March 28th, 2023

Texas Commission on Environmental Quality
Water Quality Division
Applications Review and Processing Team (MC148)
Building F, Room 2101
12100 Park 35 Circle
Austin, Texas 78753

RE: ***Discharge Permit for the Hudson Oaks Wastewater Treatment Plant***

Dear Water Quality Team:

This letter serves to transmit the application for the Hudson Oaks Wastewater Treatment Plant.

The permit application follows this letter within the following attachments:

Attachment A: Administrative Report 1.0
Attachment B: Administrative Report 1.1
Attachment C: SPIF
Attachment D: TCEQ Core Data Form
Attachment E: Domestic Technical Report 1.0
Attachment F: Domestic Technical Report 1.1
Attachment G: Domestic Technical Worksheet 2.0
Attachment H: Domestic Technical Worksheet 2.1
Attachment I: Domestic Technical Worksheet 6.0
Attachment J: Original USGS Maps
Attachment K: Affected Landowners Map
Attachment L: Landowner List and Labels
Attachment M: Buffer Zone Map
Attachment N: Process Flow Diagram
Attachment O: Site Drawing
Attachment P: Original Photographs and Plot Plan
Attachment Q: Design Calculations and Features
Attachment R: Solids Management Plan
Attachment S: Wind Rose
Attachment T: Nearby Wastewater Treatment Facilities
Attachment U: WWTP Regionalization Letter
Attachment V: Copy of Permit Payment Voucher
Attachment W: Public Involvement Plan Form
Attachment Y: Stream Assessment Map

If you have any questions regarding this project, please contact me at 817-339-2288.

Sincerely,
KIMLEY-HORN AND ASSOCIATES, INC.
Texas Firm No. 928

Kyle Kubista, P.E. (Texas License No. 121644)

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ATTACHMENT A.

ADMINISTRATIVE REPORT 1.0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT: City of Hudson Oaks

PERMIT NUMBER: N/A

Indicate if each of the following items is included in your application.

	Y	N		Y	N
Administrative Report 1.0	☒	☐	Original USGS Map	☒	☐
Administrative Report 1.1	☒	☐	Affected Landowners Map	☒	☐
SPIF	☒	☐	Landowner Disk or Labels	☒	☐
Core Data Form	☒	☐	Buffer Zone Map	☒	☐
Public Involvement Plan Form	☒	☐	Flow Diagram	☒	☐
Technical Report 1.0	☒	☐	Site Drawing	☒	☐
Technical Report 1.1	☒	☐	Original Photographs	☒	☐
Worksheet 2.0	☒	☐	Design Calculations	☒	☐
Worksheet 2.1	☒	☐	Solids Management Plan	☒	☐
Worksheet 3.0	☐	☒	Water Balance	☐	☒
Worksheet 3.1	☐	☒			
Worksheet 3.2	☐	☒			
Worksheet 3.3	☐	☒			
Worksheet 4.0	☐	☒			
Worksheet 5.0	☐	☒			
Worksheet 6.0	☒	☐			
Worksheet 7.0	☐	☒			

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region _____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

APPLICATION FOR A DOMESTIC WASTEWATER PERMIT ADMINISTRATIVE REPORT 1.0

If you have questions about completing this form please contact the Applications Review and Processing Team at 512-239-4671.

Section 1. Application Fees (Instructions Page 29)

Indicate the amount submitted for the application fee (check only one).

Flow	New/Major Amendment	Renewal
<0.05 MGD	$350.00 ☐	$315.00 ☐
≥0.05 but <0.10 MGD	$550.00 ☐	$515.00 ☐
≥0.10 but <0.25 MGD	$850.00 ☐	$815.00 ☐
≥0.25 but <0.50 MGD	$1,250.00 ☐	$1,215.00 ☐
≥0.50 but <1.0 MGD	$1,650.00 ☐	$1,615.00 ☐
≥1.0 MGD	$2,050.00 ☒	$2,015.00 ☐

Minor Amendment (for any flow) $150.00 ☐

Payment Information:

Mailed — Check/Money Order Number: N/A

Check/Money Order Amount: N/A

Name Printed on Check: N/A

EPAY — Voucher Number: 614983 & 614984

Copy of Payment Voucher enclosed? Yes ☒

Section 2. Type of Application (Instructions Page 29)

☒ New TPDES

☐ New TLAP

☐ Major Amendment *with* Renewal

☐ Minor Amendment *with* Renewal

☐ Major Amendment *without* Renewal

☐ Minor Amendment *without* Renewal

☐ Renewal without changes

☐ Minor Modification of permit

For amendments or modifications, describe the proposed changes: N/A

For existing permits:

Permit Number: WQ00N/A

EPA I.D. (TPDES only): TXN/A

Expiration Date: N/A

Section 3. Facility Owner (Applicant) and Co-Applicant Information (Instructions Page 29)

A. The owner of the facility must apply for the permit.

What is the Legal Name of the entity (applicant) applying for this permit?

City of Hudson Oaks

(The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal documents forming the entity.)

If the applicant is currently a customer with the TCEQ, what is the Customer Number (CN)? You may search for your CN on the TCEQ website at http://www15.tceq.texas.gov/crpub/

CN: 600645873

What is the name and title of the person signing the application? The person must be an executive official meeting signatory requirements in *30 TAC § 305.44*.

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

First and Last Name: Sterling Naron

Credential (P.E, P.G., Ph.D., etc.): N/A

Title: City Administrator

B. Co-applicant information. Complete this section only if another person or entity is required to apply as a co-permittee.

What is the Legal Name of the co-applicant applying for this permit?

N/A

(The legal name must be spelled exactly as filed with the TX SOS, with the County, or in the legal documents forming the entity.)

If the co-applicant is currently a customer with the TCEQ, what is the Customer Number (CN)? You may search for your CN on the TCEQ website at: http://www15.tceq.texas.gov/crpub/

CN: N/A

What is the name and title of the person signing the application? The person must be an executive official meeting signatory requirements in *30 TAC § 305.44*.

Prefix (Mr., Ms., Miss): N/A

First and Last Name: N/A

Credential (P.E, P.G., Ph.D., etc.): N/A

Title: N/A

Provide a brief description of the need for a co-permittee: N/A

C. Core Data Form

Complete the Core Data Form for each customer and include as an attachment. If the customer type selected on the Core Data Form is Individual, complete Attachment 1 of Administrative Report 1.0.

Attachment: Attachment D: TCEQ Core Data Form

Section 4. Application Contact Information (Instructions Page 30)

This is the person(s) TCEQ will contact if additional information is needed about this application. Provide a contact for administrative questions and technical questions.

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

First and Last Name: Hayden Brodowsky

Credential (P.E, P.G., Ph.D., etc.): N/A

Title: Director of Operations

Organization Name: City of Hudson Oaks

Mailing Address: 210 Hudson Oaks Drive

City, State, Zip Code: Hudson Oaks, Texas 76087

Phone No.: (682) 229-2412 Ext.: N/A Fax No.: N/A

E-mail Address: hayden.brodowsky@hudsonoaks.com

Check one or both: ☒ Administrative Contact ☐ Technical Contact

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

First and Last Name: Kyle Kubista

Credential (P.E, P.G., Ph.D., etc.): P.E.

Title: Professional Engineer

Organization Name: Kimley-Horn

Mailing Address: 801 Cherry Street, Suite 1300, Unit 11

City, State, Zip Code: Fort Worth, TX 76102

Phone No.: 817-339-2288 Ext.: N/A Fax No.: N/A

E-mail Address: kyle.kubista@kimley-horn.com

Check one or both: ☐ Administrative Contact ☒ Technical Contact

Section 5. Permit Contact Information (Instructions Page 30)

Provide two names of individuals that can be contacted throughout the permit term.

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

First and Last Name: Hayden Brodowsky

Credential (P.E, P.G., Ph.D., etc.): N/A

Title: Director of Operations

Organization Name: City of Hudson Oaks

Mailing Address: 210 Hudson Oaks Drive

City, State, Zip Code: Hudson Oaks, Texas 76087

Phone No.: (682) 229-2412 Ext.: N/A Fax No.: N/A

E-mail Address: hayden.brodowsky@hudsonoaks.com

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

First and Last Name: Sterling Naron

Credential (P.E, P.G., Ph.D., etc.): N/A

Title: City Administrator

Organization Name: City of Hudson Oaks

Mailing Address: 210 Hudson Oaks Drive

City, State, Zip Code: Hudson Oaks, Texas 76087

Phone No.: (682) 229-2408 Ext.: N/A Fax No.: N/A

E-mail Address: sterling.naron@hudsonoaks.com

Section 6. Billing Information (Instructions Page 30)

The permittee is responsible for paying the annual fee. The annual fee will be assessed to permits *in effect on September 1 of each year.* The TCEQ will send a bill to the address provided in this section. The permittee is responsible for terminating the permit when it is no longer needed (using form TCEQ-20029).

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

First and Last Name: Hayden Brodowsky

Credential (P.E, P.G., Ph.D., etc.): N/A

Title: Director of Operations

Organization Name: City of Hudson Oaks

Mailing Address: 210 Hudson Oaks Drive

City, State, Zip Code: Hudson Oaks, Texas 76087

Phone No.: (682) 229-2412 Ext.: N/A Fax No.: N/A

E-mail Address: hayden.brodowsky@hudsonoaks.com

Section 7. DMR/MER Contact Information (Instructions Page 31)

Provide the name and complete mailing address of the person delegated to receive and submit Discharge Monitoring Reports (EPA 3320-1) or maintain Monthly Effluent Reports.

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

First and Last Name: Glenn Kincaid

Credential (P.E, P.G., Ph.D., etc.): N/A

Title: Wastewater Superintendent/Field Supervisor

Organization Name: City of Hudson Oaks

Mailing Address: 210 Hudson Oaks Drive

City, State, Zip Code: Hudson Oaks, Texas 76087

Phone No.: (682) 229-2400 Ext.: N/A Fax No.: N/A

E-mail Address: glenn.kincaid@hudsonoaks.com

DMR data is required to be submitted electronically. Create an account at: https://www.tceq.texas.gov/permitting/netdmr/netdmr.html.

Section 8. Public Notice Information (Instructions Page 31)

A. Individual Publishing the Notices

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

First and Last Name: Kyle Kubista

Credential (P.E, P.G., Ph.D., etc.): P.E.

Title: Professional Engineer

Organization Name: Kimley-Horn

Mailing Address: 801 Cherry Street, Suite 1300, Unit 11

City, State, Zip Code: Fort Worth, TX 76102

Phone No.: 817-339-2288 Ext.: N/A Fax No.: N/A

E-mail Address: kyle.kubista@kimley-horn.com

B. Method for Receiving Notice of Receipt and Intent to Obtain a Water Quality Permit Package

Indicate by a check mark the preferred method for receiving the first notice and instructions:

☒ E-mail Address

☐ Fax

☒ Regular Mail

C. Contact person to be listed in the Notices

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

First and Last Name: Kyle Kubista

Credential (P.E, P.G., Ph.D., etc.): P.E.

Title: Professional Engineer

Organization Name: Kimley-Horn

Phone No.: 817-339-2288 Ext.: N/A

E-mail: kyle.kubista@kimley-horn.com

D. Public Viewing Information

If the facility or outfall is located in more than one county, a public viewing place for each county must be provided.

Public building name: Hudson Oaks City Hall

Location within the building: Lobby Desk

Physical Address of Building: 210 Hudson Oaks Dr, Hudson Oaks, TX 76087

City: Hudson Oaks County: Parker

Contact Name: Hayden Brodowsky

Phone No.: (682) 229-2412 Ext.: N/A

E. Bilingual Notice Requirements:

This information is required for new, major amendment, minor amendment or minor modification, and renewal applications.

This section of the application is only used to determine if alternative language notices will be needed. Complete instructions on publishing the alternative language notices will be in your public notice package.

Please call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine whether an alternative language notices are required.

1. Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?

   ☒ Yes ☐ No

   If no, publication of an alternative language notice is not required; skip to Section 9 below.

2. Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?

   ☒ Yes ☐ No

3. Do the students at these schools attend a bilingual education program at another location?

   ☐ Yes ☒ No

4. Would the school be required to provide a bilingual education program but the school has waived out of this requirement under 19 TAC §89.1205(g)?

   ☐ Yes ☒ No

5. If the answer is yes to question 1, 2, 3, or 4, public notices in an alternative language are required. Which language is required by the bilingual program? Spanish

F. Public Involvement Plan Form

Complete the Public Involvement Plan Form (TCEQ Form 20960) for each application for a new permit or major amendment to a permit and include as an attachment.

Attachment: Attachment W: Public Involvement Plan Form

Section 9. Regulated Entity and Permitted Site Information (Instructions Page 33)

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. RNN/A

Search the TCEQ's Central Registry at http://www15.tceq.texas.gov/crpub/ to determine if the site is currently regulated by TCEQ.

B. Name of project or site (the name known by the community where located):

Hudson Oaks Wastewater Treatment Plant

C. Owner of treatment facility: City of Hudson Oaks

Ownership of Facility: ☒ Public ☐ Private ☐ Both ☐ Federal

D. Owner of land where treatment facility is or will be:

Prefix (Mr., Ms., Miss): N/A

First and Last Name: City of Hudson Oaks

Mailing Address: 210 Hudson Oaks Drive

City, State, Zip Code: Hudson Oaks, TX 76087

Phone No.: (682) 229-2412 E-mail Address: hayden.brodowsky@hudsonoaks.com

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

Attachment: N/A

E. Owner of effluent disposal site:

Prefix (Mr., Ms., Miss): N/A

First and Last Name: N/A

Mailing Address: N/A

City, State, Zip Code: N/A

Phone No.: N/A E-mail Address: N/A

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

Attachment: N/A

F. Owner of sewage sludge disposal site (if authorization is requested for sludge disposal on property owned or controlled by the applicant):

Prefix (Mr., Ms., Miss): N/A

First and Last Name: N/A

Mailing Address: N/A

City, State, Zip Code: N/A

Phone No.: N/A E-mail Address: N/A

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

Attachment: N/A

Section 10. TPDES Discharge Information (Instructions Page 34)

A. Is the wastewater treatment facility location in the existing permit accurate?

☐ Yes ☒ No

If no, or a new permit application, please give an accurate description:

The wastewater treatment facility will be new. The wastewater treatment facility is approximately located 1150 feet west of the intersection of Clearview Ct and Trinity River Dr in Weatherford, TX 76087.

B. Are the point(s) of discharge and the discharge route(s) in the existing permit correct?

☐ Yes ☒ No

If no, or a new or amendment permit application, provide an accurate description of the point of discharge and the discharge route to the nearest classified segment as defined in 30 TAC Chapter 307:

The point of discharge is approximately 1,575 ft southwest of the intersection of East Bankhead Drive and Trinity River Drive. Discharge flows southwest from the plant site into South Fork Trinity River (Segment 0831A), thence to Clear Fork Trinity River Below Lake Weatherford (Segment 0831).

City nearest the outfall(s): City of Hudson Oaks

County in which the outfalls(s) is/are located: Parker

Outfall Latitude: 32.7404 Longitude: -97.7221

C. Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch?

☐ Yes ☒ No

If yes, indicate by a check mark if:

☐ Authorization granted ☐ Authorization pending

For new and amendment applications, provide copies of letters that show proof of contact and the approval letter upon receipt.

Attachment: N/A

D. For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge.

N/A

Section 11. TLAP Disposal Information (Instructions Page 36)

A. For TLAPs, is the location of the effluent disposal site in the existing permit accurate?

☐ Yes ☐ No

If no, or a new or amendment permit application, provide an accurate description of the disposal site location:

N/A

B. City nearest the disposal site: N/A

C. County in which the disposal site is located: N/A

D. Disposal Site Latitude: N/A Longitude: N/A

E. For TLAPs, describe the routing of effluent from the treatment facility to the disposal site:

N/A

F. For TLAPs, please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained:

N/A

Section 12. Miscellaneous Information (Instructions Page 37)

A. Is the facility located on or does the treated effluent cross American Indian Land?

☐ Yes ☒ No

B. If the existing permit contains an onsite sludge disposal authorization, is the location of the sewage sludge disposal site in the existing permit accurate?

☐ Yes ☐ No ☒ Not Applicable

If No, or if a new onsite sludge disposal authorization is being requested in this permit application, provide an accurate location description of the sewage sludge disposal site.

N/A

C. Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?

☐ Yes ☒ No

If yes, list each person formerly employed by the TCEQ who represented your company and was paid for service regarding the application:

N/A

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Account number: N/A Amount past due: N/A

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If yes, please provide the following information:

Enforcement order number: N/A Amount past due: N/A

Section 13. Attachments (Instructions Page 38)

Indicate which attachments are included with the Administrative Report. Check all that apply:

☐ Lease agreement or deed recorded easement, if the land where the treatment facility is located or the effluent disposal site are not owned by the applicant or co-applicant.

☒ Original full-size USGS Topographic Map with the following information:

- Applicant's property boundary
- Treatment facility boundary
- Labeled point of discharge for each discharge point (TPDES only)

- Highlighted discharge route for each discharge point (TPDES only)
- Onsite sewage sludge disposal site (if applicable)
- Effluent disposal site boundaries (TLAP only)
- New and future construction (if applicable)
- 1 mile radius information
- 3 miles downstream information (TPDES only)
- All ponds.

☐ Attachment 1 for Individuals as co-applicants

☐ Other Attachments. Please specify: Click here to enter text.

Section 14. Signature Page (Instructions Page 39)

If co-applicants are necessary, each entity must submit an original, separate signature page.

Permit Number: N/A

Applicant: City of Hudson Oaks

Certification:

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

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

Signatory name (typed or printed): Sterling Naron

Signatory title: City Administrator

Signature: Sterling Naron Date: 01/26/2023

(Use blue ink)

Subscribed and Sworn to before me by the said Sterling Naron

on this 26th day of January, 2023.

My commission expires on the 22nd day of June, 2023.

Shelley Scazzero

Notary Public

Shelley Scazzero
Notary Public, State of Texas
Comm. Expires 06/22/2023
Notary ID 125344402

[SEAL]

Parker

County, Texas

Section 15. Plain Language Summary (Instructions Page 40)

If you are subject to the alternative language notice requirements in 30 Texas Administrative Code §39.426, you must provide a translated copy of the completed plain language summary in the appropriate alternative language as part of your application package. For your convenience, a Spanish template has been provided below.

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS

DOMESTIC WASTEWATER

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application.

City of Hudson Oaks (CN60045873) proposes to operate Hudson Oaks Wastewater Treatment Plant (RN N/A). an activated sludge process plant. The facility will be located approximately 1,150 feet west of the intersection of Clearview Ct and Trinity River Dr, in Weatherford, Parker County, Texas 76087.

New application to discharge 1.19 MGD design flow of treated domestic wastewater.

Discharges from the facility are expected to contain five-day biochemical oxygen demand (BOD5), total suspended solids (TSS), ammonia nitrogen (NH_3-N), and dissolved oxygen (DO). Domestic wastewater will be treated by *an activated sludge process plant. The treatment units will include bar screens, aeration basins, secondary clarifiers, aerobic digesters, cloth media disk filters, and chlorination basins*.

PLANTILLA EN ESPAÑOL PARA SOLICITUDES NUEVAS/RENOVACIONES/ENMIENDAS TPDES o TLAP

AGUAS RESIDUALES DOMÉSTICAS

El siguiente resumen se proporciona para esta solicitud de permiso de calidad del agua pendiente que está siendo revisada por la Comisión de Calidad Ambiental de Texas según lo requerido por el Capítulo 39 del Código Administrativo de Texas 30. La información proporcionada en este resumen puede cambiar durante la revisión técnica de la solicitud y no son representaciones federales exigibles de la solicitud de permiso.

1. Introduzca el nombre del solicitante aquí. (2. Introduzca el número de cliente aquí (es decir, CN6 #########).) 3. Elija del menú desplegable. 4. Introduzca el nombre de la instalación aquí. 5. Introduzca el número de entidad regulada aquí (es decir, RN1 #########). 6. Elija del menú desplegable. 7. Introduzca la descripción de la instalación aquí. . La instalación 8. Elija del menú desplegable. ubicado 9. Introduzca la ubicación aquí. , en 10. Introduzca el nombre de la ciudad aquí. , Condado de 11. Introduzca el nombre del condado aquí. , Texas 12. Introduzca el código postal aquí. . 13. Introduzca el resumen de la solicitud de solicitud aquí. *<<Para las aplicaciones de TLAP incluya la siguiente oración, de lo contrario, elimine:>>* Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan14. Liste todos los contaminantes esperados aquí. . 15. Introduzca los tipos de aguas residuales descargadas aquí. 16. Elija del menú desplegable. tratado por 17. Introduzca una descripción del tratamiento de aguas residuales utilizado en la instalación aquí.

El siguiente resumen se proporciona para esta solicitud de permiso de calidad del agua pendiente que está siendo revisada por la Comisión de Calidad Ambiental de Texas según lo requerido por el Capítulo 39 del Código Administrativo de Texas 30. La información proporcionada en este resumen puede cambiar durante la revisión técnica de la solicitud y no son representaciones federales exigibles de la solicitud de permiso. La cuidad de Hudson Oaks (CN60045873) propone a operar La planta de tratamiento de aguas residuales de Hudson Oaks (RN N/A). La planta operara utilizando el proceso de lodos activados. La planta estará localizada aproximadamente a 1,150 pies al oeste de la intersección de la calle Clearview y la calle Trinity River, en Weatherford, en el Condado de Parker, Texas 76087.

Nueva aplicación para descargar 1.19 millones de galones de agua residual tratada por día basados en el flujo de diseño.

Se espera que las descargas de esta planta tendrán materia orgánica carbonosa basada en 5 días (BOD_5), solidos suspendidos totales (TSS), amoniaco-nitrógeno (NH_3-N), y oxígeno disuelto (DO). El agua residual domestica será tratada por una planta que utiliza el proceso de lodos activados, y las unidades de tratamiento incluirán pantallas de barra, tanques de aeración, tanques clarificadores, tanques de digestión aeróbica, filtro de discos de medio textil, y tanques de desinfección de cloro.

ATTACHMENT B.

ADMINISTRATIVE REPORT 1.1

DOMESTIC ADMINISTRATIVE REPORT 1.1

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 41)

A. Indicate by a check mark that the landowners map or drawing, with scale, includes the following information, as applicable:

- ☒ The applicant's property boundaries
- ☒ The facility site boundaries within the applicant's property boundaries
- ☒ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone
- ☒ The property boundaries of all landowners surrounding the applicant's property (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
- ☒ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream
- ☒ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge
- ☐ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides
- ☐ The boundaries of the effluent disposal site (for example, irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property
- ☐ The property boundaries of all landowners surrounding the effluent disposal site
- ☐ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners surrounding the applicant's property boundaries where the sewage sludge land application site is located
- ☐ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (for example, sludge surface disposal site or sludge monofill) is located

B. ☒ Indicate by a check mark that a separate list with the landowners' names and mailing addresses cross-referenced to the landowner's map has been provided.

C. Indicate by a check mark in which format the landowners list is submitted:

☐ USB Drive ☒ Four sets of labels

D. Provide the source of the landowners' names and mailing addresses: Parker County Appraisal District

E. As required by *Texas Water Code § 5.115*, is any permanent school fund land affected by this application?

☐ Yes ☒ No

If yes, provide the location and foreseeable impacts and effects this application has on the land(s):

N/A

Section 2. Original Photographs (Instructions Page 44)

Provide original ground level photographs. Indicate with checkmarks that the following information is provided.

☒ At least one original photograph of the new or expanded treatment unit location

☒ At least two photographs of the existing/proposed point of discharge and as much area downstream (photo 1) and upstream (photo 2) as can be captured. If the discharge is to an open water body (e.g., lake, bay), the point of discharge should be in the right or left edge of each photograph showing the open water and with as much area on each respective side of the discharge as can be captured.

☐ At least one photograph of the existing/proposed effluent disposal site

☒ A plot plan or map showing the location and direction of each photograph

Section 3. Buffer Zone Map (Instructions Page 44)

A. Buffer zone map. Provide a buffer zone map on 8.5 x 11-inch paper with all of the following information. The applicant's property line and the buffer zone line may be distinguished by using dashes or symbols and appropriate labels.

- The applicant's property boundary;
- The required buffer zone; and
- Each treatment unit; and
- The distance from each treatment unit to the property boundaries.

B. Buffer zone compliance method. Indicate how the buffer zone requirements will be met. Check all that apply.

☒ Ownership

☐ Restrictive easement

☐ Nuisance odor control

☐ Variance

C. Unsuitable site characteristics. Does the facility comply with the requirements regarding unsuitable site characteristic found in 30 TAC § 309.13(a) through (d)?

☒ Yes ☐ No

ATTACHMENT C.

SPIF

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: ____Renewal ____Major Amendment ____Minor Amendment ____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

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

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

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

The SPIF must be completed as a separate document. The TCEQ will mail a copy of the SPIF to each agency as required by the TCEQ agreement with EPA. If any of the items are not completely addressed or further information is needed, you will be contacted to provide the information before the permit is issued. Each item must be completely addressed.

Do not refer to a response of any item in the permit application form. Each attachment must be provided with this form separately from the administrative report of the application. The application will not be declared administratively complete without this form being completed in its entirety including all attachments.

The following applies to all applications:

1. Permittee: City of Hudson Oaks

   Permit No. WQ00 N/A EPA ID No. TX N/A

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

   The wastewater treatment facility will be new. The wastewater treatment facility is located approximately 1,150 feet west of the intersection of Clearview Ct and Trinity River Dr in Weatherford, TX 76087.

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

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

First and Last Name: Sterling Naron

Credential (P.E, P.G., Ph.D., etc.): N/A

Title: City Administrator

Mailing Address: 210 Hudson Oaks Drive

City, State, Zip Code: Hudson Oaks, Texas 76087

Phone No.: (682) 229-2408 Ext.: N/A Fax No.: N/A

E-mail Address: sterling.naron@hudsonoaks.com

2. List the county in which the facility is located: Parker County
3. If the property is publicly owned and the owner is different than the permittee/applicant, please list the owner of the property.

N/A

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

The point of discharge is approximately 1,575 ft southwest of the intersection of East Bankhead Drive and Trinity River Drive. Discharge flows southwest from the plant site via pipe to South Fork Trinity River (Segment 0831A), thence to Clear Fork Trinity River Below Lake Weatherford (Segment 0831).

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

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

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

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

☐ Disturbance of vegetation or wetlands

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

The construction impact can ultimately affect 11.75 acres of mostly surface disturbance with an approximate maximum depth of excavation of 30 feet.

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

The property is a natural area compromised of trees and native vegetation.

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

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

No current buildings or structures are located on the property.

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

The property has historically served as natural area compromised of trees and native vegetation. The deed history from the Parker County Appraisal District website indicates the property was owned by Richard Micheletti until 8/30/2020. It was then subsequently owned by Rhett G Micheletti until 6/30/2022, It was then subsequently owned by the City of Hudson Oaks.

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

USGS science for a changing world

The National Map US Topo

ANNETTA QUADRANGLE
TEXAS - PARKER COUNTY
7.5-MINUTE SERIES

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Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid:Universal Transverse Mercator, Zone 14S
This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery	NAIP, October 2016 - November 2016	
Roads	U.S. Census Bureau, 2015 -	2018
Names	GNIS, 1979 -	2018
Hydrography	National Hydrography Dataset, 2000 -	2018
Contours	National Elevation Dataset, 2004 -	2017
Boundaries	Multiple sources; see metadata file 2016 -	2017
Wetlands	FWS National Wetlands Inventory	1981

UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET
MN GN 3°40' 65 MILS 0°43' 13 MILS

U.S. National Grid
100,000 - m Square ID
PB
Grid Zone Designation 14S

SCALE 1:24 000
1 0.5 0 KILOMETERS 1 2
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CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011.
A metadata file associated with this product is draft version 0.6.18

TEXAS
QUADRANGLE LOCATION

ADJOINING QUADRANGLES
1 Weatherford North
2 Lake Weatherford
3 Springtown SE
4 Weatherford South
5 Aledo
6 Tin Top
7 Chapin
8 Cresson

ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

ANNETTA, TX
2019

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USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

LAKE WEATHERFORD QUADRANGLE
TEXAS - PARKER COUNTY
7.5-MINUTE SERIES

-97.7500° 617000mE -97.6250° 32.8750°
32.8750° 3638000mN 32.7500°

Bethel Cem
Reservoir Number Sixteen
McKnight Br
Patton Br
Cross-Wind Airport
Dobbs Br
Clear Fork Trinity River
Reservoir Number Eighteen
Brown Cr
Clark Cem
Reservoir Number Seventeen
Rankin Br
Silver Cr
Hays Br
Wright Cem
Reservoir Number Nineteen
Green Br
Reservoir Number Twentyone
Reservoir Number Twentytwo A
Indian Springs
Indian Cr
Simmons Cem
Turner Cem
Holder Br
Reservoir Number Thirty
Wampler
Wampler Cem
Underwood Br
WEATHERFORD
Punkin Center
Hudson Oaks
Parker County Airport
Lake Weatherford
Willow Park
Squaw Cr
Marys Cr
Little Silver Cr

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Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid:Universal Transverse Mercator, Zone 14S

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, October 2016 - November 2016
Roads.....U.S. Census Bureau, 2015 - 2018
Names.....GNIS, 1979 - 2018
Hydrography.....National Hydrography Dataset, 2000 - 2018
Contours.....National Elevation Dataset, 2004
Boundaries.....Multiple sources; see metadata file 2016 - 2017

Wetlands.....FWS National Wetlands Inventory 1981

MN GN 3°40' 65 MILS 0°43' 13 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
PB
Grid Zone Designation 14S

SCALE 1:24 000
KILOMETERS 1 0.5 0 1 2
METERS 1000 500 0 1000 2000
MILES 1 0.5 0 1
FEET 1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011.
A metadata file associated with this product is draft version 0.6.18

TEXAS
QUADRANGLE LOCATION

1 2 3
4 5
6 7 8

1 Poolville
2 Springtown
3 Azle
4 Weatherford North
5 Springtown SE
6 Weatherford South
7 Annetta
8 Aledo
ADJOINING QUADRANGLES

ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

LAKE WEATHERFORD, TX
2019

Kimley»Horn

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WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

Use this form to submit the Application Fee, if the mailing the payment.

- Complete items 1 through 5 below.
- Staple the check or money order in the space provided at the bottom of this document.
- Do not mail this form with the application form.
- Do not mail this form to the same address as the application.
- Do not submit a copy of the application with this form as it could cause duplicate permit entries.

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

Texas Commission on Environmental Quality
Financial Administration Division
Cashier's Office, MC-214
P.O. Box 13088
Austin, Texas 78711-3088

BY OVERNIGHT/EXPRESS MAIL

Texas Commission on Environmental Quality
Financial Administration Division
Cashier's Office, MC-214
12100 Park 35 Circle
Austin, Texas 78753

Fee Code: WQP Waste Permit No: Click here to enter text

1. Check or Money Order Number: Click here to enter text
2. Check or Money Order Amount: Click here to enter text
3. Date of Check or Money Order: Click here to enter text
4. Name on Check or Money Order: Click here to enter text
5. APPLICATION INFORMATION

   Name of Project or Site: Click here to enter text

   Physical Address of Project or Site: Click here to enter text

   If the check is for more than one application, attach a list which includes the name of each Project or Site (RE) and Physical Address, exactly as provided on the application.

Staple Check or Money Order in This Space

THIS PAGE INTENTIONALLY LEFT BLANK

Section 1. Individual Information (Instructions Page 50)

Complete this attachment if the facility applicant or co-applicant is an individual. Make additional copies of this attachment if both are individuals.

Prefix (Mr., Ms., Miss): Click here to enter text.

Full legal name (first, middle, last): Click here to enter text.

Driver's License or State Identification Number: Click here to enter text.

Date of Birth: Click here to enter text.

Mailing Address: Click here to enter text.

City, State, and Zip Code: Click here to enter text.

Phone Number: Click here to enter text. Fax Number: Click here to enter text.

E-mail Address: Click here to enter text.

CN: Click here to enter text.

For Commission Use Only:
Customer Number:
Regulated Entity Number:
Permit Number:

CHECKLIST OF COMMON DEFICIENCIES

Below is a list of common deficiencies found during the administrative review of domestic wastewater permit applications. To ensure the timely processing of this application, please review the items below and indicate by checking Yes that each item is complete and in accordance applicable rules at 30 TAC Chapters 21, 281, and 305. If an item is not required this application, indicate by checking N/A where appropriate. Please do not submit the application until the items below have been addressed.

Core Data Form (TCEQ Form No. 10400) ☒ Yes
(Required for all applications types. Must be completed in its entirety and signed. Note: Form may be signed by applicant representative.)

Correct and Current Industrial Wastewater Permit Application Forms ☒ Yes
(TCEQ Form Nos. 10053 and 10054. Version dated 6/25/2018 or later.)

Water Quality Permit Payment Submittal Form (Page 19) ☒ Yes
(Original payment sent to TCEQ Revenue Section. See instructions for mailing address.)

7.5 Minute USGS Quadrangle Topographic Map Attached ☒ Yes
(Full-size map if seeking "New" permit. 8 ½ x 11 acceptable for Renewals and Amendments)

Current/Non-Expired, Executed Lease Agreement or Easement Attached ☒ N/A ☐ Yes

Landowners Map ☐ N/A ☒ Yes
(See instructions for landowner requirements)

Things to Know:

- All the items shown on the map must be labeled.
- The applicant's complete property boundaries must be delineated which includes boundaries of contiguous property owned by the applicant.
- The applicant cannot be its own adjacent landowner. You must identify the landowners immediately adjacent to their property, regardless of how far they are from the actual facility.
- If the applicant's property is adjacent to a road, creek, or stream, the landowners on the opposite side must be identified. Although the properties are not adjacent to applicant's property boundary, they are considered potentially affected landowners. If the adjacent road is a divided highway as identified on the USGS topographic map, the applicant does not have to identify the landowners on the opposite side of the highway.

Landowners Cross Reference List ☐ N/A ☒ Yes
(See instructions for landowner requirements)

Landowners Labels or USB Drive attached ☐ N/A ☒ Yes
(See instructions for landowner requirements)

Original signature per 30 TAC § 305.44 – Blue Ink Preferred ☒ Yes
(If signature page is not signed by an elected official or principle executive officer, a copy of signature authority/delegation letter must be attached)

ATTACHMENT D.

TCEQ CORE DATA FORM

TCEQ Use Only

TCEQ Core Data Form

For detailed instructions on completing this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission (*If other is checked please describe in space provided.*)

☒ New Permit, Registration or Authorization (*Core Data Form should be submitted with the program application.*)

☐ Renewal *(Core Data Form should be submitted with the renewal form)* ☐ Other

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number *(if issued)*
CN 600645873		RN

SECTION II: Customer Information

4. General Customer Information | **5. Effective Date for Customer Information Updates** (mm/dd/yyyy)

☐ New Customer ☒ Update to Customer Information ☐ Change in Regulated Entity Ownership
☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).

6. Customer Legal Name *(If an individual, print last name first: eg: Doe, John)* | *If new Customer, enter previous Customer below:*

City of Hudson Oaks

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*
17519021012	17519021012	75-1902101	966939746

11. Type of Customer: ☐ Corporation ☐ Individual Partnership: ☐ General ☐ Limited
Government: ☒ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

12. Number of Employees
☐ 0-20 ☒ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher

13. Independently Owned and Operated?
☐ **Yes** ☒ **No**

14. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check one of the following*

☒ Owner ☐ Operator ☐ Owner & Operator
☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant ☐ Other:

15. Mailing Address:								
	210 Hudson Oaks Drive							
	City	Hudson Oaks	**State**	TX	**ZIP**	76087	**ZIP + 4**	4710

16. Country Mailing Information *(if outside USA)*	17. E-Mail Address *(if applicable)*
	hayden.brodowsky@hudsonoaks.com

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*

(682) 229-2412		( ) -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information *(If 'New Regulated Entity" is selected, a new permit application is also required.)*

☒ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).

22. Regulated Entity Name *(Enter name of the site where the regulated action is taking place.)*

Hudson Oaks Wastewater Treatment Plant

23. Street Address of the Regulated Entity: ***(No PO Boxes)***								
	City		**State**	TX	**ZIP**		**ZIP + 4**	
24. County								

If no Street Address is provided, fields 25-28 are required.

25. Description to Physical Location:	The wastewater treatment facility is approximately located 1,150 feet west of the intersection of Clearview Ct and Triniry River Dr in Weatherford, TX 76087.

26. Nearest City	**State**	**Nearest ZIP Code**
Hudson Oaks	TX	76087

Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).

27. Latitude (N) In Decimal:	32.7410		**28. Longitude (W) In Decimal:**	-97.7220	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
32	44	27.6	-97	43	19.2

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
4952		221320	

33. What is the Primary Business of this entity? *(Do not repeat the SIC or NAICS description.)*

Treat and discharge wastes.

34. Mailing Address:	210 Hudson Oaks Drive							
	City	Hudson Oaks	**State**	TX	**ZIP**	76087	**ZIP + 4**	4710
35. E-Mail Address:	hayden.brodowsky@hudsonoaks.com							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(682) 229-2412		( ) -

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:

SECTION IV: Preparer Information

40. Name:	Kyle Kubista	41. Title:	Professional Engineer
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(817) 339-2288		(817) 335-6511	kyle.kubista@kimley-horn.com

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	City of Hudson Oaks	Job Title:	City Administrator
Name *(In Print)*:	Sterling Naron	Phone:	(682) 229- 2408
Signature:	Sterling Naron	Date:	01/26/2023

ATTACHMENT E.

DOMESTIC TECHNICAL REPORT 1.0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION

DOMESTIC TECHNICAL REPORT 1.0

The Following Is Required For All Applications

Renewal, New, And Amendment

Section 1. Permitted or Proposed Flows (Instructions Page 51)

A. Existing/Interim I Phase

Design Flow (MGD): 0.2 MGD

2-Hr Peak Flow (MGD): 0.8 MGD

Estimated construction start date: Winter 2024

Estimated waste disposal start date: Winter 2025

B. Interim II Phase

Design Flow (MGD): 0.95 MGD

2-Hr Peak Flow (MGD): 3.8 MGD

Estimated construction start date: TBD

Estimated waste disposal start date: TBD

C. Final Phase

Design Flow (MGD): 1.19 MGD

2-Hr Peak Flow (MGD): 4.76 MGD

Estimated construction start date: TBD

Estimated waste disposal start date: TBD

D. Current operating phase: N/A

Provide the startup date of the facility: N/A

Section 2. Treatment Process (Instructions Page 51)

A. Treatment process description

Provide a detailed description of the treatment process. **Include the type of**

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

Interim Phase 1: Raw wastewater will enter the influent lift station, flow into the headworks screen, then split flow between aeration basins 1 & 2, then through clarifiers 1 & 2, followed by the cloth media filter, then into the chlorine contact basin, and then to the outfall. The solids will be pumped to the aerobic digester. The solids will be pumped out and then hauled to a landfill. Interim Phase 2: Raw wastewater will enter the influent lift station, flow into the headworks screen, then split flow between 4 aeration basins, then through 4 clarifiers, followed by the cloth media filter, then into the chlorine contact basin, and then to the outfall. The solids will be pumped to the 3 aerobic digesters. The solids will be pumped out and then hauled to a landfill. Final Phase: Raw wastewater will enter the influent lift station, flow into the headworks screen, split flow between 5 aeration basins, then through 5 clarifiers, followed by the cloth media filter, then into the chlorine contact basin, and then to the outfall. The solids will be pumped to the 4 aerobic digesters. The solids will be pumped out and then hauled to a landfill.

Port or pipe diameter at the discharge point, in inches: 18 in.

B. Treatment Units

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

Table 1.0(1) – Treatment Units

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Aeration Basin (Interim Phase 1)	2	80' x 16' x 18'
Aeration Basin (Interim Phase 2)	2	100' x 20' x 18'
Aeration Basin (Final Phase)	1	80' x 16' x 18'
Clarifier (Interim Phase 1)	2	35' Ø x 12' SWD
Clarifier (Interim Phase 2)	2	45' Ø x 12' SWD
Clarifier (Final Phase)	1	30' Ø x 12' SWD
Aerobic Digester (Interim Phase 1)	1	42' Ø x 16' SWD
Aerobic Digester (Interim Phase 2)	2	42' Ø x 16' SWD
Aerobic Digester (Final Phase)	1	42' Ø x 16' SWD
Cloth Media Disk Filter	1	12' x 14' x 11'
Chlorine Contact Basin (Interim Phase 1)	1	40' x 25' x 12'

C. Process flow diagrams

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

Attachment: Attachment N: Process Flow Diagram

Section 3. Site Drawing (Instructions Page 52)

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

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

Attachment: Attachment O: Site Drawing

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

The Hudson Oaks Wastewater Treatment Plant will service the City of Hudson Oaks Sewer CCN within Parker County, Texas.

Section 4. Unbuilt Phases (Instructions Page 52)

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

Yes ☐ No ☒

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

Yes ☐ No ☐

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

N/A

Section 5. Closure Plans (Instructions Page 53)

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

Yes ☐ No ☒

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

Yes ☐ No ☐

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

N/A

Section 6. Permit Specific Requirements (Instructions Page 53)

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

A. Summary transmittal

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

Yes ☐ No ☒

If yes, provide the date(s) of approval for each phase: N/A

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

N/A

B. Buffer zones

Have the buffer zone requirements been met?

Yes ☒ No ☐

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

Ownership.

C. Other actions required by the current permit

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

Yes ☐ No ☒

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

N/A

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

Yes ☐ No ☒

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

2. Grit and grease processing

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

N/A

3. Grit disposal

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

Yes ☐ No ☐

If No, contact the TCEQ Municipal Solid Waste team at 512-239-0000. Note: A registration or permit is required for grit disposal. Grit shall not be combined with treatment plant sludge. See the instruction booklet for additional information on grit disposal requirements and restrictions.

Describe the method of grit disposal.

N/A

4. Grease and decanted liquid disposal

Note: A registration or permit is required for grease disposal. Grease shall not be combined with treatment plant sludge. For more information, contact the TCEQ Municipal Solid Waste team at 512-239-0000.

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

N/A

E. Stormwater management

1. Applicability

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

Yes ☒ No ☐

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

Yes ☐ No ☒

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

2. MSGP coverage

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

Yes ☐ No ☒

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

TXR05 N/A or TXRNE N/A

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

Yes ☐ No ☐

3. Conditional exclusion

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

Yes ☐ No ☐

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

N/A

4. Existing coverage in individual permit

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

Yes ☐ No ☒

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

N/A

5. Zero stormwater discharge

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

Yes ☐ No ☐

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

N/A

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

6. Request for coverage in individual permit

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

Yes ☐ No ☐

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

N/A

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

Yes ☐ No ☒

If yes, a Sewage Sludge Solids Management Plan is required. See Example 5 in the instructions.

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

1. Acceptance of sludge from other WWTPs

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

Yes ☐ No ☒

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

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

N/A

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

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

Yes ☐ No ☒

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

Yes ☐ No ☐

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

Yes ☐ No ☐

If yes to any of the above, provide a the date that the plant started accepting septic waste, or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the BOD_5 concentration of the septic waste, and the design

BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

N/A

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

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

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

Yes ☐ No ☒

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

N/A

Section 7. Pollutant Analysis of Treated Effluent (Instructions Page 58)

Is the facility in operation?

Yes ☐ No ☒

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

If yes, provide effluent analysis data for the listed pollutants. ***Wastewater treatment facilities*** complete Table 1.0(2). **W*ater treatment facilities*** discharging filter backwash water, complete Table 1.0(3).

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

Table 1.0(2) - Pollutant Analysis for Wastewater Treatment Facilities

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

*TPDES permits only

†TLAP permits only

Table 1.0(3) - Pollutant Analysis for Water Treatment Facilities

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Total Dissolved Solids, mg/l					
pH, standard units					
Fluoride, mg/l					
Aluminum, mg/l					
Alkalinity ($CaCO_3$), mg/l					

Section 8. Facility Operator (Instructions Page 60)

Facility Operator Name: Facility not in operation; TBD

Facility Operator's License Classification and Level: Facility not in operation; TBD

Facility Operator's License Number: Facility not in operation; TBD

Section 9. Sewage Sludge Management and Disposal (Instructions Page 60)

A. Sludge disposal method

Identify the current or anticipated sludge disposal method or methods from the following list. Check all that apply.

☒ Permitted landfill

☐ Permitted or Registered land application site for beneficial use

☐ Land application for beneficial use authorized in the wastewater permit

☐ Permitted sludge processing facility

☐ Marketing and distribution as authorized in the wastewater permit

☐ Composting as authorized in the wastewater permit

☐ Permitted surface disposal site (sludge monofill)

☐ Surface disposal site (sludge monofill) authorized in the wastewater permit

☐ Transported to another permitted wastewater treatment plant or permitted sludge processing facility. If you selected this method, a written statement or contractual agreement from the wastewater treatment plant or permitted sludge processing facility accepting the sludge must be included with this application.

☐ Other: Click here to enter text.

B. Sludge disposal site

Disposal site name: Registered TCEQ permit landfill to be selected at a future date.

TCEQ permit or registration number: TBD

County where disposal site is located: TBD

C. Sludge transportation method

Method of transportation (truck, train, pipe, other): Registered hauler to be selected at a future date.

Name of the hauler: N/A

Hauler registration number: N/A

Sludge is transported as a:

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

Section 10. Permit Authorization for Sewage Sludge Disposal (Instructions Page 60)

A. Beneficial use authorization

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

Yes ☐ No ☒

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

Yes ☐ No ☐

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

Yes ☐ No ☐

B. Sludge processing authorization

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

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

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

Yes ☐ No ☐

Section 11. Sewage Sludge Lagoons (Instructions Page 61)

Does this facility include sewage sludge lagoons?

Yes ☐ No ☒

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

A. Location information

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

- Original General Highway (County) Map:

  Attachment: N/A

- USDA Natural Resources Conservation Service Soil Map:

  Attachment: N/A

- Federal Emergency Management Map:

  Attachment: N/A

- Site map:

  Attachment: N/A

Discuss in a description if any of the following exist within the lagoon area.

Check all that apply.

☐ Overlap a designated 100-year frequency flood plain

☐ Soils with flooding classification

☐ Overlap an unstable area

☐ Wetlands

☐ Located less than 60 meters from a fault

☐ None of the above

Attachment: N/A

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

N/A

B. Temporary storage information

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

Nitrate Nitrogen, mg/kg: N/A

Total Kjeldahl Nitrogen, mg/kg: N/A

Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: N/A

Phosphorus, mg/kg: N/A

Potassium, mg/kg: N/A

pH, standard units: N/A

Ammonia Nitrogen mg/kg: N/A

Arsenic: N/A

Cadmium: N/A

Chromium: N/A

Copper: N/A

Lead: N/A

Mercury: N/A

Molybdenum: N/A

Nickel: N/A

Selenium: N/A

Zinc: N/A

Total PCBs: N/A

Provide the following information:

Volume and frequency of sludge to the lagoon(s): N/A

Total dry tons stored in the lagoons(s) per 365-day period: N/A

Total dry tons stored in the lagoons(s) over the life of the unit: N/A

C. Liner information

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

Yes ☐ No ☐

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

N/A

D. Site development plan

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

N/A

Attach the following documents to the application.

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

  Attachment: N/A
- Copy of the closure plan

  Attachment: N/A
- Copy of deed recordation for the site

  Attachment: N/A
- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons

  Attachment: N/A
- Description of the method of controlling infiltration of groundwater and surface water from entering the site

Attachment: N/A

- Procedures to prevent the occurrence of nuisance conditions

  Attachment: N/A

E. Groundwater monitoring

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

Yes ☐ No ☐

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

Attachment: N/A

Section 12. Authorizations/Compliance/Enforcement (Instructions Page 63)

A. Additional authorizations

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

Yes ☐ No ☒

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

N/A

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

Yes ☐ No ☒

Is the permittee required to meet an implementation schedule for compliance or enforcement?

Yes ☐ No ☒

If yes to either question, provide a brief summary of the enforcement, the implementation schedule, and the current status:

N/A

Section 13. RCRA/CERCLA Wastes (Instructions Page 63)

A. RCRA hazardous wastes

Has the facility received in the past three years, does it currently receive, or will it receive RCRA hazardous waste?

Yes ☐ No ☒

B. Remediation activity wastewater

Has the facility received in the past three years, does it currently receive, or will it receive CERCLA wastewater, RCRA remediation/corrective action wastewater or other remediation activity wastewater?

Yes ☐ No ☒

C. Details about wastes received

If yes to either Subsection A or B above, provide detailed information concerning these wastes with the application.

Attachment: N/A

Section 14. Laboratory Accreditation (Instructions Page 64)

All laboratory tests performed must meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification*, which includes the following general exemptions from National Environmental Laboratory Accreditation Program (NELAP) certification requirements:

- The laboratory is an in-house laboratory and is:
  - periodically inspected by the TCEQ; or
  - located in another state and is accredited or inspected by that state; or
  - performing work for another company with a unit located in the same site; or
  - performing pro bono work for a governmental agency or charitable organization.
- The laboratory is accredited under federal law.
- The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.
- The laboratory supplies data for which the TCEQ does not offer accreditation.

The applicant should review *30 TAC Chapter 25* for specific requirements.

The following certification statement shall be signed and submitted with every application. See the *Signature Page* section in the Instructions, for a list of designated representatives who may sign the certification.

CERTIFICATION:

I certify that all laboratory tests submitted with this application meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.*

Printed Name: Sterling Naron

Title: City Administrator

Signature: Sterling Naron

Date: 01/26/2023

ATTACHMENT F.

DOMESTIC TECHNICAL REPORT 1.1

DOMESTIC TECHNICAL REPORT 1.1

The following is required for new and amendment applications

Section 1. Justification for Permit (Instructions Page 66)

A. Justification of permit need

Provide a detailed discussion regarding the need for any phase(s) not currently permitted. Failure to provide sufficient justification may result in the Executive Director recommending denial of the proposed phase(s) or permit.

The City of Hudson Oaks currently discharges its existing wastewater flow to the City of Weatherford. Additionally, the City of Hudson Oaks is experiencing rapid population growth and is expecting future residential development. As such, a new wastewater treatment plant is needed to accommodate existing and future wastewater flows experienced by the City of Hudson Oaks. Therefore, a 1.19 MGD facility will be required to accommodate the city. An initial 0.20 MGD facility will accommodate the existing flows, while two expansion phases of 0.75 MGD and 0.24 MGD will accommodate the full buildout of 1.19 MGD.

B. Regionalization of facilities

Provide the following information concerning the potential for regionalization of domestic wastewater treatment facilities:

1. Municipally incorporated areas

If the applicant is a city, then Item 1 is not applicable. Proceed to Item 2 Utility CCN areas.

Is any portion of the proposed service area located in an incorporated city?

Yes ☐ No ☐ Not Applicable ☒

If yes, within the city limits of: N/A

If yes, attach correspondence from the city.

Attachment: N/A

If consent to provide service is available from the city, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the city versus the cost of the proposed facility or expansion attached.

Attachment: N/A

2. *Utility CCN areas*

Is any portion of the proposed service area located inside another utility's CCN area?

Yes ☐ No ☒

If yes, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the CCN facilities versus the cost of the proposed facility or expansion.

Attachment: N/A

3. *Nearby WWTPs or collection systems*

Are there any domestic permitted wastewater treatment facilities or collection systems located within a three-mile radius of the proposed facility?

Yes ☒ No ☐

If yes, attach a list of these facilities that includes the permittee's name and permit number, and an area map showing the location of these facilities.

Attachment: Attachment T: Nearby Wastewater Treatment Facilities

If yes, attach copies of your certified letters to these facilities **and** their response letters concerning connection with their system.

Attachment: Attachment U: WWTP Regionalization Letter

Does a permitted domestic wastewater treatment facility or a collection system located within three (3) miles of the proposed facility currently have the capacity to accept or is willing to expand to accept the volume of wastewater proposed in this application?

Yes ☐ No ☒

If yes, attach an analysis of expenditures required to connect to a permitted wastewater treatment facility or collection system located within 3 miles versus the cost of the proposed facility or expansion.

Attachment: N/A

Section 2. Organic Loading (Instructions Page 67)

Is this facility in operation?

Yes ☐ No ☒

If no, proceed to Item B, Proposed Organic Loading.

If yes, provide organic loading information in Item A, Current Organic Loading

A. Current organic loading

Facility Design Flow (flow being requested in application): N/A

Average Influent Organic Strength or BOD_5 Concentration in mg/l: N/A

Average Influent Loading (lbs/day = total average flow X average BOD_5 conc. X 8.34): N/A

Provide the source of the average organic strength or BOD_5 concentration.

N/A

B. Proposed organic loading

This table must be completed if this application is for a facility that is not in operation or if this application is to request an increased flow that will impact organic loading.

Table 1.1(1) – Design Organic Loading

Source	Total Average Flow (MGD)	Influent BOD_5 Concentration (mg/l)
Municipality	1.19	300
Subdivision		
Trailer park – transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria, no		

Source	Total Average Flow (MGD)	Influent BOD_5 Concentration (mg/l)
and showers		
School with cafeteria, no showers		
Recreational park, overnight use		
Recreational park, day use		
Office building or factory		
Motel		
Restaurant		
Hospital		
Nursing home		
Other		
TOTAL FLOW from all sources	1.19	
AVERAGE BOD_5 from all sources		300

Section 3. Proposed Effluent Quality and Disinfection (Instructions Page 68)

A. Existing/Interim I Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 10

Total Suspended Solids, mg/l: 15

Ammonia Nitrogen, mg/l: 3

Total Phosphorus, mg/l: 0.5

Dissolved Oxygen, mg/l: 5

Other: N/A

B. Interim II Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 7

Total Suspended Solids, mg/l: 10

Ammonia Nitrogen, mg/l: 2

Total Phosphorus, mg/l: 0.5

Dissolved Oxygen, mg/l: 6

Other: N/A

C. Final Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 5

Total Suspended Solids, mg/l: 10

Ammonia Nitrogen, mg/l: 2

Total Phosphorus, mg/l: 0.5

Dissolved Oxygen, mg/l: 6

Other: N/A

D. Disinfection Method

Identify the proposed method of disinfection.

☒ Chlorine: 1.0 mg/l after 20 minutes detention time at peak flow

Dechlorination process: Sulfur Dioxide

☐ Ultraviolet Light: Click here to enter text seconds contact time at peak flow

☐ Other: Click here to enter text

Section 4. Design Calculations (Instructions Page 68)

Attach design calculations and plant features for each proposed phase. Example 4 of the instructions includes sample design calculations and plant features.

Attachment: Attachment Q: Design Calculations and Features

Section 5. Facility Site (Instructions Page 68)

A. 100-year floodplain

Will the proposed facilities be located above the 100-year frequency flood level?

Yes ☒ No ☐

If no, describe measures used to protect the facility during a flood event. Include a site map showing the location of the treatment plant within the 100-year frequency flood level. If applicable, provide the size and types of protective structures.

N/A

Provide the source(s) used to determine 100-year frequency flood plain.

FEMA Flood Map Service Center.

For a new or expansion of a facility, will a wetland or part of a wetland be filled?

Yes ☐ No ☒

If yes, has the applicant applied for a US Corps of Engineers 404 Dredge and Fill Permit?

Yes ☐ No ☐

If yes, provide the permit number: N/A

If no, provide the approximate date you anticipate submitting your application to the Corps: N/A

B. Wind rose

Attach a wind rose. **Attachment**: Attachment S: Wind Rose

Section 6. Permit Authorization for Sewage Sludge Disposal (Instructions Page 69)

A. Beneficial use authorization

Are you requesting to include authorization to land apply sewage sludge for

beneficial use on property located adjacent to the wastewater treatment facility under the wastewater permit?

Yes ☐ No ☒

If yes, attach the completed Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451)

Attachment: N/A

B. Sludge processing authorization

Identify the sludge processing, storage or disposal options that will be conducted at the wastewater treatment facility:

☐ Sludge Composting

☐ Marketing and Distribution of sludge

☐ Sludge Surface Disposal or Sludge Monofill

If any of the above sludge options are selected, attach a completed DOMESTIC WASTEWATER PERMIT APPLICATION: SEWAGE SLUDGE TECHNICAL REPORT (TCEQ Form No. 10056).

Attachment: N/A

Section 7. Sewage Sludge Solids Management Plan (Instructions Page 69)

Attach a solids management plan to the application.

Attachment: Attachment R: Solids Management Plan

The sewage sludge solids management plan must contain the following information:

- Treatment units and processes dimensions and capacities
- Solids generated at 100, 75, 50, and 25 percent of design flow
- Mixed liquor suspended solids operating range at design and projected actual flow
- Quantity of solids to be removed and a schedule for solids removal
- Identification and ownership of the ultimate sludge disposal site
- For facultative lagoons, design life calculations, monitoring well locations and depths, and the ultimate disposal method for the sludge from the facultative lagoon

An example of a sewage sludge solids management plan has been included as Example 5 of the instructions.

ATTACHMENT G.

DOMESTIC TECHNICAL WORKSHEET 2.0

DOMESTIC TECHNICAL REPORT WORKSHEET 2.0

RECEIVING WATERS

The following is required for all TPDES permit applications

Section 1. Domestic Drinking Water Supply (Instructions Page 73)

Is there a surface water intake for domestic drinking water supply located within 5 miles downstream from the point or proposed point of discharge?

Yes ☐ No ☒

If yes, provide the following:
Owner of the drinking water supply: N/A

Distance and direction to the intake: N/A

Attach a USGS map that identifies the location of the intake.

Attachment: N/A

Section 2. Discharge into Tidally Affected Waters (Instructions Page 73)

Does the facility discharge into tidally affected waters?

Yes ☐ No ☒

If yes, complete the remainder of this section. If no, proceed to Section 3.

A. Receiving water outfall

Width of the receiving water at the outfall, in feet: N/A

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

Yes ☐ No ☐

If yes, provide the distance and direction from outfall(s).

N/A

C. Sea grasses

Are there any sea grasses within the vicinity of the point of discharge?

Yes ☐ No ☐

If yes, provide the distance and direction from the outfall(s).

N/A

Section 3. Classified Segments (Instructions Page 73)

Is the discharge directly into (or within 300 feet of) a classified segment?

Yes ☐ No ☒

If yes, this Worksheet is complete.

If no, complete Sections 4 and 5 of this Worksheet.

Section 4. Description of Immediate Receiving Waters (Instructions Page 75)

Name of the immediate receiving waters: Discharge enters South Fork Trinity River (Segment 0831A).

A. Receiving water type

Identify the appropriate description of the receiving waters.

☒ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres: Click here to enter text.

Average depth of the entire water body, in feet: Click here to enter text.

Average depth of water body within a 500-foot radius of discharge point, in feet: N/A

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify: Click here to enter text.

B. Flow characteristics

If a stream, man-made channel or ditch was checked above, provide the following. For existing discharges, check one of the following that best characterizes the area *upstream* of the discharge. For new discharges, characterize the area *downstream* of the discharge (check one).

☐ Intermittent - dry for at least one week during most years

☐ Intermittent with Perennial Pools - enduring pools with sufficient habitat to maintain significant aquatic life uses

☒ Perennial - normally flowing

Check the method used to characterize the area upstream (or downstream for new dischargers).

☐ USGS flow records

☐ Historical observation by adjacent landowners

☒ Personal observation

☐ Other, specify: Click here to enter text.

C. Downstream perennial confluences

List the names of all perennial streams that join the receiving water within three miles downstream of the discharge point.

No perennial streams within three miles downstream.

D. Downstream characteristics

Do the receiving water characteristics change within three miles downstream of the discharge (e.g., natural or man-made dams, ponds, reservoirs, etc.)?

Yes ☐ No ☒

If yes, discuss how.

N/A

E. Normal dry weather characteristics

Provide general observations of the water body during normal dry weather conditions.

The stream is perennial and is flowing during normal dry weather conditions.

Date and time of observation: 9:00 am 1/26/2023

Was the water body influenced by stormwater runoff during observations?

Yes ☐ No ☒

Section 5. General Characteristics of the Waterbody (Instructions Page 74)

A. Upstream influences

Is the immediate receiving water upstream of the discharge or proposed discharge site influenced by any of the following? Check all that apply.

- ☐ Oil field activities
- ☐ Urban runoff
- ☐ Upstream discharges
- ☒ Agricultural runoff
- ☐ Septic tanks
- ☐ Other(s), specify Click here to enter text.

B. Waterbody uses

Observed or evidences of the following uses. Check all that apply.

- ☒ Livestock watering
- ☐ Contact recreation
- ☐ Irrigation withdrawal
- ☐ Non-contact recreation
- ☐ Fishing
- ☐ Navigation

☐ Domestic water supply ☐ Industrial water supply

☐ Park activities ☐ Other(s), specify Click here to enter text.

C. Waterbody aesthetics

Check one of the following that best describes the aesthetics of the receiving water and the surrounding area.

☐ Wilderness: outstanding natural beauty; usually wooded or unpastured area; water clarity exceptional

☒ Natural Area: trees and/or native vegetation; some development evident (from fields, pastures, dwellings); water clarity discolored

☐ Common Setting: not offensive; developed but uncluttered; water may be colored or turbid

☐ Offensive: stream does not enhance aesthetics; cluttered; highly developed; dumping areas; water discolored

ATTACHMENT H.

DOMESTIC TECHNICAL WORKSHEET 2.1

DOMESTIC WORKSHEET 2.1

STREAM PHYSICAL CHARACTERISTICS

Required for new applications, major facilities, and applications adding an outfall

Worksheet 2.1 is not required for discharges to intermittent streams or discharges directly to (or within 300 feet of) a classified segment.

Section 1. General Information (Instructions Page 75)

Date of study: 1/26/2023 Time of study: 9:00 AM

Stream name: South Fork Trinity River (Segment 0831A)

Location: Point of discharge location: 32.7404, -97.7221. The point of discharge is approximately 1,575 ft southwest of the intersection of East Bankhead Drive and Trinity River Drive. Discharge flows southwest from the plant site into South Fork Trinity River (Segment 0831A), thence to Clear Fork Trinity River Below Lake Weatherford (Segment 0831).

Type of stream upstream of existing discharge or downstream of proposed discharge (check one).

☒ Perennial ☐ Intermittent with perennial pools

Section 2. Data Collection (Instructions Page 75)

Number of stream bends that are well defined: 6

Number of stream bends that are moderately defined: 3

Number of stream bends that are poorly defined: 0

Number of riffles: 2

Evidence of flow fluctuations (check one):

☒ Minor ☐ moderate ☐ severe

Indicate the observed stream uses and if there is evidence of flow fluctuations or channel obstruction/modification.

The stream has no observed uses. Stream shows minor evidence of flow fluctuations during wet weather flow. Channel does not appear to have been unnaturally obstructed or modified.

Stream transects

In the table below, provide the following information for each transect downstream of the existing or proposed discharges. Use a separate row for each transect.

Table 2.1(1) - Stream Transect Records

Stream type at transect Select riffle, run, glide, or pool. See Instructions, Definitions section.	**Transect location**	**Water surface width (ft)**	**Stream depths (ft)** at 4 to 10 points along each transect from the channel bed to the water surface. Separate the measurements with commas.
run	Transect 1 Stream Discharge Point	21	0.88, 1.58, 1.83, 1.00
run	Transect 2	18	0.67, 0.75, 0.92, 0.75
riffle	Transect 3	39	0.33, 0.71, 0.58, 0.50
run	Transect 4	24	0.38, 0.54, 0.67, 1.17
glide	Transect 5	24	0.88, 2.58, 2.00, 1.92
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			

Section 3. Summarize Measurements (Instructions Page 76)

Streambed slope of entire reach, from USGS map in feet/feet: 3.79x10^-4

Approximate drainage area above the most downstream transect (from USGS map or county highway map, in square miles): 2.18

Length of stream evaluated, in feet: 2640

Number of lateral transects made: 5

Average stream width, in feet: 25.2

Average stream depth, in feet: 1.03

Average stream velocity, in feet/second: 0.79

Instantaneous stream flow, in cubic feet/second: 20.51

Indicate flow measurement method (type of meter, floating chip timed over a fixed distance, etc.): chip timed over a fixed distance

Size of pools (large, small, moderate, none): None

Maximum pool depth, in feet: N/A

ATTACHMENT I.

DOMESTIC TECHNICAL WORKSHEET 6.0

DOMESTIC WORKSHEET 6.0

INDUSTRIAL WASTE CONTRIBUTION

The following is required for all publicly owned treatment works (POTWs)

Section 1. All POTWs (Instructions Page 99)

A. Industrial users

Provide the number of each of the following types of industrial users (IUs) that discharge to your POTW and the daily flows from each user. See the Instructions for definitions of Categorical IUs, Significant IUs – non-categorical, and Other IUs.

If there are no users, enter 0 (zero).

Categorical IUs:

Number of IUs: N/A

Average Daily Flows, in MGD: N/A

Significant IUs – non-categorical:

Number of IUs: N/A

Average Daily Flows, in MGD: N/A

Other IUs:

Number of IUs: N/A

Average Daily Flows, in MGD: N/A

B. Treatment plant interference

In the past three years, has your POTW experienced treatment plant interference (see instructions)?

Yes ☐ No ☐

If yes, identify the dates, duration, description of interference, and probable cause(s) and possible source(s) of each interference event. Include the names of the IUs that may have caused the interference.

N/A

C. Treatment plant pass through

In the past three years, has your POTW experienced pass through (see instructions)?

Yes ☐ No ☐

If yes, identify the dates, duration, a description of the pollutants passing through the treatment plant, and probable cause(s) and possible source(s) of each pass through event. Include the names of the IUs that may have caused pass through.

N/A

D. Pretreatment program

Does your POTW have an approved pretreatment program?

Yes ☐ No ☒

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

Yes ☐ No ☒

If yes, complete Section 2.c. and 2.d. only, and skip Section 3.

If no to either question above, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user.

Section 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 100)

A. Substantial modifications

Have there been any **substantial modifications** to the approved pretreatment program that have not been submitted to the TCEQ for approval according to *40 CFR §403.18*?

Yes ☐ No ☐

If yes, identify the modifications that have not been submitted to TCEQ, including the purpose of the modification.

N/A

B. Non-substantial modifications

Have there been any **non-substantial modifications** to the approved pretreatment program that have not been submitted to TCEQ for review and acceptance?

Yes ☐ No ☐

If yes, identify all non-substantial modifications that have not been submitted to TCEQ, including the purpose of the modification.

N/A

C. Effluent parameters above the MAL

In Table 6.0(1), list all parameters measured above the MAL in the POTW's effluent monitoring during the last three years. Submit an attachment if necessary.

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date

D. Industrial user interruptions

Has any SIU, CIU, or other IU caused or contributed to any problems (excluding interferences or pass throughs) at your POTW in the past three years?

Yes ☐ No ☐

If yes, identify the industry, describe each episode, including dates, duration, description of the problems, and probable pollutants.

N/A

Section 3. Significant Industrial User (SIU) Information and Categorical Industrial User (CIU) (Instructions Page 100)

A. General information

Company Name: N/A

SIC Code: N/A

Telephone number: N/A Fax number: Click here to enter text.

Contact name: N/A

Address: N/A

City, State, and Zip Code: N/A

B. Process information

Describe the industrial processes or other activities that affect or contribute to the SIU(s) or CIU(s) discharge (i.e., process and non-process wastewater).

N/A

C. Product and service information

Provide a description of the principal product(s) or services performed.

N/A

D. Flow rate information

See the Instructions for definitions of "process" and "non-process wastewater."

Process Wastewater:

Discharge, in gallons/day: N/A

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: N/A

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

Is the SIU or CIU subject to technically based local limits as defined in the instructions?

Yes ☐ No ☐

Is the SIU or CIU subject to categorical pretreatment standards found in *40 CFR Parts 405-471*?

Yes ☐ No ☐

If subject to categorical pretreatment standards, indicate the applicable category and subcategory for each categorical process.

Category: N/A
Subcategories: N/A

Category: N/A
Subcategories: N/A

Category: N/A
Subcategories: N/A

Category: N/A
Subcategories: N/A

Category: N/A
Subcategories: N/A

F. Industrial user interruptions

Has the SIU or CIU caused or contributed to any problems (e.g., interferences, pass through, odors, corrosion, blockages) at your POTW in the past three years?

Yes ☐ No ☐

If yes, identify the SIU, describe each episode, including dates, duration, description of problems, and probable pollutants.

N/A

ATTACHMENT J.

ORIGINAL USGS MAPS

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

USGS science for a changing world

The National Map US Topo

ANNETTA QUADRANGLE
TEXAS - PARKER COUNTY
7.5-MINUTE SERIES

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Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid:Universal Transverse Mercator, Zone 14S
This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery	NAIP, October 2016 - November 2016	
Roads	U.S. Census Bureau, 2015 -	2018
Names	GNIS, 1979 -	2018
Hydrography	National Hydrography Dataset, 2000 -	2018
Contours	National Elevation Dataset, 2004 -	2017
Boundaries	Multiple sources; see metadata file 2016 -	2017
Wetlands	FWS National Wetlands Inventory	1981

UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET
MN GN 3°40' 65 MILS 0°43' 13 MILS

U.S. National Grid
100,000 - m Square ID
PB
Grid Zone Designation 14S

SCALE 1:24 000
1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 MILES 1
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011.
A metadata file associated with this product is draft version 0.6.18

TEXAS
QUADRANGLE LOCATION

ADJOINING QUADRANGLES
1 Weatherford North
2 Lake Weatherford
3 Springtown SE
4 Weatherford South
5 Aledo
6 Tin Top
7 Chapin
8 Cresson

ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

ANNETTA, TX
2019

Kimley»Horn

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U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

USGS science for a changing world

The National Map US Topo

LAKE WEATHERFORD QUADRANGLE
TEXAS - PARKER COUNTY
7.5-MINUTE SERIES

-97.7500° 617000mE -97.6250°
32.8750° 3638000mN 32.8750°

APPLICANT SERVICE AREA

1 MILE RADIUS

WEATHERFORD

Punkin Center

Hudson Oaks

Willow Park

Wampler

Lake Weatherford

Parker County Airport

Bethel Cem
Clark Cem
Wright Cem
Simmons Cem
Turner Cem
Wampler Cem

Cross Wind Airport

Reservoir Number Sixteen
Reservoir Number Seventeen
Reservoir Number Eighteen
Reservoir Number Nineteen
Reservoir Number Twentyone
Reservoir Number Twentytwo A
Reservoir Number Thirty

McKnight Br
Patton Br
Dobbs Br
Rankin Br
Barnett Br
Green Br
Holder Br
Underwood Br
Indian Cr
Hays Br
Silver Cr
Little Silver Cr
Squaw Cr
Marys Cr
Clear Fork Trinity River

N FM 51
WELAND RD
DILL RD
TEJAS RD
BROWN CREEK RD
BLUE BIRD RD
OLD SPRINGTOWN RD
FRIENDSHIP RD
DENTON HEIGHTS LN
UPPER DENTON RD
DEER VALLEY RD
KABBO LN
CAT TRACK RD
HEATHER RIDGE CT
VEAL STATION RD
MARY DR
JAMES C RD
DEER TRACK RD
WRIGHT LN
TUCKER DR
EDGEHILL DR
CEDAR CREEK CT
SCENERY HILL DR
CEDAR CREEK DR
E SHANGRI LA DR
W SHANGRI LA DR
CHUCKWAGON TRL
WHIPPORWILL TRL
WILDWOOD TRL
PERDUE CIR
ROCKY RIDGE LN
EMBERS LN
N LAKE DR
WELLS LN
GREEN BRANCH RD
ARMADILLO DR
CANYON COUNTRY DR
GRACE LN
TIMBER TRL
HINKLE LN
FM 1886
HIGH RIDGE DR
VALLEY VIEW DR
REARSON RANCH RD
RAGLE RD
E LAKE DR
TRAILWOOD DR
HAYLEY DR
ELK HOLLOW LN
RAMBLING TRL
RAMBLING TRL S E
RAMBLING LOOP
CORONADO TRL
LAKEVIEW TER
W LAKE DR
Quanah Hill Eulit Loop
HILL TOP CIR
SANDSTONE LN
WHITE SETTLEMENT RD
RIDGE RD
VALLEY RD
INDIAN CAMP RD
CORONADO CT
COOK RD
COOK CT
EMSLEY DR
VISTA DR
BUENA VISTA DR
LIVE OAK RD
JANE LN
LAKE DR
GAIL DR
VALLEY LN
SILVERSTONE DR
SONORA CANYON RD
YUCCA TRL
WOODCREST ST
SLEEPY FOOT TRL
SADDLE RIDGE TRL
N OAKRIDGE DR
OLD FOUNDRY RD
MEADOWVIEW RD
OLD DICEY RD
SUZANNE TRL
RED EAGLE TRL
LAKEWAY DR
FOOT HILLS DR
CLIFF VW LP
FOUR TREES DR
STAGE COACH TRL
BLUEBONNET CIR
LAKESHORE DR
N OAK RIDGE DR
GARDNER RD
CIMMARON RD
INSPIRATION DR
OYKEY TRL
WALLEY TRAIL DR
CRESTVIEW DR
WINFIELD DR
FOREST PARK DR
CANYON TRAIL RD
RED BUD DR
ARROYO DR
MAVIS RD
CROWN RD
CROWN VALLEY DR
VERDE RD
YUCCA RD
ROYAL VIEW DR
QUEENSWAY RD
KINGS GATE RD
SQUAW CREEK RD
LOCKHEED
REGENT ROW
LORI DR
PARKWAY DR
WILLOW CREST DR
FAIRWAY DR
WHITE SETTLEMENT RD
OTTO RD
CENTER POINT RD
WOOD AVE
HANCOCK DR
SVC RD
RAVEN BEND
S LAKESHORE DR
U 20 SVC RD
OAK HILL DR
PEARSON RANCH RD

180
20

G1840099B

-97.7500° 18 19 20 21 22 23 24 25 26 27 28 -97.6250°
32.7500° 32.7500°

Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
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3°40' 65 MILS
0°43' 13 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
PB
Grid Zone Designation 14S

SCALE 1:24 000
1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 MILES 1
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 FEET

CONTOUR INTERVAL 10 FEET
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A metadata file associated with this product is draft version 0.6.18

TEXAS
QUADRANGLE LOCATION

1	2	3
4		5
6	7	8

ADJOINING QUADRANGLES
1 Poolville
2 Springtown
3 Azle
4 Weatherford North
5 Springtown SE
6 Weatherford South
7 Annetta
8 Aledo

ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

LAKE WEATHERFORD, TX
2019

Kimley»Horn

CITY OF HUDSON OAKS WASTEWATER TREATMENT PLANT DOMESTIC WASTEWATER PERMIT USGS MAP 2

DATE: MARCH 2023
DESIGN: RED
DRAWN: AP
CHECKED: KPK
KHA NO: 064570603

00083

ATTACHMENT K.

AFFECTED LANDOWNERS MAP

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Kimley»Horn

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ATTACHMENT L.

LANDOWNER LIST AND LABELS

Parcel-Landowner
Table

Parcel #	Landowner	Mailing Address
1	RAMOS, BERNARDO & TORRES, VERNALDINA	3952 RIVER VIEW CT HUDSON OAKS, TX 76087-3403
2	MICHELETTI, RHETT G	3505 WILLIAMS RD FORT WORTH TX, 76116-7029
3	HAWKINS, GINA	4004 KELLY CT WEATHERFORD, TX 76087-8354
4	GARCIA, DAVID ORTEGA & YESENIA	4005 KELLY CT WEATHERFORD, TX 76087-8354
5	WARD, DUSTY & SOIBHAN	4010 E BANKHEAD HWY WEATHERFORD, TX 76087-9586
6	TYRE, RICHARD DEWEY & LORI, KAYE	4006 E BANKHEAD HWY WEATHERFORD, TX 76087-9586
7	ALANIS, ANGELA & J REYES	1747 BREEDER CUP WAY EL PASO, TX 79928-2275
8	HARRISON, NAOMI MARIE	PO BOX 75 DENNIS, TX 76439-0075
9	LAVITE, ANTHONY JR	3716 E BANKHEAD HWY HUDSON OAKS, TX 76087-9580
10	CUNDIFF, RICKY C	1403 CENTER POINT RD WEATHERFORD, TX 76087-9299
11	DAVESTATES	PO BOX 122269 FORT WORTH, TX 76121-2269
12	JOHNSON, CORD & CASSIE	1677 CENTER POINT ROAD WEATHERFORD, TX 76087-9103
13	DAVOIL INC DBA DAVESTATES	6300 RIDGLEA PL SUITE 1208 FORT WORTH, TX 76116-5738
14	WARVELL, SONNA	PO BOX 1660 WEATHERFORD, TX 76087-7660
15	2016 FLOYD REVOCABLE TRUST	1905 CENTER POINT RD WEATHERFORD, TX 76087-9109

RAMOS, BERNANRDO & TORRES, VERNALDINA
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WEATHERFORD, TX 76087-8354

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WEATHERFORD, TX 76087-9103

DAVOIL INC DBA DAVESTATES
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FORT WORTH, TX 76116-5738

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2016 FLOYD REVOCABLE TRUST
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HAWKINS, GINA
4004 KELLY CT
WEATHERFORD, TX 76087-8354

GARCIA, DAVID ORTEGA & YESENIA
4005 KELLY CT
WEATHERFORD, TX 76087-8354

WARD, DUSTY & SOIBHAN
4010 E BANKHEAD HWY
WEATHERFORD, TX 76087-9586

TYRE, RICHARD DEWEY & LORI, KAYE
4006 E BANKHEAD HWY WEATHERFORD, TX 76087-9586

ALANIS, ANGELA & J REYES
1747 BREEDER CUP WAY EL PASO, TX 79928-2275

HARRISON, NAOMI MARIE
PO BOX 75
DENNIS, TX 76439-0075

LAVITE, ANTHONY JR
3716 E BANKHEAD HWY
HUDSON OAKS, TX 76087-9580

CUNDIFF, RICKY C
1403 CENTER POINT RD
WEATHERFORD, TX 76087-9299

DAVESTATES
PO BOX 122269
FORT WORTH, TX 76121-2269

JOHNSON, CORD & CASSIE
1677 CENTER POINT ROAD
WEATHERFORD, TX 76087-9103

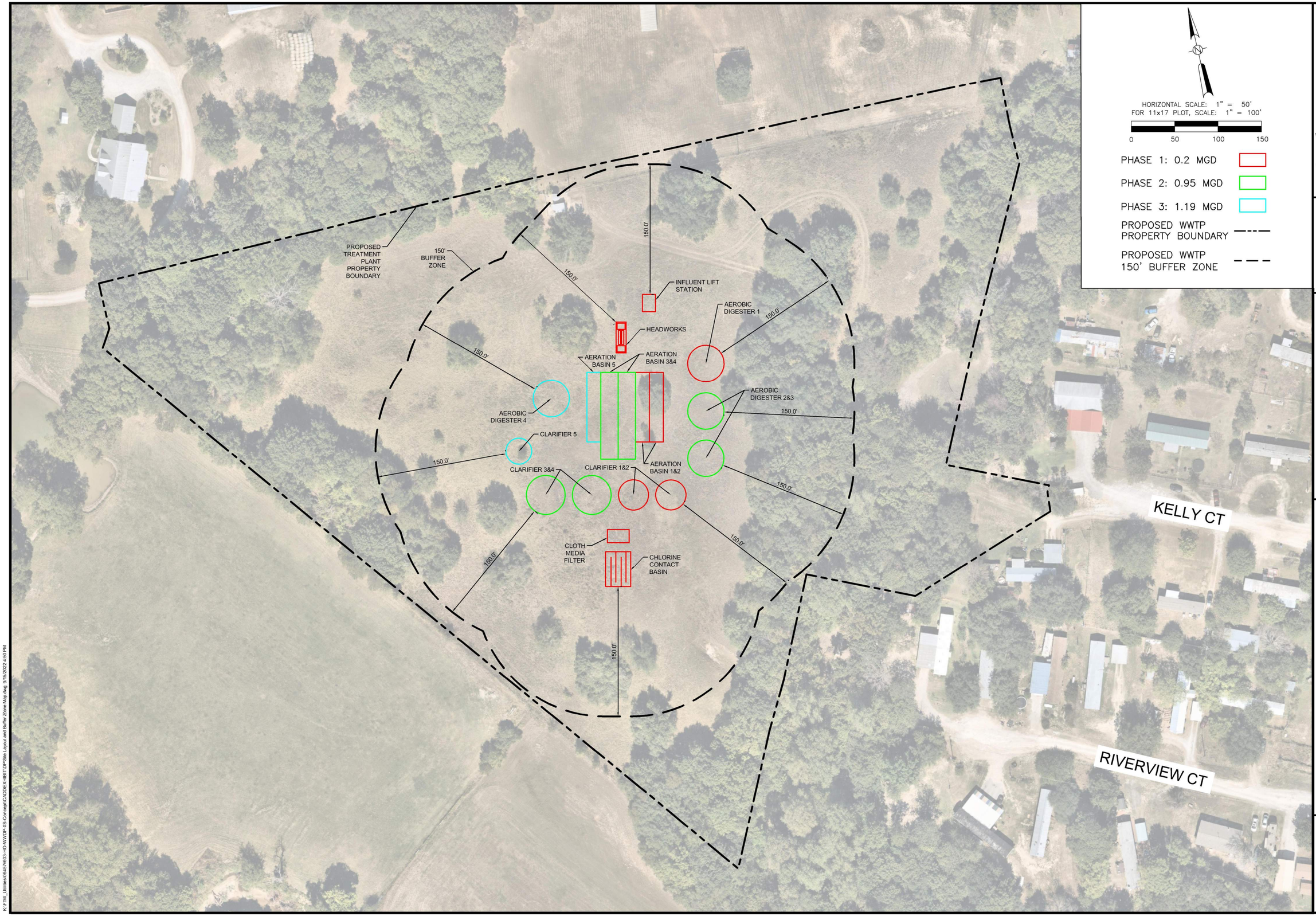
DAVOIL INC DBA DAVESTATES
6300 RIDGLEA PL SUITE 1208
FORT WORTH, TX 76116-5738

WARVELL, SONNA
PO BOX 1660
WEATHERFORD, TX 76087-7660

2016 FLOYD REVOCABLE TRUST
1905 CENTER POINT RD WEATHERFORD, TX 76087-9109

ATTACHMENT M.

BUFFER ZONE MAP



HORIZONTAL SCALE: 1" = 50'
FOR 11x17 PLOT, SCALE: 1" = 100'

0 50 100 150

PHASE 1: 0.2 MGD

PHASE 2: 0.95 MGD

PHASE 3: 1.19 MGD

PROPOSED WWTP PROPERTY BOUNDARY

PROPOSED WWTP 150' BUFFER ZONE

Kimley»Horn
801 Cherry St., Suite 1300, Unit 11 Ft. Worth, TX 76102 P: 817-335-6511
TBPE No. 928 F: 817-335-3070

No.	Revision	By	Date

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KYLE P. KUBISTA
SERIAL NO. 121644
DATE: MARCH 2023

HUDSON OAKS WASTEWATER TREATMENT PLANT

BUFFER ZONE MAP

DATE:	MARCH 2023
DESIGN:	RED
DRAWN:	AP
CHECKED:	KPK
KHA NO.:	064570803

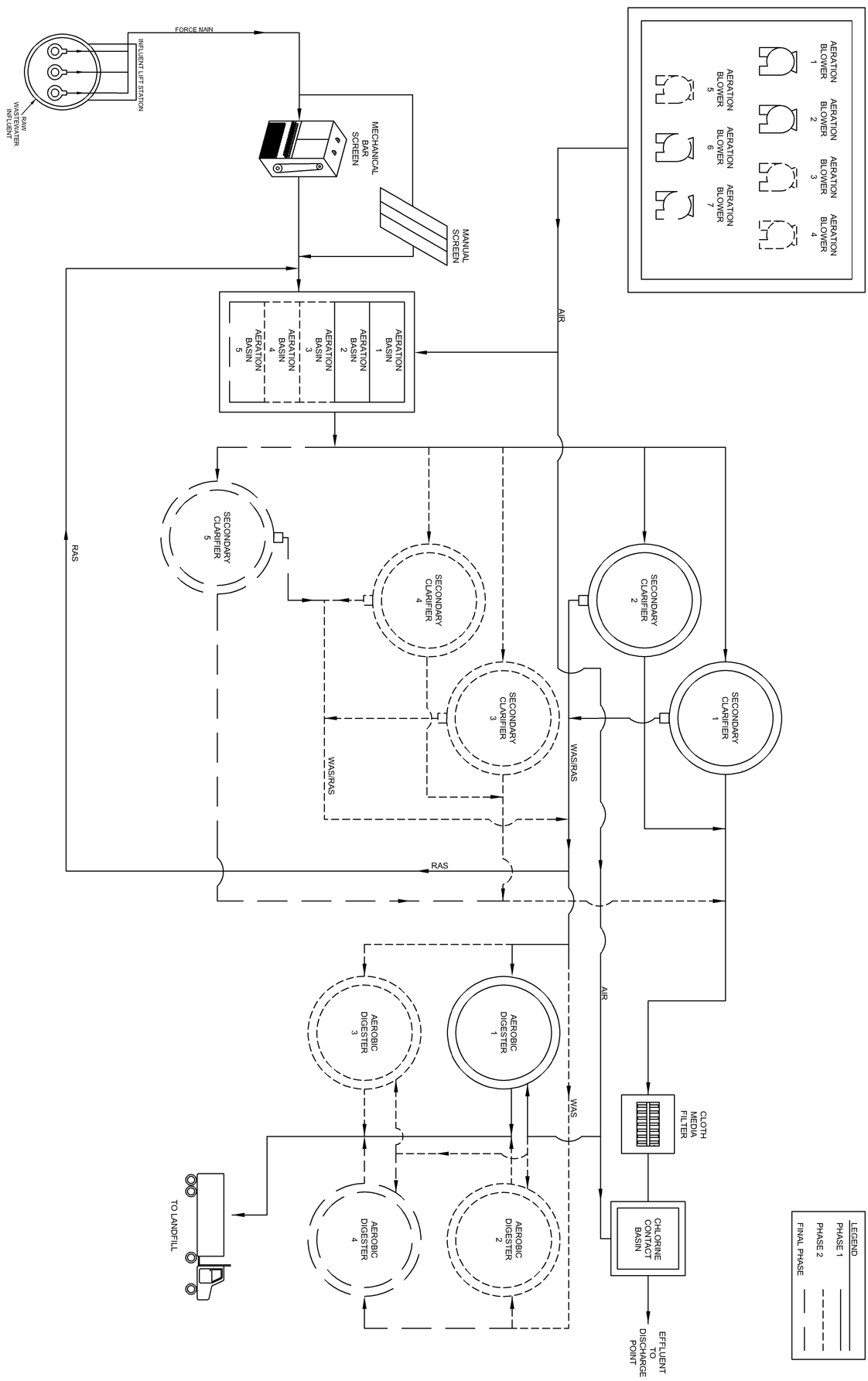
00093

K:\FTW_Utilities\064570803-HO-WWDP-0S-Concept\CADD\EXHIBIT\DP\Site Layout and Buffer Zone Map.dwg 9/15/2022 4:50 PM

ATTACHMENT N.

PROCESS FLOW DIAGRAM

K:\FTW_Utilities\064576603-HO-WWDP-0S-Concept\CADD\EXHIBIT\DP\Process Flow Diagram. dwg 9/15/2022 4:50 PM



DATE:	MARCH 2023
DESIGN:	RED
DRAWN:	AP
CHECKED:	KPK
KHA NO.:	064570603

PROCESS FLOW DIAGRAM

HUDSON OAKS WASTEWATER TREATMENT PLANT

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KYLE, P KUBISTA
SERIAL NO. 121644
DATE: MARCH 2023

Kimley»Horn
801 Cherry St., Suite 1300, Unit 11 Ft. Worth, TX 76102 P: 817-335-6511
TBPE No. 928 F: 817-335-5070

No.	Revision	By	Date

60000

ATTACHMENT O.

SITE DRAWING

AZLE HWY

N OAKRIDGE DR

FORT WORTH HWY

INTERSTATE 20

CITY OF HUDSON OAKS
SEWER CCN

11.75 ACRE WASTEWATER TREATMENT PLANT
PROPERTY BOUNDARY

INTERSTATE 20

HORIZONTAL SCALE: 1" = 1000'
FOR 11x17 PLOT, SCALE: 1" = 2000'

0 1000 2000 3000

Kimley»Horn
801 Cherry St., Suite 1300, Unit 11 Ft. Worth, TX 76102 P: 817-335-6511
TBPE No. 928 F: 817-335-3070

No.	Revision	By	Date

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KYLE P. KUBISTA
SERIAL NO. 121644
DATE: MARCH 2023

HUDSON OAKS WASTEWATER TREATMENT PLANT

SITE DRAWING

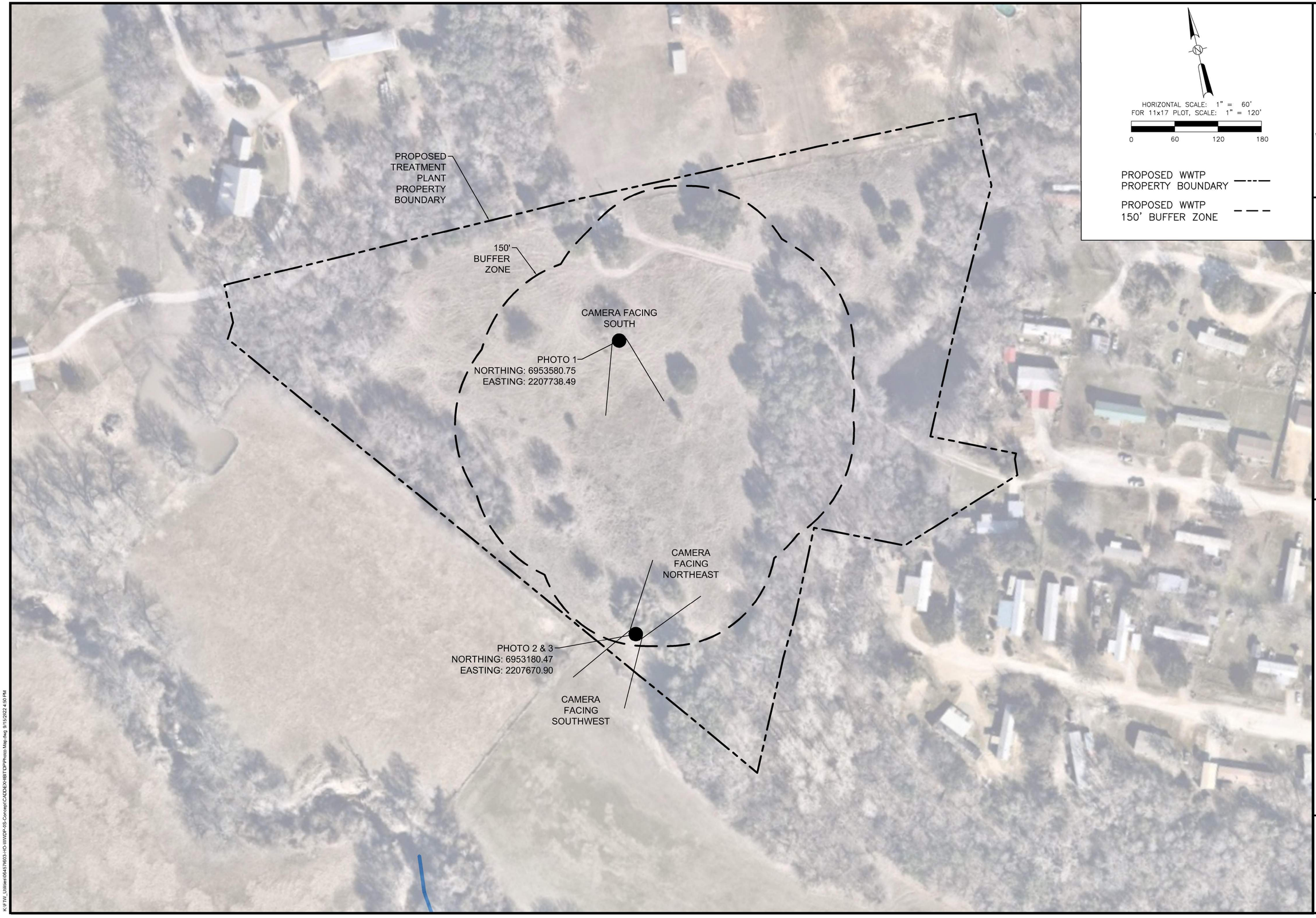
DATE:	MARCH 2023
DESIGN:	RED
DRAWN:	AP
CHECKED:	KPK
KHA NO.:	064570603

00097

K:\FTW_Utilities\064570603-HO-WWDP-XS-Concept\CADD\EXHIBIT\DP\Site Drawing.dwg 9/15/2022 4:50 PM

ATTACHMENT P.

ORIGINAL PHOTOGRAPHS AND PLOT PLAN



HORIZONTAL SCALE: 1" = 60'
FOR 11x17 PLOT, SCALE: 1" = 120'

0 60 120 180

PROPOSED WWTP PROPERTY BOUNDARY

PROPOSED WWTP 150' BUFFER ZONE

Kimley»Horn
801 Cherry St., Suite 1300, Unit 11 Ft. Worth, TX 76102 P: 817-335-6511
TBPE No. 928 F: 817-335-2070

No.	Revision	By	Date

THIS DOCUMENT IS INCOMPLETE AND IS RELEASED TEMPORARILY FOR REVIEW PURPOSES. IT IS NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES.

KYLE P. KUBISTA
SERIAL NO. 121644
DATE: MARCH 2023

HUDSON OAKS WASTEWATER TREATMENT PLANT

PHOTO MAP

DATE:	MARCH 2023
DESIGN:	RED
DRAWN:	AP
CHECKED:	KPK
KHA NO.:	064570603

00099

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Photo 1: Proposed Wastewater Treatment Plant Location

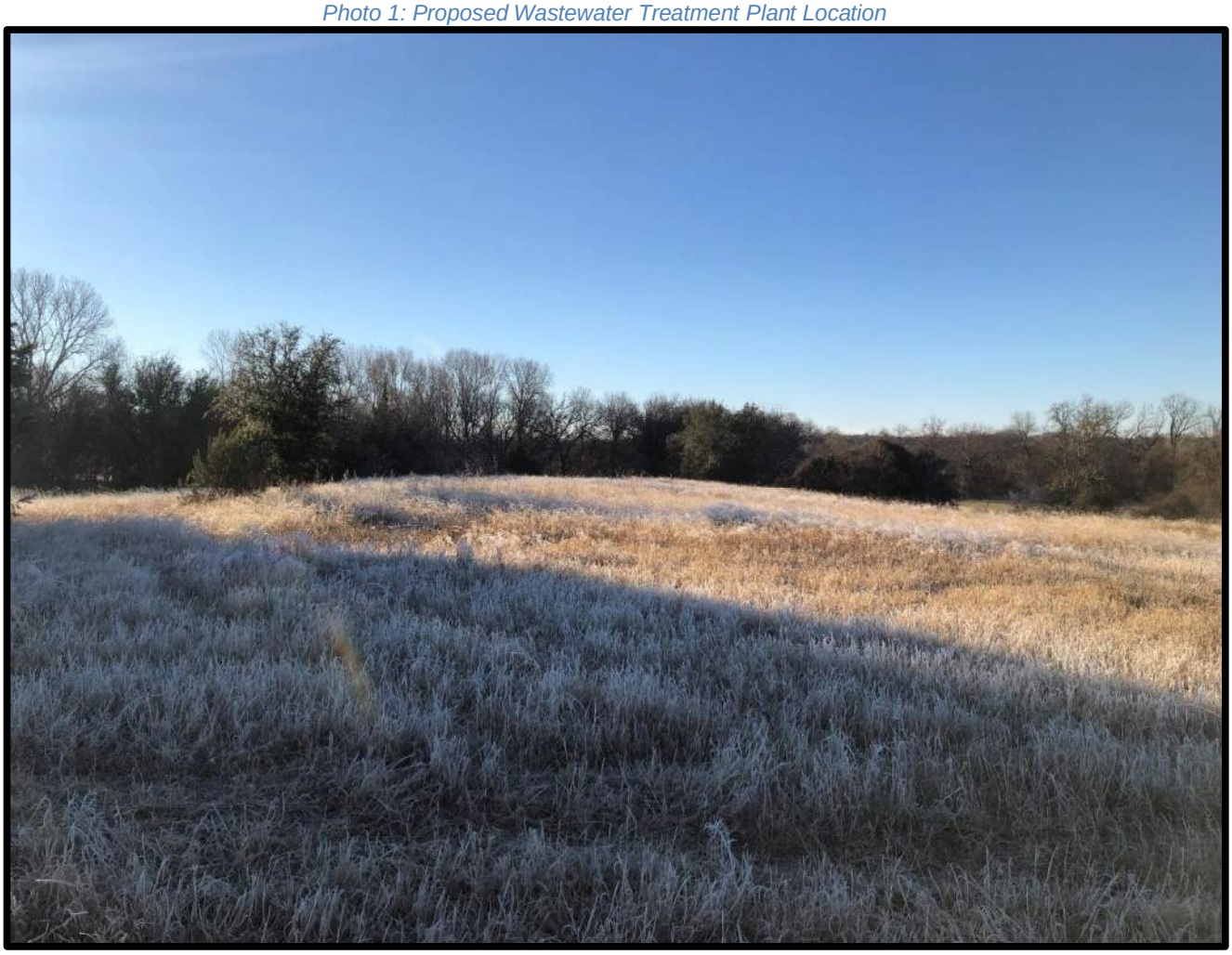


Photo 2: Proposed Plant Discharge Point and Downstream Area (Camera Facing Southwest)

Photo 3: Proposed Plant Discharge Point and Upstream Area (Camera Facing Northeast)

ATTACHMENT Q.

DESIGN CALCULATIONS AND FEATURES

Phase 1		
RAS		
**Design to maintain MLSS concentration in aeration basin between 4,000 mg/L and 10,000 mg/L*		
**Calculate RAS rate by usign a mass balance of the aeration tank*		
Influent Design Flow Rate to Aeration Tank (Q_O)	0.2	MGD
Influent Peak Flow Rate to Aeration Tank (Q_{PEAK})	0.8	MGD
Mixed Liquor Suspended Solids (X)	4,000	mg/L
Return Activated Sludge Suspended Solids (X_R)	12,000	mg/L
Return Sludge Flow at Design Flow (RAS)	0.1	MGD
Return Sludge Flow at Peak Flow (RAS)	0.4	MGD
Aeration Basins		
Design Flow for Aeration Basins	0.3	MGD
Design Sludge Retention Time (θ_A)	10.5	days
Organic Loading Rate	35	lbBOD5/d/1,000 ft3
Required Minimum Volume	*14,297*	*ft^3*
Number of Aeration Basins to Add	2	
Aeration Basin Length	80	ft
Aeration Basin Width	16	ft
Side Water Depth of Aeration Basin	16	ft
Total Provided Aeration Basin Volume	40,960	ft^3
Aeration Basin in Service with Largest Length	80	ft
Largest Aeration Basin's Side Water Depth	16.0	ft
Total Aeration Basin Volume with Largest AB out of Service (V_R)	20,480	ft^3
Calculated Oxygen Required	1.63	lbs O_2 / lb BOD_5
Oxygen Requirement (O_2R)	2.2	lbs O_2 / lb BOD_5
Calculated Air Flowrate	345	scfm
Clean Water Transfer Efficiency	0.18	
Clean water transfer efficiency adjustment based on diffuser	0.65	
Diffuser Submergence Correction Factor	0.91	
WAS		
**Design based on wasting from RAS line*		
Provided Aeration Basin Volume (V_R)	0.306	Mgal
Waste Sludge Flowrate from Aeration Basin, Average Flow	0.009726375	MGD
Daily Sludge Production Rate	83,552	lb/d
Aerobic Digester		
% of Volatile Solids (%VS)	70%	
% Volatile Solids Destroyed in Digestion (%VSD)	40%	
MLSS Concentration	20,000	mg/L
Minimum Solids Retention Time (SRT)	40	days
Solids Loading	0.2	lb VSS/ft^3-d
Digester Percent Solids	2%	
Mass of Influent Solids	500	ppd
Mass of Digested Solids	360	ppd
Average Solids in Digester	430	ppd
Total Solids in Digester Based on SRT	17,214	lb
Minimum Required Digester Volume	*13,797*	*ft^3*

Number of Digester Basins to Add			1	
Digester Basins Diameter			42	ft
Side Water Depth			16	ft
Digester Basin Volume to Add			22,167	ft^3
Digester Basin Volume to Add			165,810	gal
Total Digester Basin Volume			22,167	ft^3
% Volatile Solids Destroyed in Digestion (%VSD)			40%	
Total Mass Reduced			140	lb VSS red/day
Oxidation of VSS			2.3	lb O_2/lb VSS
Oxygen Required			145	kg O_2/day
Density of Air			1.204	kg/m^3 @ 20° C
Volume of Air Required per Day			519	m^3 air/day
Oxygen Transfer Efficiency			10%	
Air Flow Rate			3.6	m^3/min
Air Loading			42.9	ft^3/min*1000ft^3
Solids Generated	100% Flow	75% Flow	50% Flow	25% Flow
Pounds Influent BOD_5 (lb/d)	500	375	250	125
Pounds of Digested Dry Sludge Produced (lb/d)	360	270	180	90
Pounds of Wet Sludge Produced (lb/d)	18,014	13,511	9,007	4,504
Gallons of Wet Sludge Produced (gpd)	2,160	1,620	1,080	540
Clarifier				
Maximum Overflow Rate @ Peak Flow			1,200	gal/day/ft^2
Minimum Detention Time @ Peak Flow			1.8	hours
Maximum Weir Loading			20,000	gal/day/ft
Minimum Required Surface Area (Overflow)			*667*	*ft^2*
Minimum required Surface Area (Detention Time)			*668*	*ft^2*
Minimum Required Weir Length			*40*	*ft*
Number of Clarifiers to Add			2	
Clarifier Diameter			35	ft
Side Water Depth of Clarifier			12	ft
Total Weir Length			220	ft
Total Clarifier Surface Area			1,924	ft^2
Total Clarifier Volume			23,091	ft^3
Clarifier in Service with Largest Diameter			35	ft
Side Water Depth of Largest Clarifier			12	ft
Total Surface Area with Largest Clarifier out of Service			962	ft^2
Total Weir Length with Largest Clarifier out of Service			110	ft
Total Volume with Largest Clarifier out of Service			11,545	ft^3
Detention Time @ Peak Flow w/ largest clarifier out of service			2.5908	hours
Chlorine Contact Basin				
Minimum Detention Time at Peak Flow			20	min
Number of Parallel Channels			5	
Width of Channel			5	ft
Depth			12	ft
Length			40	ft
Volume			12000	ft^3
Detention Time			161.568	min

Phase 2		
RAS		
**Design to maintain MLSS concentration in aeration basin between 4,000 mg/L and 10,000 mg/L*		
**Calculate RAS rate by usign a mass balance of the aeration tank*		
Influent Design Flow Rate to Aeration Tank (Q_O)	0.95	MGD
Influent Peak Flow Rate to Aeration Tank (Q_{PEAK})	3.8	MGD
Mixed Liquor Suspended Solids (X)	4,000	mg/L
Return Activated Sludge Suspended Solids (X_R)	12,000	mg/L
Return Sludge Flow at Design Flow (RAS)	0.475	MGD
Return Sludge Flow at Peak Flow (RAS)	1.9	MGD
Aeration Basins		
Design Flow for Aeration Basins	1.425	MGD
Design Sludge Retention Time (θ_A)	10.5	days
Organic Loading Rate	35	lbBOD5/d/1,000 ft3
Required Minimum Volume	*67,911*	*ft^3*
Number of Aeration Basins to Add	2	
Aeration Basin Length	100	ft
Aeration Basin Width	20	ft
Side Water Depth of Aeration Basin	16	ft
Total Provided Aeration Basin Volume (V_R)	104,960	ft^3
Aeration Basin in Service with Largest Length	100	ft
Largest Aeration Basin's Side Water Depth	16.0	ft
Total Aeration Basin Volume with Largest AB out of Service (V_R)	72,960	ft^3
Calculated Oxygen Required	1.63	lbs O_2 / lb BOD_5
Oxygen Requirement (O_2R)	2.2	lbs O_2 / lb BOD_5
Calculated Air Flowrate	1,637	scfm
Clean Water Transfer Efficiency	0.18	
Clean water transfer efficiency adjustment based on diffuser	0.65	
Diffuser Submergence Correction Factor	0.91	
WAS		
**Design based on wasting from RAS line*		
Provided Aeration Basin Volume (V_R)	0.785	Mgal
Waste Sludge Flowrate from Aeration Basin, Average Flow	0.024923835	MGD
Daily Sludge Production Rate	214,101	lb/d
Aerobic Digester		
% of Volatile Solids (%VS)	70%	
% Volatile Solids Destroyed in Digestion (%VSD)	40%	
MLSS Concentration	20,000	mg/L
Minimum Solids Retention Time (SRT)	40	days
Solids Loading	0.2	lb VSS/ft^3-d
Digester Percent Solids	2%	
Mass of Influent Solids	2,377	ppd
Mass of Digested Solids	1,711	ppd
Average Solids in Digester	2,044	ppd
Total Solids in Digester Based on SRT	81,765	lb
Minimum Required Digester Volume	*65,535*	*ft^3*

Number of Digester Basins to Add			2	
Digester Basins Diameter			42	ft
Side Water Depth			16	ft
Digester Basin Volume to Add			44,334	ft^3
Digester Basin Volume to Add			331,619	gal
Total Digester Basin Volume			66,501	ft^3
% Volatile Solids Destroyed in Digestion (%VSD)			40%	
Total Mass Reduced			666	lb VSS red/day
Oxidation of VSS			2.3	kg O_2/kg VSS
Oxygen Required			689	kg O_2/day
Density of Air			1.204	kg/m^3 @ 20° C
Volume of Air Required per Day			2466	m^3 air/day
Oxygen Transfer Efficiency			10%	
Air Flow Rate			17.1	m^3/min
Air Loading			102.0	ft^3/min*1000ft^3
Solids Generated	100% Flow	75% Flow	50% Flow	25% Flow
Pounds Influent BOD_5 (lb/d)	2,377	1,783	1,188	594
Pounds of Digested Dry Sludge Produced (lb/d)	1,711	1,284	856	428
Pounds of Wet Sludge Produced (lb/d)	85,568	64,176	42,784	21,392
Gallons of Wet Sludge Produced (gpd)	10,260	7,695	5,130	2,565
Clarifier				
Maximum Overflow Rate @ Peak Flow			1,200	gal/day/ft^2
Minimum Detention Time @ Peak Flow			1.8	hours
Maximum Weir Loading			20,000	gal/day/ft
Minimum Required Surface Area (Overflow)			*3,167*	*ft^2*
Minimum required Surface Area (Detention Time)			*3,175*	*ft^2*
Minimum Required Weir Length			*190*	*ft*
Number of Clarifiers to Add			2	
Clarifier Diameter			45	ft
Side Water Depth of Clarifier			12	ft
Total Weir Length			503	ft
Total Clarifier Surface Area			5,105	ft^2
Total Clarifier Volume			61,261	ft^3
Clarifier in Service with Largest Diameter			45	ft
Side Water Depth of Largest Clarifier			12	ft
Total Surface Area with Largest Clarifier out of Service			3,515	ft^2
Total Weir Length with Largest Clarifier out of Service			361	ft
Total Volume with Largest Clarifier out of Service			42,176	ft^3
Detention Time @ Peak Flow w/ largest clarifier out of service			1.9925	hours
Chlorine Contact Basin				
Minimum Detention Time at Peak Flow			20	min
Number of Parallel Channels			0	
Width of Channel			0	ft
Depth			0	ft
Length			0	ft
Volume			12000	ft^3
Detention Time			34.01431579	min

Phase 3		
RAS		
**Design to maintain MLSS concentration in aeration basin between 4,000 mg/L and 10,000 mg/L*		
**Calculate RAS rate by usign a mass balance of the aeration tank*		
Influent Design Flow Rate to Aeration Tank (Q_O)	1.19	MGD
Influent Peak Flow Rate to Aeration Tank (Q_{PEAK})	4.76	MGD
Mixed Liquor Suspended Solids (X)	4,000	mg/L
Return Activated Sludge Suspended Solids (X_R)	12,000	mg/L
Return Sludge Flow at Design Flow (RAS)	0.595	MGD
Return Sludge Flow at Peak Flow (RAS)	2.38	MGD
Aeration Basins		
Design Flow for Aeration Basins	1.785	MGD
Design Sludge Retention Time (θ_A)	10.5	days
Organic Loading Rate	35	lbBOD5/d/1,000 ft3
Required Minimum Volume	*85,068*	*ft^3*
Number of Aeration Basins to Add	1	
Aeration Basin Length	80	ft
Aeration Basin Width	16	ft
Side Water Depth of Aeration Basin	16	ft
Total Provided Aeration Basin Volume (V_R)	125,440	ft^3
Aeration Basin in Service with Largest Length	100	ft
Largest Aeration Basin's Side Water Depth	16.0	ft
Total Aeration Basin Volume with Largest AB out of Service (V_R)	93,440	ft^3
Calculated Oxygen Required	1.63	lbs O_2 / lb BOD_5
Oxygen Requirement (O_2R)	2.2	lbs O_2 / lb BOD_5
Calculated Air Flowrate	2,051	scfm
Clean Water Transfer Efficiency	0.18	
Clean water transfer efficiency adjustment based on diffuser	0.65	
Diffuser Submergence Correction Factor	0.91	
WAS		
**Design based on wasting from RAS line*		
Provided Aeration Basin Volume (V_R)	0.938	Mgal
Waste Sludge Flowrate from Aeration Basin, Average Flow	0.029787022	MGD
Daily Sludge Production Rate	255,876	lb/d
Aerobic Digester		
% of Volatile Solids (%VS)	70%	
% Volatile Solids Destroyed in Digestion (%VSD)	40%	
MLSS Concentration	20,000	mg/L
Minimum Solids Retention Time (SRT)	40	days
Solids Loading	0.2	lb VSS/ft^3-d
Digester Percent Solids	2%	
Mass of Influent Solids	2,977	ppd
Mass of Digested Solids	2,144	ppd
Average Solids in Digester	2,561	ppd
Total Solids in Digester Based on SRT	102,422	lb
Minimum Required Digester Volume	*82,091*	*ft^3*
Number of Digester Basins to Add	1	
Digester Basins Diameter	42	ft
Side Water Depth	16	ft
Digester Basin Volume to Add	22,167	ft^3

Digester Basin Volume to Add			165,810	gal
Total Digester Basin Volume			88,668	ft^3
% Volatile Solids Destroyed in Digestion (%VSD)			40%	
Total Mass Reduced			834	lb VSS red/day
Oxidation of VSS			2.3	kg O_2/kg VSS
Oxygen Required			863	kg O_2/day
Density of Air			1.204	kg/m^3 @ 20° C
Volume of Air Required per Day			3089	m^3 air/day
Oxygen Transfer Efficiency			10%	
Air Flow Rate			21.5	m^3/min
Air Loading			255.5	ft^3/min*1000ft^3
Solids Generated	100% Flow	75% Flow	50% Flow	25% Flow
Pounds Influent BOD_5 (lb/d)	2,977	2,233	1,489	744
Pounds of Digested Dry Sludge Produced (lb/d)	2,144	1,608	1,072	536
Pounds of Wet Sludge Produced (lb/d)	107,186	80,389	53,593	26,796
Gallons of Wet Sludge Produced (gpd)	12,852	9,639	6,426	3,213
Clarifier				
Maximum Overflow Rate @ Peak Flow			1,200	gal/day/ft^2
Minimum Detention Time @ Peak Flow			1.8	hours
Maximum Weir Loading			20,000	gal/day/ft
Minimum Required Surface Area (Overflow)			*3,967*	*ft^2*
Minimum required Surface Area (Detention Time)			*3,977*	*ft^2*
Minimum Required Weir Length			*238*	*ft*
Number of Clarifiers to Add			1	
Clarifier Diameter			30	ft
Side Water Depth of Clarifier			12	ft
Total Weir Length			597	ft
Total Clarifier Surface Area			5,812	ft^2
Total Clarifier Volume			69,743	ft^3
Clarifier in Service with Largest Diameter			45	ft
Side Water Depth of Largest Clarifier			12	ft
Total Surface Area with Largest Clarifier out of Service			4,222	ft^2
Total Weir Length with Largest Clarifier out of Service			456	ft
Total Volume with Largest Clarifier out of Service			50,658	ft^3
Detention Time @ Peak Flow w/ largest clarifier out of service			1.9105	hours
Chlorine Contact Basin				
Minimum Detention Time at Peak Flow			20	min
Number of Parallel Channels			0	ft
Width of Channel			0	
Depth			0	ft
Length			0	ft
Volume			12000	ft^3
Detention Time			27.15428571	min

Hudson Oaks Wastewater Treatment Plant
Design Features

1. Emergency Power Requirements

In accordance with *30 TAC § 217.36* and due to the number and duration of power outages that have occurred in the past, the treatment facility must incorporate an on-site automatically starting generator capable of continuously operating all critical wastewater treatment system units. The fuel tank must be sized for a run time greater than the longest power outage in the power records. This generator will provide enough power for the following units:

A. Influent Lift Station Pumps
B. Mechanical Bar Screens
C. Activated Sludge Mechanical Surface Aerators (one in each basin)
D. Clarifier Sludge Scrapers
E. Return Activated Sludge Pumps
F. Cloth Media Filter
G. Chlorination System
H. Lighting Panels and Control Equipment
I. Effluent Metering Station

An automatic transfer switch will be included to transfer electrical loads to the generator during an outage. In accordance with *30 TAC § 217.37,* the disinfection system will automatically restart during a power outage and upon transfer back to the main power source.

2. Alarm Features

The facility will be equipped with a Supervisory Control and Data Acquisition (SCADA) system to monitor the operation of all critical treatment units. The control room will include a computer with graphic display of the treatment units that will indicate status and alarm conditions. The computer system will include an autodialer to alert facility personnel of the following conditions:

A. Power Outage
B. Influent Lift Station Wet Well High Level
C. Bar Screen Channel High Level
D. Clarifier Torque Overload
E. Equipment Failure
F. Chlorine Leak Detection

The autodialer will store prerecorded messages concerning each alarm condition and the procedure to be followed and will call up to 8 different phone numbers until the alarm condition is acknowledged. The influent lift station and clarifiers will also be equipped with local alarm lights for high level and high torque, respectively.

3. Design Features for Reliability and Operating Flexibility

A. Influent Lift Station: The influent lift station will include three submersible pumps sized to meet peak flow pumping capacity with the largest unit out of service. Level switches will automatically start and stop the pumps based on influent flows and rising and falling wet well levels. High wet well level will result in an alarm condition.

B. Bar Screen: The mechanical bar screen structure will include a bypass channel with a manual screen for use when needed. Slide gates will be used to isolate each channel as required.

C. Aeration Basins: Two aeration basins will be included, each capable of continuous operation. Piping and valves will be included to allow each unit to be individually isolated for draining, cleaning, or repairs.

D. Cloth Media Filter: The cloth media disk filter will include additional disks to provide redundancy in the case one disk is out of service during a peak flow event.

4. Overflow Prevention

The following design features will be used to prevent the overflow of wastewater from treatment units.

A. Based on 5 years of historical flow data, the facility design includes a peaking factor of 4 to insure adequate hydraulic capacity.

B. The influent lift station will be designed with the capacity to pump peak flow with the largest single pump out of service.

C. The facility hydraulic design, including piping, channels, weirs, troughs, and other features will be sized to allow the 2-hour peak flow to pass through the facility without exceeding minimum freeboard requirements with any single treatment unit out of service.

ATTACHMENT R.

SOLIDS MANAGEMENT PLAN

Hudson Oaks Wastewater Treatment Plant

Solids Management Plan Interim Phase I

Design Calculations of the Domestic Technical Report identifies an influent BOD strength of 300 mg/L. The first phase design flow capacity of this treatment facility is 0.2 MGD. This corresponds to a removal of 500 lbs. BOD/day (300 mg/L x 8.34 lbs./gallon x 0.2 MGD). The volatile solids in the sludge are estimated to have a 40% reduction in the aerobic digesters, therefore 60% solids would be remaining.

Biosolids Production			
Percent Permitted Flow	lbs. BOD/ Day Removed	Lbs. Wet Sludge/ Day (@ 2.0%)	Gal. of Wet Sludge/Day
100%	500	18,014	2,158
75%	375	13,511	1,620
50%	250	9,007	1,080
25%	125	4,504	540

Assuming influent BOD at average temperatures and a 40% volatile solids reduction in the Aerobic Digester at 100% of design flow, sludge would be wasted at 2,158 gallons per day. The capacity of the proposed aerobic digester basins for the interim phase I is 165,821 gallons. The interim phase I aerobic digester is designed to be (1) 42'ø x 16'. The digested sludge will be transported by a TCEQ registered hauler and disposed of at a registered landfill.

Solids Management Plan Interim Phase II

Design Calculations of the Domestic Technical Report identifies an influent BOD strength of 300 mg/L. The second phase flow capacity of this treatment facility is 0.95 MGD. This corresponds to a removal of 2,377 lbs. BOD/day (300 mg/L x 8.34 lbs./gallon x 0.95 MGD). The volatile solids in the sludge are estimated to have a 40% reduction in the aerobic digesters, therefore 60% solids would be remaining.

Biosolids Production			
Percent Permitted Flow	lbs. BOD/ Day Removed	Lbs. Wet Sludge/ Day (@ 2.0%)	Gal. of Wet Sludge/Day
100%	2,377	85,568	10,260
75%	1,783	64,176	7,695
50%	1,188	42,784	5,130
25%	594	21,392	2,565

Assuming influent BOD at average temperatures and a 40% volatile solids reduction in the Aerobic Digester at 100% of design flow, sludge be wasted at 10,260 gallons per day. The total capacity of the proposed aerobic digester basins for the interim phase II is 497,464 gallons. The interim phase II aerobic digesters are designed to be (2) 42'ø x 16'. The digested sludge will be transported by a TCEQ registered hauler and disposed of at a registered landfill.

Solids Management Plan Final Phase

Design Calculations of the Domestic Technical Report identifies an influent BOD strength of 300 mg/L. The final design flow capacity of this treatment facility is 1.19 MGD. This corresponds to a removal of 2,977 lbs. BOD/day (300 mg/L x 8.34 lbs./gallon x 1.19 MGD). The volatile solids in the sludge are estimated to have a 40% reduction in the aerobic digesters, therefore 60% solids would be remaining.

Biosolids Production			
Percent Permitted Flow	lbs. BOD/ Day Removed	Lbs. Wet Sludge/ Day (@ 2.0%)	Gal. of Wet Sludge/Day
100%	2,977	107,186	12,852
75%	2,233	80,389	9,639
50%	1,489	53,593	6,426
25%	744	26,796	3,213

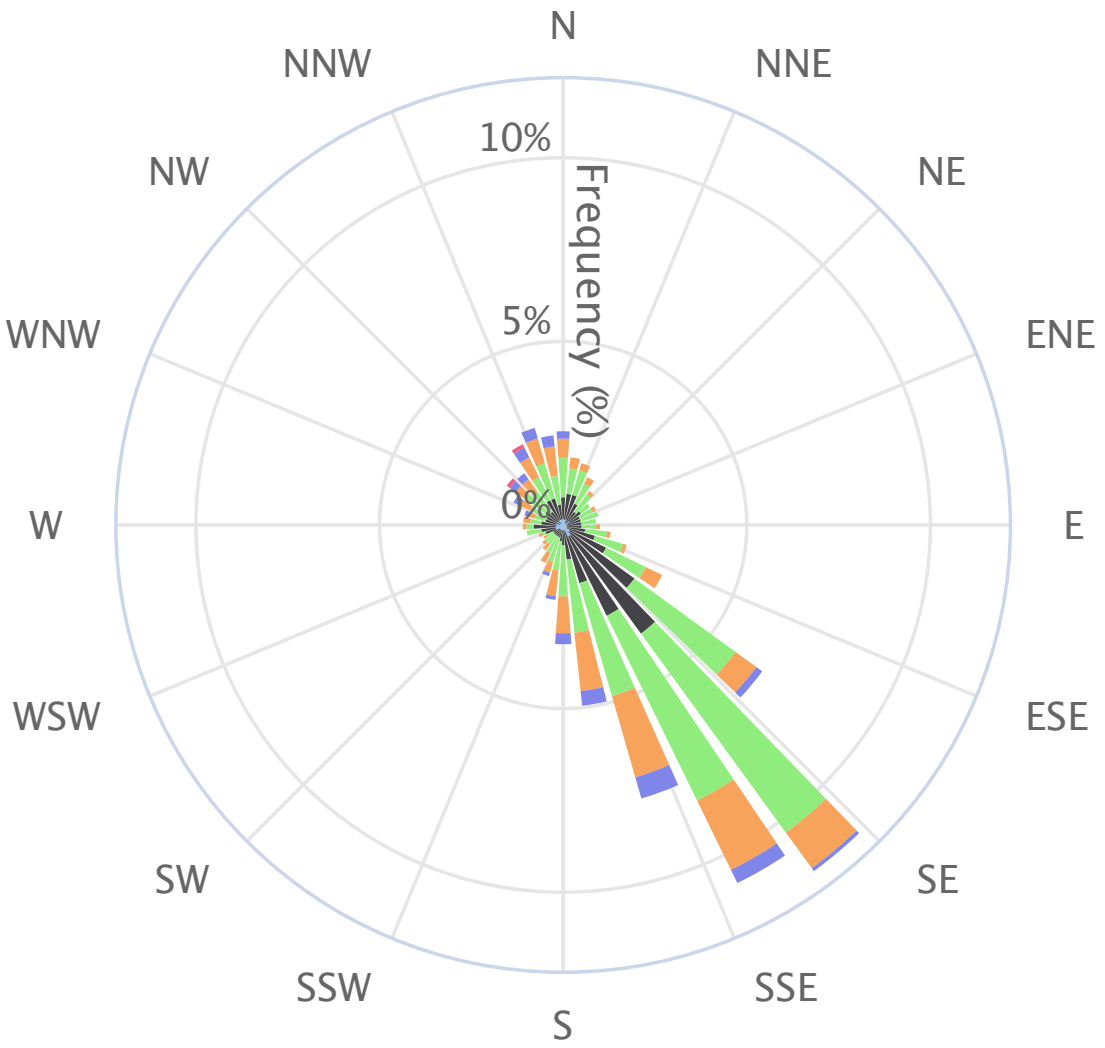
Assuming influent BOD at average temperatures and a 40% volatile solids reduction in the Aerobic Digester at 100% of design flow, sludge would be wasted at 12,852 gallons per day. The total capacity of the proposed aerobic digester basins for the final phase is 663,285 gallons. The final phase aerobic digester is designed to be (1) 42'ø x 16'. The digested sludge will be transported by a TCEQ registered hauler and disposed of at a registered landfill.

ATTACHMENT S.

WIND ROSE

MINERAL WELLS AP (TX) Wind Rose

Jan. 16, 2022 – Jan. 16, 2023
Sub-Interval: Jan. 1 – Dec. 31, 0 – 23



Wind Speed (mph)

- 1.3 – 4
- 4 – 8
- 8 – 13
- 13 – 19
- 19 – 25
- 25 – 32
- 32 – 39
- 39 – 47
- 47 –

Click and drag to zoom

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ATTACHMENT T.

NEARBY WASTEWATER TREATMENT FACILITIES

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Kimley»Horn

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ATTACHMENT U.

WWTP REGIONALIZATION LETTER

Kimley»Horn

March 1st, 2023

Rick Shaffer
Director of Water Utilities
City of Weatherford
917 Eureka St
Weatherford, TX 76086

RE: ***Accepting Additional Wastewater Flow***

Domestic Wastewater Facility Owner,

We are currently preparing an application for the discharge permit of Hudson Oaks Wastewater Treatment Plant in Hudson Oaks. The proposed facility will require 1.19 MGD of average day wastewater service capacity and the proposed service area is within 3 miles of the Weatherford Wastewater Treatment Facility.

Please respond by indicating below on this letter to specify whether your WWTP in Parker County has capacity and are willing to accommodate the required flow, or do not have the capacity to treat the required flow.

Please email the response to kyle.kubista-kimley-horn.com.

Sincerely,
KIMLEY-HORN AND ASSOCIATES, INC.
Texas Firm No. 928

Kyle, Kubista, P.E. (Texas License No. 121644)

Does your permitted wastewater treatment facility (WQ0010380002) or collection system currently have the capacity or are you willing to expand to accept the volume of 1.19 million gallons per day? Please refer to the attached Exhibit below.

☐ Yes ☑ No

Name: Richard Shaffer Title: Director of Water Utilities

Signature: _____ Date: 3/1/2023

ATTACHMENT V.

COPY OF PERMIT PAYMENT VOUCHER

TCEQ ePay Receipt

Transaction Information

Trace Number:	582EA000525090
Date:	01/30/2023 03:13 PM
Payment Method:	CC - Authorization 0000000657
ePay Actor:	HAYDEN BRODOWSKY
TCEQ Amount:	$2,050.00
Texas.gov Price::	$2,096.38*

* This service is provided by Texas.gov, the official website of Texas. The price of this service includes funds that support the ongoing operations and enhancements of Texas.gov, which is provided by a third party in partnership with the State.

Payment Contact Information

Name:	HAYDEN BRODOWSKY
Company:	CITY OF HUDSON OAKS
Address:	210 HUDSON OAKS DRIVE, HUDSON OAKS, TX 76087
Phone:	682-229-2400

Cart Items

Voucher	Fee Description	AR Number	Amount
614983	WW PERMIT - FACILITY WITH FLOW >= 1.0 MGD - NEW AND MAJOR AMENDMENTS		$2,000.00
614984	30 TAC 305.53B WQ NOTIFICATION FEE		$50.00
		TCEQ Amount:	**$2,050.00**

TCEQ ePay Voucher Receipt

Transaction Information

Voucher Number:	614983
Trace Number:	582EA000525090
Date:	01/30/2023 03:13 PM
Payment Method:	CC - Authorization 0000000657
Voucher Amount:	$2,000.00
Fee Type:	WW PERMIT - FACILITY WITH FLOW >= 1.0 MGD - NEW AND MAJOR AMENDMENTS
ePay Actor:	HAYDEN BRODOWSKY

Payment Contact Information

Name:	HAYDEN BRODOWSKY
Company:	CITY OF HUDSON OAKS
Address:	210 HUDSON OAKS DRIVE, HUDSON OAKS, TX 76087
Phone:	682-229-2400

Site Information

Site Name:	HUDSON OAKS WASTEWATER TREATMENT PLANT
Site Address:	4005 KELLEY CT, WEATHERFORD, TX 76087

Customer Information

Customer Name:	CITY OF HUDSON OAKS
Customer Address:	210 HUDSON OAKS DR, HUDSON OAKS, TX 76087
State Tax ID:	17519021012

TCEQ ePay Voucher Receipt

Transaction Information

Voucher Number:	614984
Trace Number:	582EA000525090
Date:	01/30/2023 03:13 PM
Payment Method:	CC - Authorization 0000000657
Voucher Amount:	$50.00
Fee Type:	30 TAC 305.53B WQ NOTIFICATION FEE
ePay Actor:	HAYDEN BRODOWSKY

Payment Contact Information

Name:	HAYDEN BRODOWSKY
Company:	CITY OF HUDSON OAKS
Address:	210 HUDSON OAKS DRIVE, HUDSON OAKS, TX 76087
Phone:	682-229-2400

ATTACHMENT W.

PUBLIC INVOVEMENT PLAN FORM

Texas Commission on Environmental Quality

Public Involvement Plan Form for Permit and Registration Applications

The Public Involvement Plan is intended to provide applicants and the agency with information about how public outreach will be accomplished for certain types of applications in certain geographical areas of the state. It is intended to apply to new activities; major changes at existing plants, facilities, and processes; and to activities which are likely to have significant interest from the public. This preliminary screening is designed to identify applications that will benefit from an initial assessment of the need for enhanced public outreach.

All applicable sections of this form should be completed and submitted with the permit or registration application. For instructions on how to complete this form, see TCEQ-20960-inst.

Section 1. Preliminary Screening

☒ New Permit or Registration Application

☐ New Activity – modification, registration, amendment, facility, etc. (see instructions)

If neither of the above boxes are checked, completion of the form is not required and does not need to be submitted.

Section 2. Secondary Screening

☒ Requires public notice,

☒ Considered to have significant public interest, **and**

☒ Located within any of the following geographical locations:

- Austin
- Dallas
- Fort Worth
- Houston
- San Antonio
- West Texas
- Texas Panhandle
- Along the Texas/Mexico Border
- Other geographical locations should be decided on a case-by-case basis

If all the above boxes are not checked, a Public Involvement Plan is not necessary. Stop after Section 2 and submit the form.

☐ Public Involvement Plan not applicable to this application. Provide **brief** explanation.

Section 3. Application Information

Type of Application (check all that apply):

Air ☐ Initial ☐ Federal ☐ Amendment ☐ Standard Permit ☐ Title V

Waste ☐ Municipal Solid Waste ☐ Industrial and Hazardous Waste ☐ Scrap Tire
☐ Radioactive Material Licensing ☐ Underground Injection Control

Water Quality

☒ Texas Pollutant Discharge Elimination System (TPDES)

- ☐ Texas Land Application Permit (TLAP)
- ☐ State Only Concentrated Animal Feeding Operation (CAFO)
- ☐ Water Treatment Plant Residuals Disposal Permit

☐ Class B Biosolids Land Application Permit

☐ Domestic Septage Land Application Registration

Water Rights New Permit

☐ New Appropriation of Water

☐ New or existing reservoir

Amendment to an Existing Water Right

☐ Add a New Appropriation of Water

☐ Add a New or Existing Reservoir

☐ Major Amendment that could affect other water rights or the environment

Section 4. Plain Language Summary

Provide a brief description of planned activities.

A new wastewater treatment plant is needed in order to accommodate existing and future wastewater flows experienced by the City of Hudson Oaks. An initial 0.20 MGD facility will accommodate the existing flows, while two expansion phases of 0.75 MGD and 0.24 MGD will accommodate the full buildout of 1.19 MGD. The treated effluent will discharge into South Fork Trinity River (Segment 0831A).

Section 5. Community and Demographic Information

Community information can be found using EPA's EJ Screen, U.S. Census Bureau information, or generally available demographic tools.

Information gathered in this section can assist with the determination of whether alternative language notice is necessary. Please provide the following information.

Hudson Oaks

(City)

Parker

(County)

U.S. Census Bureau, Texas Reference Map, City of Hudson Oaks

(Census Tract)

Please indicate which of these three is the level used for gathering the following information.

☒ City ☐ County ☐ Census Tract

(a) Percent of people over 25 years of age who at least graduated from high school

95.7%

(b) Per capita income for population near the specified location

$48,323

(c) Percent of minority population and percent of population by race within the specified location

Minority 15.2%: American Indian 0.6%, Asian 0.7%, African American 1.2%, Hispanic 9.8%, Native Hawaiian and Pacific Islander 0.1%, Other 2.8% | Remaining: White 84.8%

(d) Percent of Linguistically Isolated Households by language within the specified location

3.1%

(e) Languages commonly spoken in area by percentage

English 92.7%, Spanish 5.9%, Other Indo-European 0.1%, Asian and Pacific Islander 1.3%.

(f) Community and/or Stakeholder Groups

Unknown

(g) Historic public interest or involvement

Unknown

Section 6. Planned Public Outreach Activities

(a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39?

☒ Yes ☐ No

(b) If yes, do you intend at this time to provide public outreach other than what is required by rule?

☐ Yes ☒ No

If Yes, please describe.

If you answered "yes" that this application is subject to 30 TAC Chapter 39, answering the remaining questions in Section 6 is not required.

(c) Will you provide notice of this application in alternative languages?

☐ Yes ☐ No

Please refer to Section 5. If more than 5% of the population potentially affected by your application is Limited English Proficient, then you are required to provide notice in the alternative language.

If yes, how will you provide notice in alternative languages?

☐ Publish in alternative language newspaper
☐ Posted on Commissioner's Integrated Database Website
☐ Mailed by TCEQ's Office of the Chief Clerk
☐ Other (specify)

(d) Is there an opportunity for some type of public meeting, including after notice?

☐ Yes ☐ No

(e) If a public meeting is held, will a translator be provided if requested?

☐ Yes ☐ No

(f) Hard copies of the application will be available at the following (check all that apply):

☐ TCEQ Regional Office ☐ TCEQ Central Office
☐ Public Place (specify)

Section 7. Voluntary Submittal

For applicants voluntarily providing this Public Involvement Plan, who are not subject to formal public participation requirements.

Will you provide notice of this application, including notice in alternative languages?

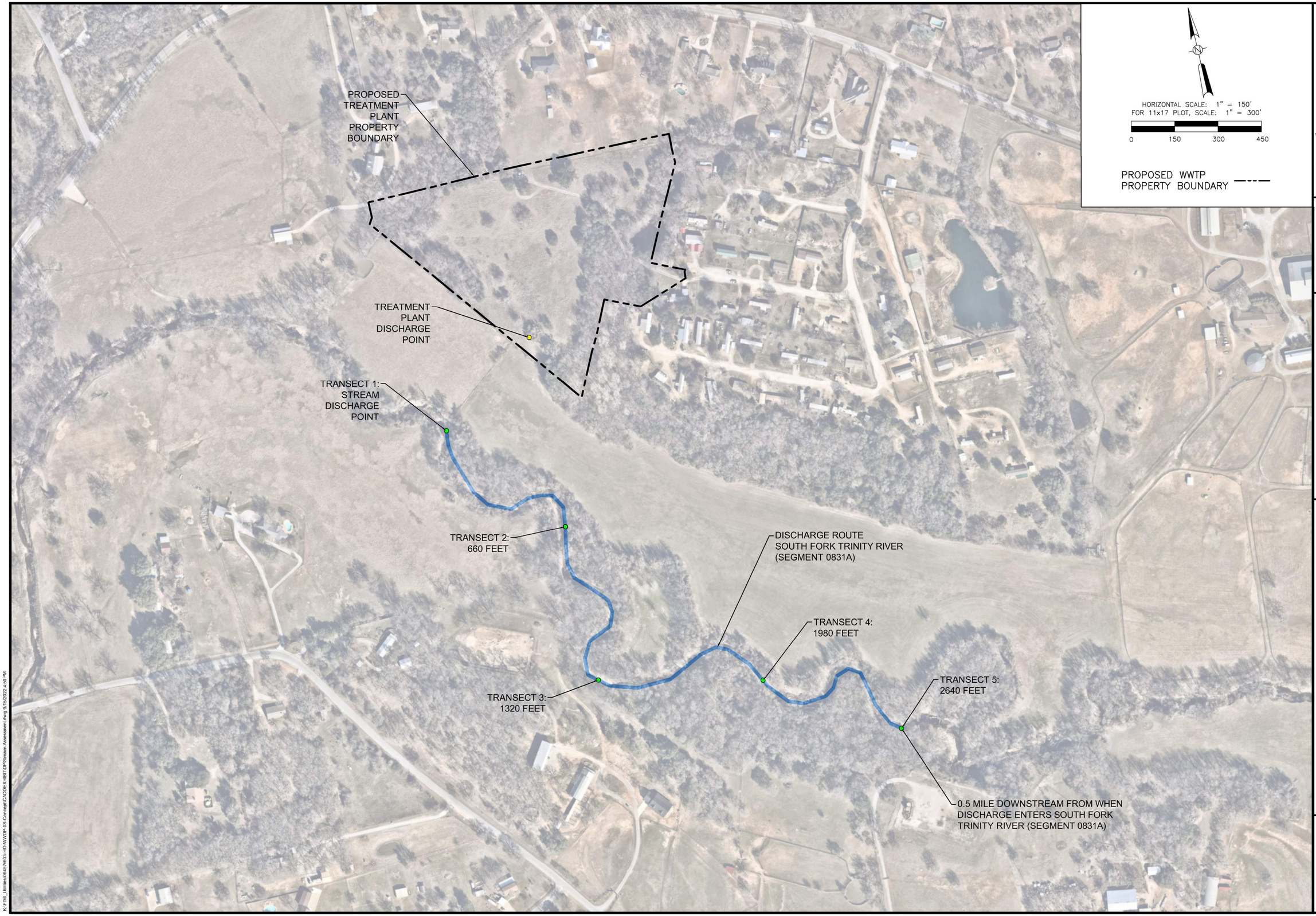
☒ Yes ☐ No

What types of notice will be provided?

☒ Publish in alternative language newspaper
☐ Posted on Commissioner's Integrated Database Website
☐ Mailed by TCEQ's Office of the Chief Clerk
☐ Other (specify)

ATTACHMENT Y.

STREAM ASSESSMENT



Kimley»Horn
801 Cherry St., Suite 1300, Unit 11 Ft. Worth, TX 76102 P: 817-335-6511
TBPE No. 928 F: 817-335-3070

No.	Revision	By	Date

KYLE P. KUBISTA
SERIAL NO. 121644
DATE: MARCH 2023

HUDSON OAKS WASTEWATER TREATMENT PLANT

STREAM ASESSMENT

DATE:	MARCH 2023
DESIGN:	RED
DRAWN:	AP
CHECKED:	KPK
KHA NO.:	064570603

00131

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