX0119466	9/30/2023	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Ce	0	0
TX0119466	12/31/2023	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Ce	0	0
TX0119466	3/31/2024	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Ce	0	0
TX0119466	6/30/2024	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Ce	0	0
TX0119466	9/30/2024	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Ce	0	0
TX0119466	12/31/2024	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Ce	0	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (pass=0;fail=	Reported Measure MO AV MN (pass=0;fail=1)
TX0119466	6/30/2020	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Pi	0	0
TX0119466	9/30/2020	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Pi	0	0
TX0119466	3/31/2021	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Pi	0	0
TX0119466	6/30/2021	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Pi	0	0
TX0119466	9/30/2021	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Pi	0	0
TX0119466	12/31/2021	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Pi	0	0
TX0119466	3/31/2022	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Pi	0	0
TX0119466	6/30/2022	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Pi	0	0
TX0119466	9/30/2022	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Pi	0	0
TX0119466	12/31/2022	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Pi	0	0
TX0119466	3/31/2023	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Pi	0	0
TX0119466	6/30/2023	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Pi	0	0
TX0119466	9/30/2023	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Pi	0	0
TX0119466	12/31/2023	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Pi	0	0
TX0119466	3/31/2024	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Pi	0	0
TX0119466	6/30/2024	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Pi	0	0
TX0119466	9/30/2024	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Pi	0	0
TX0119466	12/31/2024	TX1Q	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Pi	0	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (pass=0;fail=1)	Reported Measure MO AV MN (pass=0;fail=1)
TX0119466	6/30/2020	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0119466	9/30/2020	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0119466	3/31/2021	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0119466	6/30/2021	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0119466	9/30/2021	TX1Q	Whole effluent toxicity - retest #1	0	0
TX0119466	12/31/2021	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0119466	3/31/2022	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0119466	6/30/2022	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0119466	9/30/2022	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0119466	12/31/2022	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0119466	3/31/2023	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0119466	6/30/2023	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0119466	9/30/2023	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0119466	12/31/2023	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0119466	3/31/2024	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0119466	6/30/2024	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0119466	9/30/2024	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0119466	12/31/2024	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (pass=0;fail=1)	Reported Measure MO AV MN (pass=0;fail=1)
TX0119466	6/30/2020	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9
TX0119466	9/30/2020	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9
TX0119466	3/31/2021	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9
TX0119466	6/30/2021	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9
TX0119466	9/30/2021	TX1Q	Whole effluent toxicity - retest #2	0	0
TX0119466	12/31/2021	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9
TX0119466	3/31/2022	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9
TX0119466	6/30/2022	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9
TX0119466	9/30/2022	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9
TX0119466	12/31/2022	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9
TX0119466	3/31/2023	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9
TX0119466	6/30/2023	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9
TX0119466	9/30/2023	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9
TX0119466	12/31/2023	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9
TX0119466	3/31/2024	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9
TX0119466	6/30/2024	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9

TX0119466	9/30/2024	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9
TX0119466	12/31/2024	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (pass=0;fail=1)
TX0119466	6/30/2020	TXAS	LC50 Pass/Fail Static 24Hr Acute D. Pulex	0
TX0119466	6/30/2021	TXAS	LC50 Pass/Fail Static 24Hr Acute D. Pulex	0
TX0119466	12/31/2021	TXAS	LC50 Pass/Fail Static 24Hr Acute D. Pulex	0
TX0119466	6/30/2022	TXAS	LC50 Pass/Fail Static 24Hr Acute D. Pulex	0
TX0119466	12/31/2022	TXAS	LC50 Pass/Fail Static 24Hr Acute D. Pulex	0
TX0119466	6/30/2023	TXAS	LC50 Pass/Fail Static 24Hr Acute D. Pulex	0
TX0119466	12/31/2023	TXAS	LC50 Pass/Fail Static 24Hr Acute D. Pulex	0
TX0119466	6/30/2024	TXAS	LC50 Pass/Fail Static 24Hr Acute D. Pulex	0
TX0119466	12/31/2024	TXAS	LC50 Pass/Fail Static 24Hr Acute D. Pulex	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (pass=0;fail=1)
TX0119466	6/30/2020	TXAS	LC50 Pass/Fail Static 24Hr Acute Pimephales promela	0
TX0119466	6/30/2021	TXAS	LC50 Pass/Fail Static 24Hr Acute Pimephales promela	0
TX0119466	12/31/2021	TXAS	LC50 Pass/Fail Static 24Hr Acute Pimephales promela	0
TX0119466	6/30/2022	TXAS	LC50 Pass/Fail Static 24Hr Acute Pimephales promela	0
TX0119466	12/31/2022	TXAS	LC50 Pass/Fail Static 24Hr Acute Pimephales promela	0
TX0119466	6/30/2023	TXAS	LC50 Pass/Fail Static 24Hr Acute Pimephales promela	0
TX0119466	12/31/2023	TXAS	LC50 Pass/Fail Static 24Hr Acute Pimephales promela	0
TX0119466	6/30/2024	TXAS	LC50 Pass/Fail Static 24Hr Acute Pimephales promela	0
TX0119466	12/31/2024	TXAS	LC50 Pass/Fail Static 24Hr Acute Pimephales promela	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (pass=0;fail=1)
TX0119466	6/30/2020	TXAS	Whole effluent toxicity - retest #1	NODI=9
TX0119466	6/30/2021	TXAS	Whole effluent toxicity - retest #1	NODI=9
TX0119466	12/31/2021	TXAS	Whole effluent toxicity - retest #1	NODI=9
TX0119466	6/30/2022	TXAS	Whole effluent toxicity - retest #1	NODI=9
TX0119466	12/31/2022	TXAS	Whole effluent toxicity - retest #1	NODI=9
TX0119466	6/30/2023	TXAS	Whole effluent toxicity - retest #1	NODI=9
TX0119466	12/31/2023	TXAS	Whole effluent toxicity - retest #1	NODI=9
TX0119466	6/30/2024	TXAS	Whole effluent toxicity - retest #1	NODI=9
TX0119466	12/31/2024	TXAS	Whole effluent toxicity - retest #1	NODI=9

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (pass=0;fail=1)
TX0119466	6/30/2020	TXAS	Whole effluent toxicity - retest #2	NODI=9
TX0119466	6/30/2021	TXAS	Whole effluent toxicity - retest #2	NODI=9
TX0119466	12/31/2021	TXAS	Whole effluent toxicity - retest #2	NODI=9
TX0119466	6/30/2022	TXAS	Whole effluent toxicity - retest #2	NODI=9
TX0119466	12/31/2022	TXAS	Whole effluent toxicity - retest #2	NODI=9
TX0119466	6/30/2023	TXAS	Whole effluent toxicity - retest #2	NODI=9
TX0119466	12/31/2023	TXAS	Whole effluent toxicity - retest #2	NODI=9
TX0119466	6/30/2024	TXAS	Whole effluent toxicity - retest #2	NODI=9
TX0119466	12/31/2024	TXAS	Whole effluent toxicity - retest #2	NODI=9

TCEQ Interoffice Memorandum

To: Municipal Permits Team
Wastewater Permitting Section

From: Sarah Musgrove, Water Quality Assessment Team
Water Quality Assessment Section

Date: July 7, 2025

Subject: City of Kyle
Wastewater Permit No. WQ0011041002
Critical Conditions Recommendation Memo

The following information applies to **Outfall 001.**

The TexTox menu number is **3** for a perennial freshwater ditch, stream, or river.

This discharge is to Plum Creek (Segment No. 1810).

Segment No.	1810
Effluent Flow for Aquatic Life (MGD)	12 (Permitted)
Critical Low Flow [7Q2] (cfs)	0.1
Effluent Flow for Human Health (MGD)	12 (Permitted)
Harmonic Mean Flow (cfs)	0.2
Public Water Supply?	No

Human Health criteria apply for Fish Only.

The chronic aquatic life mixing zone is defined as 300 feet downstream and 100 feet upstream from the point of discharge. Chronic toxic criteria apply at the edge of the chronic aquatic life mixing zone.

Additional Notes:

The applicant is proposing a minor amendment to add an interim phase of 6.0 MGD.

OUTFALL LOCATION

Outfall Number	Latitude	Longitude
001	29.968166 N	97.833019 W

TCEQ Interoffice Memorandum

To: Municipal Permits Team
Wastewater Permitting Section

From: Michael B. Pfeil, Standards Implementation Team
Water Quality Assessment Section
Water Quality Division

Date: July 8, 2025

Subject: City of Kyle
Kyle WWTP
Permit No. WQ0011041002

WHOLE EFFLUENT TOXICITY (WET) TESTING (BIOMONITORING)

The following information applies to Outfall 001. We recommend freshwater chronic and 24-hour acute testing. For chronic testing, we recommend the water flea (*Ceriodaphnia dubia*) and the fathead minnow (*Pimephales promelas*) as test species and a testing frequency of once per quarter for both test species. We recommend a dilution series of 32%, 42%, 56%, 75%, and 100% with a critical dilution of 100%. The critical dilution is in accordance with the "Aquatic Life Criteria" section of the "Water Quality Based Effluent Limitations/Conditions" section.

For 24-hour acute testing, we recommend we recommend a water flea (*Ceriodaphnia dubia* or *Daphnia pulex*) and the fathead minnow as test species and a testing frequency of once per six months.

REASONABLE POTENTIAL (RP) DETERMINATION

Since this is a minor amendment without renewal, no RP determination was made.

TCEQ Interoffice Memorandum

To: Municipal Permits Team
Wastewater Permitting Section

From: Michelle Labrie, Standards Implementation Team
Water Quality Assessment Section
Water Quality Division

Date: July 7, 2025

Subject: City of Kyle (WWTP)
WQ0011041002
Minor amendment without renewal; Application received: 6/6/2025

The discharge route for the above referenced permit is directly to Plum Creek in Segment 1810 of the Guadalupe River Basin. The designated uses and dissolved oxygen criterion as stated in Appendix A of the Texas Surface Water Quality Standards (30 Texas Administrative Code §307.10) for Segment 1810 are primary contact recreation, high aquatic life use, aquifer protection and 5.0 mg/L dissolved oxygen. The use of aquifer protection applies to the contributing, recharge, and transition zones of the Edwards Aquifer for Segment 1810. However, this discharge facility is not located in any of the listed zones.

The Standards Implementation Team recommends a 0.5 mg/L TP limit be included for the proposed interim phase 6.0 MGD flow phase in addition to the previously incorporated limits.

The discharge from this permit action is not expected to have an effect on any federal endangered or threatened aquatic or aquatic dependent species or proposed species or their critical habitat. This determination is based on the United States Fish and Wildlife Service's (USFWS) biological opinion on the State of Texas authorization of the Texas Pollutant Discharge Elimination System (TPDES; September 14, 1998; October 21, 1998 update). To make this determination for TPDES permits, TCEQ and EPA only considered aquatic or aquatic dependent species occurring in watersheds of critical concern or high priority as listed in Appendix A of the USFWS biological opinion. The determination is subject to reevaluation due to subsequent updates or amendments to the biological opinion. The permit does not require EPA review with respect to the presence of endangered or threatened species.

TCEQ Interoffice Memorandum

To: Municipal Permits Team
Wastewater Permitting Section

Thru: Orlando M. Vasquez, Jr., P.E
Modeler, Water Quality Assessment Team
Water Quality Assessment Section

From: Mara Guerin
Modeler, Water Quality Assessment Team
Water Quality Assessment Section

Date: July 9, 2025

Subject: City of Kyle
Permit Amendment (WQ0011041002, TX0119466)
Discharge directly into Plum Creek (Segment No. 1810) of the Guadalupe River Basin

The referenced applicant is proposing to amend their permit authorizing the discharge of treated domestic wastewater directly into the watershed of Plum Creek (Segment No. 1810). The amendment request is to correct the Final Phase Peak 2-hr Flow and add an additional interim flow phase of 6.0 MGD. A dissolved oxygen analysis for the referenced discharge was conducted using an updated version of the calibrated QUAL-TX model documented in the *Waste Load Evaluation for Plum Creek in the Guadalupe River Basin (Segment 1810)* for the proposed Interim I flow phase of 4.5 MGD, Interim II flow phase of 6.0 MGD, Interim III flow phase of 9.0 MGD, and Final flow phase of 12.0 MGD. The facility is located in Hays County.

Based on model results, the following proposed limits are predicted to be **adequate** to maintain dissolved oxygen levels above the criteria stipulated by the Standards Implementation Team for Plum Creek (5.0 mg/L):

10 mg/L $CBOD_5$, 2 mg/L NH_3-N, and 5.0 mg/L DO for the **4.5 MGD** flow phase,
7 mg/L $CBOD_5$, 2 mg/L NH_3-N, and 5.0 mg/L DO for the **6.0 MGD** flow phase,
7 mg/L $CBOD_5$, 2 mg/L NH_3-N, and 5.0 mg/L DO for the **9.0 MGD** flow phase, and
5 mg/L $CBOD_5$, 2 mg/L NH_3-N, and 5.0 mg/L DO for the **12.0 MGD** flow phase.

Coefficients and kinetics used in the model are a combination of estimated, site-specific, and standardized default values. The results of this evaluation can be reexamined upon receipt of information that conflicts with the assumptions employed in this analysis.

Segment No. 1810 is not currently listed on the State's inventory of impaired and threatened waters (the **2024** Clean Water Act Section 303(d) list).

The effluent limits recommended above have been reviewed for consistency with the State of Texas Water Quality Management Plan (WQMP). The recommended limits are consistent with the approved WQMP.