

Buddy Garcia, *Chairman*  
Larry R. Soward, *Commissioner*  
Bryan W. Shaw, Ph.D., *Commissioner*  
Glenn Shankle, *Executive Director*



TEXAS  
COMMISSION  
ON ENVIRONMENTAL  
QUALITY

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY CHIEF CLERKS OFFICE

*Protecting Texas by Reducing and Preventing Pollution*

February 25, 2008

LaDonna Castañuela, Chief Clerk  
TCEQ Office of Chief Clerk MC-105  
P.O. Box 13087  
Austin, Texas 78711-3087

Re: Orangefield Water Supply Corporation  
TCEQ Permit No. WQ0014772001  
Docket No. 2008-0151-MWD  
Executive Director's Response to Request for Reconsideration

Dear Ms. Castañuela:

I am enclosing for filing with the Texas Commission on Environmental Quality (Commission) an original and 11 copies of the "*Executive Director's Response to Request for Reconsideration*" regarding Orangefield Water Supply Corporation, Permit No. WQ0014772001.

Please file stamp these documents and return one to Timothy J. Reidy, Staff Attorney, Environmental Law Division, MC 173. If you have any questions, please do not hesitate to contact me at (512) 239-0969.

Sincerely,

A handwritten signature in black ink that reads "Tim Reidy".

Timothy J. Reidy  
Staff Attorney  
Environmental Law Division

**TCEQ DOCKET NO. 2008-0151-MWD**

<b>APPLICATION BY</b>	§	<b>BEFORE THE</b>
<b>ORANGEFIELD WATER SUPPLY</b>	§	<b>TEXAS COMMISSION ON</b>
<b>CORPORATION</b>	§	<b>ENVIRONMENTAL QUALITY</b>

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**EXECUTIVE DIRECTOR'S RESPONSE TO REQUEST FOR RECONSIDERATION**

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**I. INTRODUCTION**

The Executive Director of the Texas Commission on Environmental Quality (Commission or TCEQ) files this Response to the Request for Reconsideration (RFR) filed by Ms. Bonnie B. Brauer (Requestor) on the application by Orangefield Water Supply Corporation (Applicant) for Permit No. WQ0014772001. The Executive Director respectfully recommends that the Request for Reconsideration be denied.

Attached for Commission consideration are the following:

- Attachment A – Technical Summary & Draft Permit
- Attachment B – Executive Director's Response to Public Comment
- Attachment C – Compliance History
- Attachment D – GIS Map

**II. BACKGROUND**

Description of Facility

The Applicant has applied to the TCEQ for a new permit to authorize the discharge of treated domestic wastewater at a daily average flow not to exceed 750,000 gallons per day. The treated effluent will be discharged directly to Cow Bayou Tidal in Segment No. 0511 of the Sabine River Basin. The designated uses for Segment No. 0511 are contact recreation and high aquatic life use. The facility will be located west of the City of Pinehurst and northwest of Bridge City, bounded on the north by Farm-to-Market Road 105, to the west by Farm-to-Market Road 408 (west boundary is approximately 276 feet from the center of Farm-to-Market Road 408) and to the south by Cormier Lane in Orange County, Texas.

Procedural Background

The application was received on January 4, 2007, and declared administratively complete on February 16, 2007. Notice of Receipt of Application and Intent to Obtain a Water Quality Permit (NORI) was published on March 3, 2007 in the *Orange Leader*. The Executive Director

completed the technical review of the application, and prepared a draft permit. Notice of Application and Preliminary Decision for a Water Quality Permit (NAPD) was published on August 8, 2007 in the *Orange Leader*, and the public comment period closed on September 7, 2007. The Executive Director's Response to Public Comment (RTC) was filed on November 20, 2007. The Executive Director's Final Decision Letter was mailed on November 29, 2007, and the period for timely filing a Request for Reconsideration or Contested Case Hearing Request ended on December 31, 2007. This application was administratively complete on or after September 1, 1999; therefore, this application is subject to the procedural requirements adopted pursuant to House Bill 801 (76<sup>th</sup> Legislature, 1999).

### **III. ANALYSIS OF REQUEST FOR RECONSIDERATION**

According to Section 55.209(f) of Title 30 of the Texas Administrative Code (TAC) responses to Requests for Reconsideration (RFR) should address the issues raised in the request. On July 20, 2007, the TCEQ received a letter from Ms. Bonnie Brauer commenting on the application, requesting a public meeting, and requesting that the TCEQ reconsider "the dumping of wastewater into Cow Bayou." Since Ms. Brauer was the sole commenter, the RTC was drafted in response to this letter. The issues raised are as follows:

#### **Issue 1:**

#### **Whether the proposed discharge will further pollute Cow Bayou (RTC Comment 1, Response 1).**

Segment No. 0511, Cow Bayou Tidal, is currently listed on the State's inventory of impaired and threatened waters. *See 2006 Clean Water Act 303(d) List*, p. 19. This listing is for elevated bacteria levels, low pH, and depressed dissolved oxygen. The proposed wastewater treatment facility will serve residential customers within the City of Orangefield. Currently, many existing on-site sewage facilities in the area are malfunctioning due to improper engineering, installation, or maintenance. Some of these facilities are located in areas where soils do not permit the sanitary absorption of septic effluent. These malfunctioning facilities are nonpoint sources of pollution. The proposed wastewater treatment facility seeks to lessen the impact of nonpoint source pollution to Cow Bayou Tidal by servicing residential customers, and allowing them to take these failing facilities offline.

The proposed facility is also required to have an appropriate mix of existing and new connections in order to prevent any increase in the loading of oxygen demanding substances to Cow Bayou Tidal. The Applicant must submit an annual report to the TCEQ listing the customer addresses connected to the collection system during the calendar year, the date of the connection, and whether the customer had an existing on-site treatment system, was previously connected to another treatment plant, or was newly constructed. Allowing an increase in the loading of oxygen-demanding substances to Cow Bayou would be a violation of the draft permit.

#### **Issue 2:**

**Whether accidental discharges from the proposed facility due to human error or technical failure may occur (RTC Comment 2, Response 2).**

A permittee is required to take steps to minimize the possibility of an accidental discharge. A permittee must maintain adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures by means of alternate power sources, standby generators, or retention of inadequately treated wastewater. Also, when the flow reaches 75 percent of the permitted daily average flow for three consecutive months, a permittee must initiate engineering and financial planning for expansion or upgrade of the domestic wastewater treatment or collection facilities. When the flow reaches 90 percent of the permitted daily average flow for three consecutive months, a permittee must obtain authorization from the TCEQ to begin constructing the necessary additional treatment or collection facilities. 30 TAC § 305.126(a). All of these permit provisions are designed to help prevent unauthorized discharges of raw sewage.

**Issue 3:**

**Whether wastewater from the proposed facility will contain harmful bacteria and viruses (RTC Comment 3, Response 3).**

30 TAC, Section 309.3(g) requires all domestic wastewater which discharges into water in the state to be disinfected in a manner conducive to the protection of both public health and aquatic life by requiring a minimum detention time for the wastewater in the chlorination chamber. The minimum chlorine residual is required to ensure an adequate level of chlorine for disinfection. If the proposed permit is issued, chlorination of the treated effluent will be monitored daily by grab sampling. These provisions are designed to control bacteria and protect human health.

**Issue 4:**

**Whether the proposed discharge will result in Ms. Brauer's well water becoming polluted with treated sewage (RTC Comment 4, Response 4).**

The proposed facility is located approximately 1-mile downstream of the address given by Ms. Brauer in her comment letter. Groundwater in the area generally flows towards the southeast, which is away from Ms. Brauer's property. Because Ms. Brauer's property is located upstream and upgradient of the proposed discharge, it is unlikely that her well will be impacted by the proposed discharge. Also, the geology underlying the proposed discharge route is mapped in the clay-rich portion of the Beaumont Formation. Recharge to the underlying aquifer is minimal where this geologic formation outcrops due to the clays acting as a barrier to the downward migration of water. Finally, the proposed draft permit includes effluent limitations and monitoring requirements developed in accordance with the Texas Surface Water Quality Standards to be protective of human health and the environment.

**Issue 5:**

Whether pollution from the proposed facility will substantially lower Ms. Brauer's property value (RTC Comment 5, Response 5).

The legislature has given the TCEQ the responsibility to protect water quality. However, neither the Texas Water Code nor the applicable TCEQ rules authorize the TCEQ to consider property values when reviewing a permit application. Therefore, the TCEQ lacks regulatory authority to consider property values when reviewing wastewater applications and preparing draft permits.

#### IV. EXECUTIVE DIRECTOR'S RECOMMENDATION

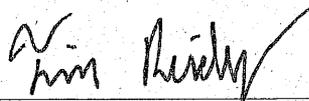
All of Ms. Brauer's concerns were addressed in the Executive Director's Response to Public Comment (RTC). The proposed permit complies with applicable statutes and regulations and no additional information was provided that would cause the Executive Director to alter his recommendation to issue the permit. Consequently, the Executive Director respectfully recommends denial of the Request for Reconsideration.

Respectfully submitted,

Texas Commission on Environmental Quality

Glenn Shankle  
Executive Director

Robert Martinez, Director  
Environmental Law Division

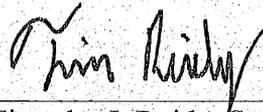
By 

Timothy J. Reidy, Staff Attorney  
Environmental Law Division  
State Bar No. 24058069  
P.O. Box 13087, MC 173  
Austin, Texas 78711-3087  
(512) 239-0969

REPRESENTING THE EXECUTIVE  
DIRECTOR OF THE TEXAS COMMISSION  
ON ENVIRONMENTAL QUALITY

CERTIFICATE OF SERVICE

I certify that on February 25, 2008, an original and eleven copies of the "Executive Director's Response to Request for Reconsideration" of Permit No. WQ0014772001 were filed with the Texas Commission on Environmental Quality's Office of the Chief Clerk, and a complete copy was mailed to all persons on the attached mailing list.



---

Timothy J. Reidy, Staff Attorney  
Environmental Law Division  
State Bar No. 24058069

MAILING LIST  
For  
ORANGEFIELD WATER SUPPLY CORPORATION  
TCEQ DOCKET NO. 2008-0151-MWD; PERMIT NO. WQ0014772001

FOR THE APPLICANT:

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FOR THE CHIEF CLERK:

LaDonna Castañuela  
Texas Commission on Environmental Quality  
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REQUESTOR:

Bonne Brauer  
7608 Del Monte Dr.  
Houston, Texas 77063-1909

# Attachment A – Technical Summary & Draft Permit

STATEMENT OF BASIS/TECHNICAL SUMMARY  
AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY  
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CHIEF CLERKS OFFICE

DESCRIPTION OF APPLICATION

Applicant: Orangefield Water Supply Corporation;  
Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0014772001,  
(TX0129313)

Regulated Activity: Domestic Wastewater Permit

Type of Application: New Permit

Request: New Permit

Authority: Federal Clean Water Act, Section 402; Texas Water Code Section 26.027; 30 TAC Chapters 305, 307, 309, 312, 319, 30; Commission policies; and EPA guidelines.

EXECUTIVE DIRECTOR RECOMMENDATION

The executive director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The proposed permit includes an expiration date of March 1, 2011 according to 30 TAC Section 305.71, Basin Permitting.

REASON FOR PROJECT PROPOSED

The applicant has applied to the Texas Commission on Environmental Quality (TCEQ) for a new permit to authorize the discharge of treated domestic wastewater at a daily average flow not to exceed 0.75 million gallons per day. The proposed wastewater treatment facility will serve residential buildings within the Orangefield City limits.

PROJECT DESCRIPTION AND LOCATION

The Orangefield Water Supply Corporation Wastewater Treatment Facility will be an activated sludge process plant operated in the complete mix mode. Treatment units will include a bar screen, two aeration basins, two final clarifiers, three sludge digesters, and two chlorine contact chambers. The facility has not been constructed.

Sludge generated from the treatment facility will be hauled by a registered transporter and disposed of at a TCEQ authorized land application site or co-disposal landfill. The draft permit authorizes the disposal of sludge at a TCEQ authorized land application site or co-disposal landfill.

The plant site will be located west of the City of Pinehurst and northwest of Bridge City, bounded on the north by Farm-to-Market Road 105, to the west by Farm-to-Market Road 408 (west boundary is approximately 276 feet from the center of Farm-to-Market Road 408) and to the south by Cormier Lane in Orange County, Texas. The treated effluent will be discharged directly to Cow Bayou Tidal in Segment No. 0511 of the Sabine River Basin. The designated uses for Segment No. 0511 are contact recreation and high aquatic life use. The effluent limitations in the draft permit will maintain and protect the existing instream uses. In accordance with §307.5 and the TCEQ implementation procedures (January 2003) for the Texas Surface Water Quality Standards, an antidegradation review of the receiving waters was performed. A Tier 1 antidegradation review has preliminarily determined that existing water quality uses will not be impaired by this permit action. Numerical and narrative criteria to protect existing uses

of the receiving waters was performed. A Tier 1 antidegradation review has preliminarily determined that existing water quality uses will not be impaired by this permit action. Numerical and narrative criteria to protect existing uses will be maintained. A Tier 2 review has preliminarily determined that no significant degradation of water quality is expected in Cow Bayou Tidal, which has been identified as having high aquatic life uses. Existing uses will be maintained and protected. The preliminary determination can be reexamined and may be modified if new information is received.

Effluent limitations for the conventional effluent parameters (i.e., Biochemical Oxygen Demand or 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 Texas Water Quality Standards and the water quality management plan.

The effluent limits recommended have been reviewed for consistency with the State of Texas Water Quality Management Plan (WQMP). The existing limits are contained in the approved WQMP. A Waste Load Evaluation has not been prepared for Segment 0511.

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 0511, Cow Bayou Tidal, is currently listed on the State's inventory of impaired and threatened waters (the 2004 Clean Water Act Section 303(d) list). The listing is specifically for elevated bacteria levels, low pH, and depressed dissolved oxygen (DO). The pH impairment is confined to the upper four miles of the segment. The bacteria impairment is confined to the upper four miles and lower five miles of the segment. The DO impairment affects the entire segment.

The TMDL for these impairments titled "Seventeen Total Maximum Daily Loads for Bacteria, Dissolved Oxygen, and pH in Adams Bayou, Cow Bayou and Their Tributaries" was adopted by the TCEQ on June 13, 2007. Based on the adopted TMDL, the section of Cow Bayou Tidal that is proposed to receive this new discharge is currently receiving its maximum daily loading of BOD<sub>5</sub> and NH<sub>3</sub>-N. The adopted TMDL has not yet been approved by EPA and the implementation plan still needs to be developed.

The applicant has commitments for about 1,400 connections from existing, on-site treatment systems. The remaining capacity (approximately 1,100 connections) may be used to connect additional existing on-site treatment systems, existing homes, businesses, or schools whose wastewater is currently being treated at other facilities, or new construction. The facility will need to have an appropriate mix of existing and new connections to preclude any increase in the loading of oxygen-demanding substances to Cow Bayou. Therefore, the draft permit includes a requirement for the applicant to ensure that connections include an appropriate mix so that the loading of oxygen-demanding substances to Cow Bayou does not increase.

The draft permit includes disinfection requirements for the treated effluent and therefore, the discharge should not contribute to the impairment of the segment due to elevated bacteria levels. The draft permit requires that the effluent shall contain a chlorine residual of at least 1.0 mg/l and shall not exceed a chlorine residual of 4.0 mg/l after a detention time of at least 20 minutes based on peak flow.

In addition, the draft permit includes effluent limitations and monitoring requirements for pH and therefore, the discharge should not contribute to the impairment of the segment due to low pH. Specifically, the draft permit requires the pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored twice per month by grab sample.

#### SUMMARY OF EFFLUENT DATA

N/A - New Permit

#### PROPOSED PERMIT CONDITIONS

The draft permit authorizes a discharge of treated domestic wastewater at a volume not to exceed a daily average flow of 0.75 million gallons per day.

The effluent limitations in the draft permit, based on a 30-day average, are 10 mg/l CBOD<sub>5</sub>, 15 mg/l TSS, 2 mg/l NH<sub>3</sub>-N, and 4.0 mg/l minimum dissolved oxygen (DO). The effluent shall contain a chlorine residual of at least 1.0 mg/l and shall not exceed a chlorine residual of 4.0 mg/l after a detention time of at least 20 minutes based on peak flow.

The draft permit includes a requirement for the permittee to obtain legal restrictions prohibiting residential structures within the part of the buffer zone not owned by the permittee according to 30 TAC Section 309.13(e)(3).

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 and disposed of at a TCEQ authorized land application site or co-disposal landfill. The draft permit authorizes the disposal of sludge at a TCEQ authorized land application site or co-disposal landfill.

#### SUMMARY OF CHANGES FROM APPLICATION

The applicant requested a minimum Dissolved Oxygen (DO) limit of 2.0 mg/l. However, based on recommendations from TCEQ Water Quality Assessment staff, the minimum DO limit included in the draft permit is 4 mg/l.

#### SUMMARY OF CHANGES FROM EXISTING PERMIT

N/A - New Permit.

#### BASIS FOR PROPOSED DRAFT PERMIT

The following items were considered in developing the proposed permit draft:

1. Application received January 4, 2007 and additional information received February 12, 2007.
2. The effluent limitations and/or conditions in the draft permit comply with the Texas Surface Water Quality Standards, 30 TAC Sections 307.1 - 307.10.

3. 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: Domestic Wastewater Effluent Limitations.
4. Interoffice memoranda from the Water Quality Assessment Section of the TCEQ Water Quality Division.
5. Consistency with the Coastal Management Plan: The Executive Director has reviewed this action for consistency with the goals and policies of the Texas Coastal Management Program (CMP) in accordance with the regulations of the Coastal Coordination Council (CCC) and has determined that the action is consistent with the applicable CMP goals and policies.
6. "Procedures to Implement the Texas Surface Water Quality Standards," Texas Commission on Environmental Quality, January 2003.
7. Texas 2004 Clean Water Act Section 303(d) List, Texas Commission on Environmental Quality, May 13, 2005; approved by USEPA on May 8, 2006.
8. "TNRCC Guidance Document for Establishing Monitoring Frequencies for Domestic and Industrial Wastewater Discharge Permits," Document No. 98-001.000-OWR-WQ, May 1998.

#### PROCEDURES FOR FINAL DECISION

When an application is declared administratively complete, the Chief Clerk sends a letter to the applicant advising the applicant to publish the Notice of Receipt of Application and Intent to Obtain Permit in the newspaper. In addition, the Chief Clerk instructs the applicant to place a copy of the application in a public place for review and copying in the county where the facility is or will be located. This application will be in a public place throughout the comment period. The Chief Clerk also mails this notice to any interested persons and, if required, to landowners identified in the permit application. This notice informs the public about the application, and provides that an interested person may file comments on the application or request a contested case hearing or a public meeting.

Once a draft permit is completed, it is sent, along with the Executive Director's preliminary decision, as contained in the technical summary or fact sheet, to the Chief Clerk. At that time, Notice of Application and Preliminary Decision will be mailed to the same people and published in the same newspaper as the prior notice. This notice sets a deadline for making public comments. The applicant must place a copy of the Executive Director's preliminary decision and draft permit in the public place with the application. This notice sets a deadline for public comment.

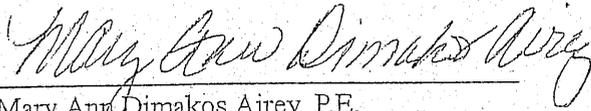
Any interested person may request a public meeting on the application until the deadline for filing public comments. A public meeting is intended for the taking of public comment, and is not a contested case proceeding.

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, requested a contested case hearing, or requested to be on the mailing list. This notice provides that if a person is not satisfied with the Executive Director's response and decision, they can request a contested case hearing or file a request to reconsider the Executive Director's decision within 30 days after the notice is mailed.

The Executive Director will issue the permit unless a written hearing request or request for reconsideration is filed within 30 days after the Executive Director's Response to Comments and Final Decision is mailed. If a hearing request or request for reconsideration is filed, the Executive Director will not issue the permit and will forward the application and request to the TCEQ Commissioners for their consideration at a scheduled Commission meeting. If a contested case hearing is held, it will be a legal proceeding similar to a civil trial in state district court.

If the Executive Director calls a public meeting or the Commission grants a contested case hearing as described above, the Commission will give notice of the date, time, and place of the meeting or hearing. If a hearing request or request for reconsideration is made, the Commission will consider all public comments in making its decision and shall either adopt the Executive Director's response to public comments or prepare its own response.

For additional information about this application contact Mary Ann Dimakos Airey, P.E. at 512-239-4521.



Mary Ann Dimakos Airey, P.E.  
Municipal Permits Team  
Wastewater Permitting Section (MC 148)

7-23-2007

Date



TPDES PERMIT NO. WQ0014772001  
[For TCEQ Office Use Only:  
EPA ID No. TX0129313]

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

PERMIT TO DISCHARGE WASTES

under provisions of  
Section 402 of the Clean Water Act  
and Chapter 26 of the Texas Water Code

Orangefield Water Supply Corporation

whose mailing address is

P.O. Box 398  
Orangefield, Texas 77639

is authorized to treat and discharge wastes from the Orangefield Water Supply Corporation Wastewater Treatment facility, SIC Code 4952

located west of the City of Pinehurst and northwest of Bridge City, bounded on the north by Farm-to-Market Road 105, to the west by Farm-to-Market Road 408 (west boundary is approximately 276 feet from the center of Farm-to-Market Road 408) and to the south by Cormier Lane in Orange County, Texas

directly to Cow Bayou Tidal in Segment No. 0511 of the Sabine River Basin

only according with 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, **March 1, 2011.**

ISSUED DATE:

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For the Commission

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Outfall Number 001

1. During the period beginning upon the date of issuance and lasting through the date of expiration, the permittee is authorized to discharge subject to the following effluent limitations:

The daily average flow of effluent shall not exceed 0.75 million gallons per day (MGD); nor shall the average discharge during any two-hour period (2-hour peak) exceed 1,563 gallons per minute (gpm).

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Minimum Self-Monitoring Requirements</u>	
	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)	10 (63)	15	25	35	One/week	Composite
Total Suspended Solids	15 (94)	25	40	60	One/week	Composite
Ammonia Nitrogen	2 (13)	5	10	15	One/week	Composite

2. The effluent shall contain a chlorine residual of at least 1.0 mg/l and shall not exceed a chlorine residual of 4.0 mg/l after a detention time of at least 20 minutes (based on peak flow), and shall be monitored daily by grab sample. 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 twice per month 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 4.0 mg/l and shall be monitored once per week by grab sample.

**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 §§ 5.103 and 5.105, and the Texas Health and Safety Code §§ 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 Section 26.001 of the Texas Water Code 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 a 1 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. Fecal coliform bacteria concentration - the number of colonies of fecal coliform bacteria per 100 milliliters effluent. The daily average fecal coliform 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  $n$ th 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 fecal coliform bacteria equaling zero, a substituted value of one shall be made for input into either computation method. The 7-day average for fecal coliform 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 which have not been classified as hazardous waste separated from wastewater by unit processes .
6. 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, a monthly effluent report 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 reported on an approved self-report form, that is 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, the Texas Water Code, Chapters 26, 27, and 28, and Texas Health and Safety Code, Chapter 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

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.

### 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 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. 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. 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 which 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 Publicly Owned Treatment Works (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 section 301 or 306 of the CWA 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 which 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 Texas Water Code Section 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 Texas Water Code §§ 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 Clean Water Act, §§ 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 Texas Water Code Chapters 26, 27, and 28, and Texas Health and Safety Code Chapter 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 Texas Water Code Section 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 which are subject neither to effluent limitations in the permit, nor to notification requirements in Monitoring and Reporting Requirements No. 9;
  - 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 Texas Water Code § 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 Section 307(a) of the Clean Water Act 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 Section 307(a) of the Clean Water Act 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 which 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 Chapter 11 of the Texas Water Code.

#### 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 and the permit number(s);
  - ii. the bankruptcy court in which the petition for bankruptcy was filed; and
  - iii. 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 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 Land Application 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 Texas Water Code § 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 which 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 percent 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 percent 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 percent 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 judgement 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 149) 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 percent, unless otherwise authorized by this permit.
11. Facilities which generate industrial solid waste as defined in 30 TAC § 335.1 shall comply with these provisions:
- 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.
  - 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.
  - The permittee shall provide written notification, pursuant to the requirements of 30 TAC § 335.8(b)(1), to the Environmental Cleanup 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.
  - 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 Remediation 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.
  - 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.
  - 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 Chapter 335 and must include the following, as it pertains to wastewater treatment and discharge:
    - Volume of waste and date(s) generated from treatment process;
    - Volume of waste disposed of on-site or shipped off-site;
    - Date(s) of disposal;
    - Identity of hauler or transporter;
    - Location of disposal site; and
    - 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 Chapter 335 do not apply, sludge and solid wastes, including tank cleaning and contaminated solids for disposal, shall be disposed of in accordance with Chapter 361 of the Texas Health and Safety Code.

## SLUDGE PROVISIONS

The permittee is authorized to dispose of sludge only at a Texas Commission on Environmental Quality (TCEQ) authorized land application site or co-disposal landfill. **The disposal of sludge 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 sludge. This provision does not authorize land application of Class A Sludge. This provision does not authorize the permittee to land apply sludge on property owned, leased or under the direct control of the permittee.**

### SECTION I. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE LAND APPLICATION

#### A. General Requirements

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

#### B. Testing Requirements

1. Sewage sludge shall be tested once during the term of this permit 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, which receives the prior approval of the TCEQ for the contaminants listed in Table 1 of 40 CFR Section 261.24. Sewage sludge 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 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 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 Remediation Support Division and the Regional Director (MC Region 10) 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 Remediation 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 10) and the Water Quality Compliance Monitoring Team (MC 224) of the Enforcement Division by September 1 of each year.

2. Sewage sludge shall not be applied to the land if the concentration of the pollutants exceed the pollutant concentration criteria in Table 1. The frequency of testing for pollutants in Table 1 is found in Section I.C.

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 shall be treated by one of the following methods to ensure that the sludge meets either the Class A or Class B pathogen requirements.

- a. Six alternatives are available to demonstrate compliance with Class A sewage sludge. The first 4 options require either the density of fecal coliform in the sewage sludge be less than 1000 Most Probable Number (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. Below are the additional requirements necessary to meet the definition of a Class A sludge.

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 Section 312.82(a)(2)(A) for specific information.

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 degrees 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 percent.

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 Section 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 Section 312.82(a)(2)(C)(iv-vi) for specific information.

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.

Alternative 5 (PFRP) - Sewage sludge that is used or disposed of shall 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.

Alternative 6 (PFRP Equivalent) - Sewage sludge that is used or disposed of shall 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. Three alternatives are available to demonstrate compliance with Class B criteria for sewage sludge.

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, the following site restrictions must be met if Class B sludge is land applied:

- i. Food crops with harvested parts that touch the sewage sludge/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of sewage sludge.
- ii. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of sewage sludge when the sewage sludge remains 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 sewage sludge when the sewage sludge remains 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 sewage sludge.
- v. Animals shall not be allowed to graze on the land for 30 days after application of sewage sludge.
- vi. Turf grown on land where sewage sludge is applied shall not be harvested for 1 year after application of the sewage sludge 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 sewage sludge.
- viii. Public access to land with a low potential for public exposure shall be restricted for 30 days after application of sewage sludge.
- ix. Land application of sludge shall be in accordance with the buffer zone requirements found in 30 TAC Section 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 percent.

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 degrees Celsius. Volatile solids must be reduced by less than 17 percent 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 a percent solids of two percent or less aerobically in the laboratory in a bench-scale unit for 30 additional days at 20 degrees Celsius. Volatile solids must be reduced by less than 15 percent 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 degrees 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 degrees Celsius and the average temperature of the sewage sludge shall be higher than 45 degrees 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 percent 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 percent 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. Sewage sludge shall be injected below the surface of the land.
  - ii. No significant amount of the sewage sludge shall be present on the land surface within one hour after the sewage sludge is injected.
  - iii. When sewage sludge that is injected below the surface of the land is Class A with respect to pathogens, the sewage sludge shall be injected below the land surface within eight hours after being discharged from the pathogen treatment process.
- Alternative 10 -
  - i. Sewage sludge 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 sewage sludge that is incorporated into the soil is Class A with respect to pathogens, the sewage sludge 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 - once during the term of this permit
- PCBs - once during the term of this permit

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

<u>Amount of sewage sludge (*) metric tons per 365-day period</u>	<u>Monitoring Frequency</u>
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 sewage sludge applied to the land (dry weight basis).

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

**SECTION II. REQUIREMENTS SPECIFIC TO BULK SEWAGE SLUDGE FOR APPLICATION TO THE LAND MEETING CLASS A 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 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

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

Table 3

<u>Pollutant</u>	<u>Monthly Average Concentration (milligrams per kilogram)*</u>
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 or Class B pathogen reduction requirements as defined above in Section I.B.3.

**C. Management Practices**

1. Bulk sewage sludge 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 sewage sludge not meeting Class A requirements shall be land applied in a manner which complies with the Management Requirements in accordance with 30 TAC Section 312.44.
3. Bulk sewage sludge 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 sewage sludge sold or given away. The information sheet shall contain the following information:
  - a. The name and address of the person who prepared the sewage sludge that is sold or given away in a bag or other container for application to the land.
  - b. A statement that application of the sewage sludge 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 sewage sludge application rate for the sewage sludge 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 sewage sludge is 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 sewage sludge is 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 sewage sludge 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 sewage sludge.
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 sewage sludge disposal practice.

#### E. Record keeping Requirements

The sludge 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 sewage sludge 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 Section 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 B sludges, 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 Section 312.82(a) or (b) and the vector attraction reduction requirements in 30 TAC Section 312.83(b) have been met for each site on which bulk sewage sludge is 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 sewage sludge or a sewage sludge 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 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 Section 312.47 for persons who land apply.

1. 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 Section 312.47(a)(4)(A)(ii) or 30 TAC Section 312.47(a)(5)(A)(ii), as applicable, and to the permittee's specific sludge treatment activities.
2. The location, by street address, and specific latitude and longitude, of each site on which sludge is applied,
3. The number of acres in each site on which bulk sludge is applied.
4. The date and time sludge is applied to each site.
5. The cumulative amount of each pollutant in pounds/acre listed in Table 2 applied to each site.
6. The total amount of sludge 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 report annually to the TCEQ Regional Office (MC Region 10) and Water Quality Compliance Monitoring Team (MC 224) of the Enforcement Division, by September 1 of each year the following information:

1. Results of tests performed for pollutants found in either Table 2 or 3 as appropriate for the permittee's land application practices.
2. The frequency of monitoring listed in Section I.C. which applies to the permittee.
3. Toxicity Characteristic Leaching Procedure (TCLP) results.
4. Identity of hauler(s) and TCEQ transporter number.
5. PCB concentration in sludge in mg/kg.
6. Date(s) of disposal.
7. Owner of disposal site(s).
8. Texas Commission on Environmental Quality registration number, if applicable.
9. Amount of sludge disposal dry weight (lbs/acre) at each disposal site.
10. 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.
11. Level of pathogen reduction achieved (Class A or Class B).
12. Alternative used as listed in Section I.B.3.(a. or b.). Alternatives describe how the pathogen reduction requirements are met. If Class B sludge, include information on how site restrictions were met.
13. Vector attraction reduction alternative used as listed in Section I.B.4.

14. Annual sludge production in dry tons/year.
15. Amount of sludge land applied in dry tons/year.
16. The certification statement listed in either 30 TAC Section 312.47(a)(4)(A)(ii) or 30 TAC Section 312.47(a)(5)(A)(ii) as applicable to the permittee's sludge treatment activities, shall be attached to the annual reporting form.
17. 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 sewage sludge is applied.
  - c. The date and time bulk sewage sludge is applied to each site.
  - d. The cumulative amount of each pollutant (i.e., pounds/acre) listed in Table 2 in the bulk sewage sludge applied to each site.
  - e. The amount of sewage sludge (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 DISPOSED IN A MUNICIPAL SOLID WASTE LANDFILL**

- A. The permittee shall handle and dispose of sewage sludge in accordance with 30 TAC Chapter 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 Chapter 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.
- B. If the permittee generates sewage sludge and supplies that sewage sludge 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 disposal practice.
- D. Sewage sludge shall be tested once during the term of this permit 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 Section 261.24. Sewage sludge 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 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 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 Remediation Support Division and the Regional Director (MC Region 10) 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 Remediation 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 10) and the Water Quality Compliance Monitoring Team (MC 224) of the Enforcement Division by September 1 of each year.

- E. Sewage sludge 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 report annually to the TCEQ Regional Office (MC Region 10) and Water Quality Compliance Monitoring Team (MC 224) of the Enforcement Division by September 1 of each year the following information:

1. Toxicity Characteristic Leaching Procedure (TCLP) results.
2. Annual sludge production in dry tons/year.
3. Amount of sludge disposed in a municipal solid waste landfill in dry tons/year.
4. Amount of sludge transported interstate in dry tons/year.
5. A certification that the sewage sludge meets the requirements of 30 TAC Chapter 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.
6. Identity of hauler(s) and transporter registration number.
7. Owner of disposal site(s).
8. Location of disposal site(s).
9. 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.

**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 C facility must be operated by a chief operator or an operator holding a Category C license or higher. 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 which 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 Executive Director has reviewed this action for consistency with the goals and policies of the Texas Coastal Management Program (CMP) in accordance with the regulations of the Coastal Coordination Council (CCC) and has determined that the action is consistent with the applicable CMP goals and policies.
3. The permittee is hereby placed on notice that this permit may be reviewed by the TCEQ after the completion of any new intensive water quality survey on Segment No. 0511 of the Sabine River Basin and any subsequent updating of the water quality model for Segment No. 0511, in order to determine if the limitations and conditions contained herein are consistent with any such revised model. The permit may be amended, pursuant to 30 TAC Section 305.62, as a result of such review. The permittee is also hereby placed on notice that effluent limits may be made more stringent at renewal based on, for example, any change to modeling protocol approved in the TCEQ Continuing Planning Process.
4. Prior to construction of the wastewater treatment facility, the permittee shall submit sufficient evidence of legal restrictions prohibiting residential structures within the part of the buffer zone not owned by the permittee according to 30 TAC Section 309.13(e)(3). The evidence of legal restrictions shall be submitted to the executive director in care of the TCEQ Wastewater Permitting Section (MC 148). The permittee shall comply with the requirements of 30 TAC Section 309.13(a) through (d). (See Attachment A.)
5. Prior to construction of the treatment facilities, the permittee shall submit to the TCEQ Wastewater Permitting Section (MC 148) a summary submittal letter in accordance with the requirements in 30 TAC Section 317.1. 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 317, Design Criteria for Sewerage Systems. The permittee shall clearly show how the treatment system will meet the final permitted effluent limitations required on Page 2 of the permit.
6. The permittee shall notify the TCEQ Regional Office (MC Region 10) and the Applications Review and Processing Team (MC 148) of the Water Quality Division in writing at least forty-five (45) days prior to the completion of the new facilities.
7. The permittee shall provide facilities for the protection of its wastewater treatment facilities from a 100-year flood.

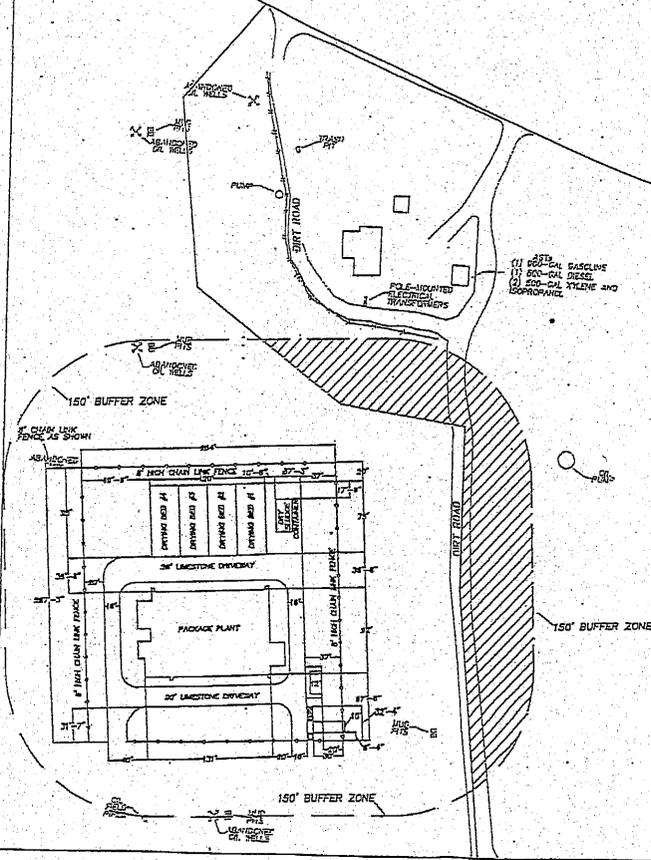
8. The permittee shall ensure that connections to the wastewater treatment plant consist of an appropriate mix of existing on-site treatment systems, existing homes, businesses, or schools that are currently connected to other treatment plants, and new construction such that the loading of oxygen-demanding substances to Cow Bayou is not increased. Such an increase would violate the provisions of the TMDL for dissolved oxygen in Cow Bayou that was adopted by the TCEQ on June 13, 2007.

The permittee shall provide to the TCEQ a list of customer addresses that have been connected to the collection system during the calendar year, the date of connection, and whether the customer had an existing on-site treatment system, was previously connected to another treatment plant, or was new construction. The list shall be provided to the TCEQ TMDL Section (MC203) of the Chief Engineers Office, the TCEQ Regional Office (MC Region 10) and Water Quality Compliance Monitoring Team (MC 224) of the Enforcement Division by February 1 of each year.

F. M. 408

F. M. 105

COUNTY ROAD

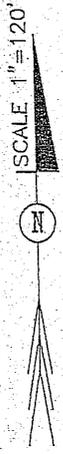


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**ORANGFIELD WATER SUPPLY CORPORATION**  
**WASTEWATER TREATMENT PLANT**  
**PRELIMINARY BUFFER ZONE SITE MAP**



Attachment A  
 TPDES Permit No. WQ0014772001  
 Orangfield Water Supply Corporation

Attachment B – Executive Director’s  
Response to Public Comment

TCEQ PROPOSED NEW PERMIT NO. WQ0014772001

2007 NOV 20 PM 3:03

APPLICATION BY	§	BEFORE THE
ORANGEFIELD WATER SUPPLY	§	TEXAS COMMISSION ON
CORPORATION	§	ENVIRONMENTAL QUALITY

CHIEF CLERKS OFFICE

**EXECUTIVE DIRECTOR'S RESPONSE TO PUBLIC COMMENT**

The Executive Director of the Texas Commission on Environmental Quality (the Commission or TCEQ) files this Response to Public Comment (Response) on the Orangefield Water Supply Corporation application and Executive Director's Preliminary Decision. As required by 30 Texas Administrative Code (TAC) Section 55.156, before a permit is issued, the Executive Director prepares a response to all timely, relevant and material, or significant comments. The Office of the Chief Clerk received a timely comment letter from the following person: Bonnie Brauer. This response addresses all such timely public comments received, whether or not withdrawn. If you need more information about this permit application or the wastewater permitting process, please call the TCEQ Office of Public Assistance at 1-800-687-4040. General information about the TCEQ can be found at our website at [www.tceq.state.tx.us](http://www.tceq.state.tx.us).

**BACKGROUND**

Description of Facility

Orangefield Water Supply Corporation has applied to the TCEQ for a new permit to authorize the discharge of treated domestic wastewater at a daily average flow not to exceed 750,000 gallons per day. The treated effluent will be discharged directly to Cow Bayou Tidal in Segment No. 0511 of the Sabine River Basin. The designated uses for Segment No. 0511 are contact recreation and high aquatic life use. The facility will be located west of the City of Pinehurst and northwest of Bridge City, bounded on the north by Farm-to-Market Road 105, to the west by Farm-to-Market Road 408 (west boundary is approximately 276 feet from the center of Farm-to-Market Road 408) and to the south by Cormier Lane in Orange County, Texas.

Procedural Background

The application was received on January 4, 2007, and declared administratively complete on February 16, 2007. Notice of Receipt of Application and Intent to Obtain a Water Quality Permit (NORI) was published on March 3, 2007 in the *Orange Leader*. The TCEQ Executive Director completed the technical review of the application, and prepared a draft permit. Notice of Application and Preliminary Decision for a Water Quality Permit (NAPD) was published on August 8, 2007 in the *Orange Leader*, and the

public comment period closed on September 7, 2007. This application was administratively complete on or after September 1, 1999; therefore, this application is subject to the procedural requirements adopted pursuant to House Bill 801 (76<sup>th</sup> Legislature, 1999).

## COMMENTS AND RESPONSES

### COMMENT 1

In her comments, Ms. Brauer expressed concern that the proposed discharge will further pollute Cow Bayou.

### RESPONSE 1

Segment No. 0511, Cow Bayou Tidal, is currently listed on the State's inventory of impaired and threatened waters. *See 2004 Clean Water Act 303(d) List*, p. 10 (May 13, 2005). This listing is specifically for elevated bacteria levels, low pH, and depressed dissolved oxygen. The pH impairment is confined to the upper four miles of the segment. The bacteria impairment is confined to the upper four miles and lower five miles of the segment. The dissolved oxygen impairment affects the entire segment.

The proposed wastewater treatment facility will serve residential customers located within the city limits of the City of Orangefield. The Applicant has commitments for about 1,400 connections from existing on-site sewage facilities, many of which are failing and contributing to the impairment of Cow Bayou Tidal. On-site sewage facilities with malfunctioning septic tanks that have been improperly engineered or installed, poorly maintained, or are located where soils do not permit the sanitary absorption of septic effluent. These facilities can serve as nonpoint sources of pollutants, and connection to the proposed wastewater treatment plant will remove these sources from Cow Bayou Tidal.

The remaining capacity (approximately 1,100 connections) may be used to connect existing homes, businesses, or schools whose wastewater is currently being treated at other facilities, or new construction. The facility will need to have an appropriate mix of existing and new connections to prevent any increase in the loading of oxygen-demanding substances to Cow Bayou Tidal. The proposed draft permit requires the Applicant to do just that.

"The permittee shall ensure that connections to the wastewater treatment plant consist of an appropriate mix of exiting on-site treatment systems, existing homes, businesses, or schools that are currently connected to other treatment plants, and new construction such that the loading of oxygen-demanding substances to Cow Bayou is not increased. Such an increase would violate the provisions of the TMDL for dissolved oxygen in Cow Bayou that was adopted by the TCEQ on June 13, 2007." *See Draft TPDES Permit No. 0014772001*, p. 24.

The TCEQ would monitor the mix of connections by mandating that the Applicant submit an annual report listing the customer addresses connected to the collection system during the calendar year, the date of connection, and whether the customer had an existing on-site treatment system, was previously connected to another treatment plant, or was newly constructed.

#### COMMENT 2

Ms. Brauer comments that she is concerned about accidental discharges from the proposed facility resulting from human error or technical failure.

#### RESPONSE 2

The Applicant is required to take certain steps to minimize the possibility of an accidental discharge of untreated wastewater. For example, the Applicant must maintain adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures by means of alternative power sources, standby generators, or retention of inadequately treated wastewater. See Draft TPDES Permit No. 0014772001, p. 10. Also, please note that the proposed draft permit requires that when the flow measurements reach 75 percent of the permitted daily average flow for three consecutive months, the Applicant must initiate engineering and financial planning for expansion and/or upgrading the domestic wastewater treatment or collection facilities. Id. When the flow measurements reach 90 percent of the permitted daily average flow for three consecutive months, the Applicant must obtain authorization from the TCEQ to begin construction of necessary additional wastewater treatment or collection facilities. Id. All of these permit provisions are designed to prevent unauthorized discharges of raw sewage. If an unauthorized discharge does occur, the Applicant is required to report it to the Commission within 24 hours. See Draft TPDES Permit No. 0014772001, p. 5. Finally, the Applicant is subject to potential enforcement action for failure to comply with TCEQ rules or permit requirements.

#### COMMENT 3

Ms. Brauer states that she is concerned about the presence of bacteria and viruses in the wastewater.

#### RESPONSE 3

The proposed draft permit requires the treated effluent to be disinfected prior to discharge. Chlorination of the treated effluent is required to provide adequate disinfection and reduce pathogenic organisms. The proposed draft permit requires that the effluent contain a chlorine residual of at least 1.0 milligram per liter (mg/l) and shall not exceed a chlorine residual of 4.0 mg/l after a detention time of at least 20 minutes based on peak flow. See TPDES Permit No. 0014772001, p. 2. Chlorination of the treated effluent is monitored daily by grab sampling. Id. These permit provisions are intended to control bacteria to protect human health.

#### COMMENT 4

Ms. Brauer comments that she is concerned that her well water may become polluted with treated sewage.

#### RESPONSE 4

The proposed facility is located approximately 1-mile downstream of the address given by Ms. Brauer in her comment letter. Groundwater in the area is produced from the Chicot aquifer. Groundwater gradient for the Chicot aquifer tends to follow the regional topographic gradient. In this area, groundwater generally flows towards the southeast, which is away from Ms. Brauer's property. Because Ms. Brauer's property is located upstream and upgradient of the proposed discharge, it is unlikely that her well will be impacted from the proposed facility.

Additionally, the geology underlying the proposed discharge route is mapped in the clay-rich portion of the Beaumont Formation. Recharge to the underlying aquifer is minimal where this geologic formation outcrops due to the presence of the clays acting like a barrier to downward migration of water. Recharge to the Chicot aquifer occurs more readily where the sandy portion of the Beaumont Formation is exposed at the ground surface. The sandy portion of the Beaumont Formation is located generally to the north of the proposed discharge route.

Finally, the proposed draft permit includes effluent limitations and monitoring requirements for 5-day Biochemical Oxygen Demand (BOD<sub>5</sub>), Total Suspended Solids (TSS), chlorine residual, and pH to ensure that the proposed wastewater treatment facility meets water quality standards for the protection of surface water quality, groundwater, and human health. The Executive Director has determined that the proposed draft permit complies with all applicable TCEQ rules, and is protective of the environment, water quality, and human health.

#### COMMENT 5

In her comments, Ms. Brauer states that she is concerned that pollution from the proposed facility will substantially lower her property value.

#### RESPONSE 5

The legislature has given the TCEQ the responsibility to protect water quality. However, neither the Texas Water Code, nor the applicable TCEQ rules authorize the TCEQ to consider property values when reviewing a permit application. Therefore, the TCEQ lacks regulatory authority to consider property values when reviewing wastewater applications and preparing draft permits.

CHANGES MADE TO THE DRAFT PERMIT IN RESPONSE TO COMMENT

No changes to the draft permit have been made in response to public comment.

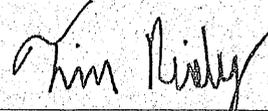
Respectfully submitted,

Texas Commission on Environmental  
Quality

Glenn Shankle  
Executive Director

Robert Martinez, Director  
Environmental Law Division

By

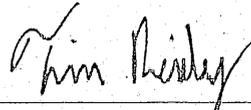


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REPRESENTING THE EXECUTIVE  
DIRECTOR OF THE TEXAS  
COMMISSION ON ENVIRONMENTAL  
QUALITY

CERTIFICATE OF SERVICE

I certify that on November 20, 2007, the "Executive Director's Response to Public Comment" for Permit No. WQ0014772001 was filed with the Texas Commission on Environmental Quality's Office of the Chief Clerk.



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Timothy J. Reidy, Staff Attorney  
Environmental Law Division  
State Bar No. 24058069

CHIEF CLERKS OFFICE

2007 NOV 20 PM 3:04

TEXAS  
COMMISSION  
ON ENVIRONMENTAL  
QUALITY

# Attachment C – Compliance History

# Compliance History

Customer/Respondent/Owner-Operator:	CN600625818 Orangefield Water Supply Corporation	Classification: AVERAGE	Rating: 3.01
Regulated Entity:	RN105137533 ORANGEFIELD WSC WWTF FM 105 FACILITY	Classification: AVERAGE BY DEFAULT	Site Rating: 3.01
ID Number(s):	WASTEWATER PERMIT WASTEWATER EPA ID		WQ0014772001 TX0129313
Location:	BOUNDED ON THE NORTH BY FM ROAD 105; TO THE WEST BY FM 408; TO THE SOUTH BY CORMIER LANE; NO WEST OF THE CITY OF PINEHURST AND NORTHWEST OF BRIDGE CITY		
TCEQ Region:	REGION 10 - BEAUMONT		
Date Compliance History Prepared:	February 21, 2008		
Agency Decision Requiring Compliance History:	Permit - Issuance, renewal, amendment, modification, denial, suspension, or revocation of a permit.		
Compliance Period:	January 04, 2002 to February 21, 2008		

TCEQ Staff Member to Contact for Additional Information Regarding this Compliance History

Name: Tim Reidy Phone: \_\_\_\_\_

## Site Compliance History Components

- |  |            |
|--|------------|
| 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 of the site during the compliance period?    | No         |
| 3. If Yes, who is the current owner?   | <u>N/A</u> |
| 4. If Yes, who was/were the prior owner(s)?  | <u>N/A</u> |
| 5. When did the change(s) in ownership occur?  | <u>N/A</u> |

### Components (Multimedia) for the Site :

- A. Final Enforcement Orders, court judgements, and consent decrees of the state of Texas and the federal government.  
N/A
  - B. Any criminal convictions of the state of Texas and the federal government.  
N/A
  - C. Chronic excessive emissions events.  
N/A
  - D. The approval dates of investigations. (CCEDS Inv. Track. No.)  
.....
  - E. Written notices of violations (NOV). (CCEDS Inv. Track. No.)
  - 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
  - J. Early compliance.  
N/A
- Sites Outside of Texas  
N/A

# Attachment D – GIS Map

**Orangefield Water Supply Corporation**  
**TCEQ Permit No. WQ0014772001**



Protecting Texas by  
 Reducing and  
 Preventing Pollution

Texas Commission on Environmental Quality  
 GIS Team (Mail Code 197)  
 P.O. Box 13087  
 Austin, Texas 78711-3087

February 19, 2008

0 0.05 0.1 0.2 0.3 0.4 Miles

Projection: Texas Statewide Mapping System  
 (TSMS)

Scale 1:19,000

**Legend**

- Hearing Requestor Address
- Discharge Point
- Proposed Site Property Boundary
- Private Property Boundary
- Highway / Road
- Discharge Route
- 1-Mile Radius Around Discharge Point

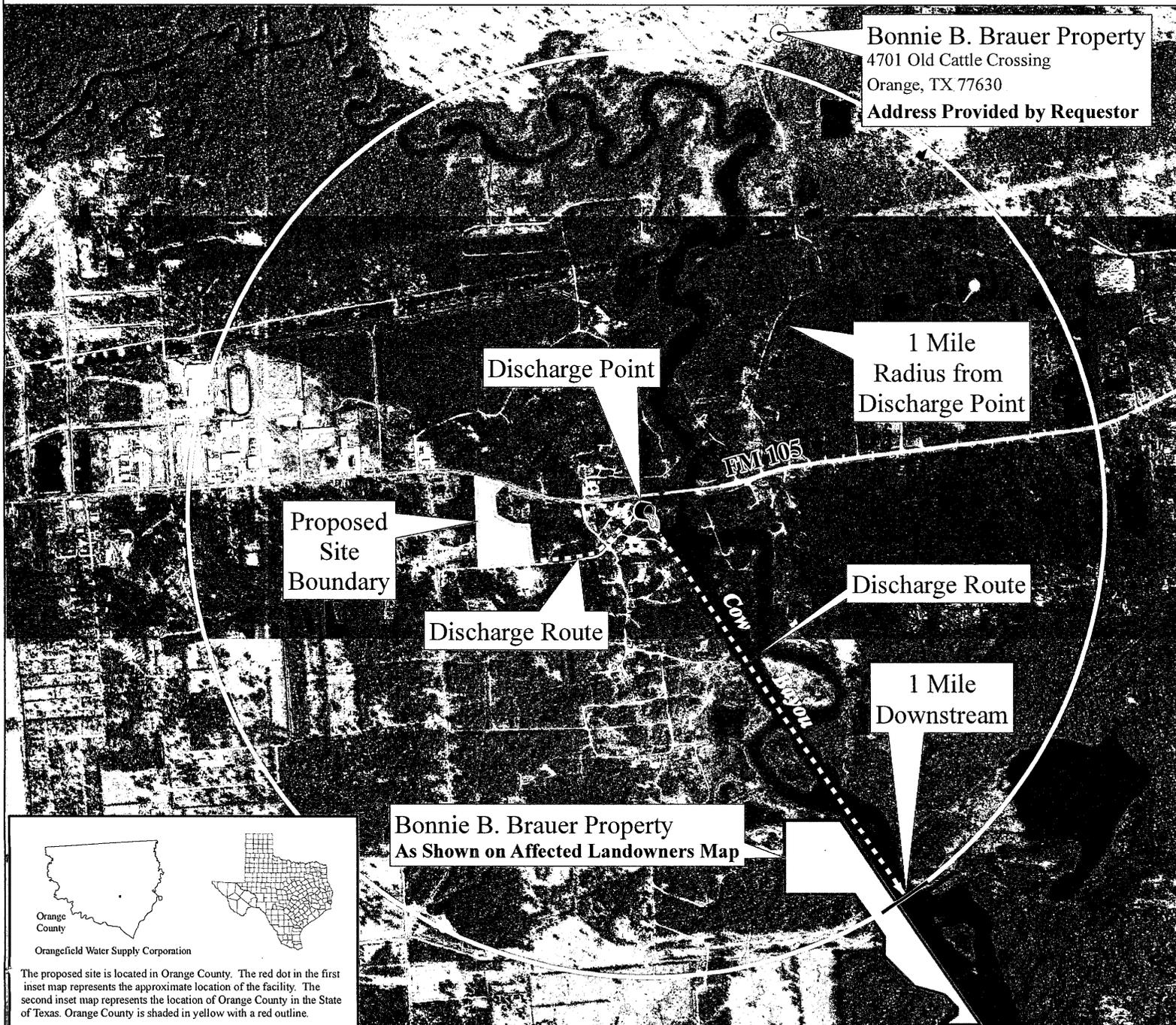
Source: This map was requested by TCEQ's Office of Legal Services (OLS). The location of the facility was provided by OLS. The property boundaries depicted were manually digitized and approximated (survey data not available) using paper maps provided by OLS. Hearing Requestor addresses (if shown) were provided by OLS and geocoded using GDT Streets 2006-2007 geodatabase technology. Unmatched addresses are manually plotted based on Google Maps and Map Quest Internet site locators. PO Boxes cannot be located and are not plotted.

The counties are GDT 2000 Line Data (1:100,000). The imagery in this map are georeferenced aerial photographs called Digital Orthophoto Quarter Quadrangles (DOQQs) which were obtained in 2004 from the National Agricultural Imagery Program (NAIP), U.S. Department of Agriculture. This color-infrared (CIR) imagery has a one-meter pixel resolution. The RGB color channels were re-ordered (2,3,3) to eliminate the red-dominance inherent in CIR imagery in order to appear more natural - a common request by OLS.

DOQQ names: Orangefield quadrangle, from the Lake Charles West one-degree grid.



This map was generated by the Information Resources Division of the Texas Commission on Environmental Quality. This map was not generated by a licensed surveyor, and is intended for illustrative purposes only. No claims are made to the accuracy or completeness of the data or to its suitability for a particular use. For more information concerning this map, contact the Information Resource Division at (512) 239-0800.



**Bonnie B. Brauer Property**  
 4701 Old Cattle Crossing  
 Orange, TX 77630  
**Address Provided by Requestor**

**Discharge Point**

**1 Mile  
 Radius from  
 Discharge Point**

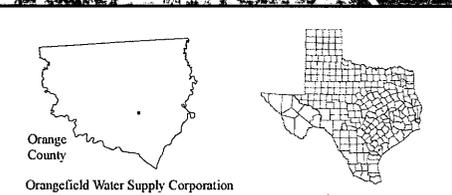
**Proposed  
 Site  
 Boundary**

**Discharge Route**

**Discharge Route**

**1 Mile  
 Downstream**

**Bonnie B. Brauer Property  
 As Shown on Affected Landowners Map**



The proposed site is located in Orange County. The red dot in the first inset map represents the approximate location of the facility. The second inset map represents the location of Orange County in the State of Texas. Orange County is shaded in yellow with a red outline.