

**WASTEWATER TREATMENT PLANT**

**PERMIT APPLICATION**

FOR

**HARRIS COUNTY MUNICIPAL UTILITY DISTRICT  
NO. 531 WWTP NO.2**

HARRIS COUNTY, TEXAS

LJA Job No. 2568-2005  
April 2023

Prepared By:  
LJA Engineering, Inc.  
3600 W Sam Houston Parkway S, Suite 600  
Houston, TX 77042  
(713) 953-5200  
FRN F-1386



# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

## DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST



Complete and submit this checklist with the application.

APPLICANT: Harris County Municipal Utility District No. 531

PERMIT NUMBER:  

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

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

### For TCEQ Use Only

Segment Number \_\_\_\_\_ County \_\_\_\_\_  
 Expiration Date \_\_\_\_\_ Region \_\_\_\_\_  
 Permit Number \_\_\_\_\_



Print this voucher for your records. If you are sending the TCEQ hardcopy documents related to this payment, include a copy of this voucher.

Transaction Information

**Voucher Number:** 635699  
**Trace Number:** 582EA000545624  
**Date:** 04/24/2023 04:21 PM  
**Payment Method:** CC - Authorization 0000024673  
**Voucher Amount:** \$50.00  
**Fee Type:** 30 TAC 305.53B WQ NOTIFICATION FEE  
**ePay Actor:** SARAH VELEZ  
**Actor Email:** svelez@lja.com  
**IP:** 209.133.67.114

Payment Contact Information

**Name:** SARAH VELEZ  
**Company:** LJA  
**Address:** 3600 W SAM HOUSTON PARKWAY S, HOUSTON, TX 77042  
**Phone:** 713-341-8093

Close

Print this voucher for your records. If you are sending the TCEQ hardcopy documents related to this payment, include a copy of this voucher.

**Transaction Information**

**Voucher Number:** 635698  
**Trace Number:** 582EA000545624  
**Date:** 04/24/2023 04:21 PM  
**Payment Method:** CC - Authorization 0000024673  
**Voucher Amount:** \$800.00  
**Fee Type:** WW PERMIT - FACILITY WITH FLOW >= .10 & < .25 MGD - NEW AND MAJOR AMENDMENTS  
**ePay Actor:** SARAH VELEZ  
**Actor Email:** svelez@lja.com  
**IP:** 209.133.67.114

**Payment Contact Information**

**Name:** SARAH VELEZ  
**Company:** LJA  
**Address:** 3600 W SAM HOUSTON PARKWAY S, HOUSTON, TX 77042  
**Phone:** 713-341-8093

**Site Information**

**Site Name:** HARRIS COUNTY MUD 531 WWTP NO 2  
**Site Location:** APPROX 0.47 MILES WEST OF MUESCHKE RD AND 0.26 MILES SOUTH OF SCHIEL RD

**Customer Information**

**CN:** CN604577270  
**Customer Name:** HARRIS COUNTY MUD 531  
**Customer Address:** 3200 SOUTHWEST FWY STE 2600, HOUSTON, TX 77042

[Close](#)



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 <input type="checkbox"/>	\$315.00 <input type="checkbox"/>
≥0.05 but <0.10 MGD	\$550.00 <input type="checkbox"/>	\$515.00 <input type="checkbox"/>
≥0.10 but <0.25 MGD	\$850.00 <input checked="" type="checkbox"/>	\$815.00 <input type="checkbox"/>
≥0.25 but <0.50 MGD	\$1,250.00 <input type="checkbox"/>	\$1,215.00 <input type="checkbox"/>
≥0.50 but <1.0 MGD	\$1,650.00 <input type="checkbox"/>	\$1,615.00 <input type="checkbox"/>
≥1.0 MGD	\$2,050.00 <input type="checkbox"/>	\$2,015.00 <input type="checkbox"/>

Minor Amendment (for any flow) \$150.00 ☐

**Payment Information:**

Mailed      Check/Money Order Number:   
Check/Money Order Amount:   
Name Printed on Check:

EPAY      Voucher Number:  635698 & 635988  text.

Copy of Payment Voucher enclosed?      Yes ☒

**Section 2. Type of Application (Instructions Page 29)**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> New TPDES                   | <input type="checkbox"/> New TLAP                               |
| <input type="checkbox"/> Major Amendment <u>with</u> Renewal    | <input type="checkbox"/> Minor Amendment <u>with</u> Renewal    |
| <input type="checkbox"/> Major Amendment <u>without</u> Renewal | <input type="checkbox"/> Minor Amendment <u>without</u> Renewal |
| <input type="checkbox"/> Renewal without changes                | <input type="checkbox"/> Minor Modification of permit           |

For amendments or modifications, describe the proposed changes:

**For existing permits:**

Permit Number: WQ00

EPA I.D. (TPDES only): TX

Expiration Date:

## Section 3. Facility Owner (Applicant) and Co-Applclicant 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?

Harris County Municipal Utility District No. 531

*(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: 604577270

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: Paul White

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

Title: President

### 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?

*(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:

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):

First and Last Name:

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

Title:

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

### 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:** 1

## 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): Mrs.

First and Last Name: Ashley Broughton

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

Title: Senior Project Manager

Organization Name: LJA Engineering, Inc

Mailing Address: 3600 W Sam Houston Parkway S, STE 600

City, State, Zip Code: Houston, TX 77042

Phone No.: 713-380-4431 Ext.:  Fax No.:

E-mail Address: abroughton@lja.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

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

First and Last Name: Sarah Velez

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

Title: Assistant Project Manager

Organization Name: LJA Engineering, Inc

Mailing Address: 3600 W Sam Houston Parkway S, STE 600

City, State, Zip Code: Houston, TX 77042

Phone No.: 713-341-8093 Ext.:  Fax No.:

E-mail Address: svelez@lja.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): Mrs.

First and Last Name: Ashley Broughton

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

Title: Senior Project Manager

Organization Name: LJA Engineering, Inc

Mailing Address: 3600 W Sam Houston Parkway S, STE 600

City, State, Zip Code: Houston, TX 77042

Phone No.: 713-380-4431 Ext.: [REDACTED]

Fax No.: [REDACTED]

E-mail Address: abroughton@lja.com

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

First and Last Name: Sarah Velez

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

Title: Assistant Project Manager

Organization Name: LJA Engineering, Inc

Mailing Address: 3600 W Sam Houston Parkway S, STE 600

City, State, Zip Code: Houston, TX 77042

Phone No.: 713-341-8093 Ext.: [REDACTED]

Fax No.: [REDACTED]

E-mail Address: svelez@lja.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): Ms.

First and Last Name: Tina Kelsey

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

Title: Bookkeeper

Organization Name: Myrtle Cruz, Inc

Mailing Address: 3401 Louisiana St, STE 400

City, State, Zip Code: Houston, TX 77002

Phone No.: 713-759-1368 Ext.: [REDACTED]

Fax No.: [REDACTED]

E-mail Address: tina\_kelsey@mccruz.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: Mike Ammel

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

Title: Operator

Organization Name: Environmental Development Partners, LLC

Mailing Address: 3 Green Way Plaza STE 1100

City, State, Zip Code: Houston, TX 77040

Phone No.: 713-814-0560 Ext.: [REDACTED]

Fax No.: [REDACTED]

E-mail Address: mike.ammel@inframark.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): Mrs.

First and Last Name: Ashley Broughton

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

Title: Senior Project Manager

Organization Name: LJA Engineering, Inc

Mailing Address: 3600 W Sam Houston Parkway S, STE 600

City, State, Zip Code: Houston, TX 77042

Phone No.: 713-380-4431 Ext.: [REDACTED]

Fax No.: [REDACTED]

E-mail Address: abroughton@lja.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): Mrs.

First and Last Name: Ashley Broughton

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

Title: Senior Project Manager

Organization Name: LJA Engineering, Inc

Phone No.: 713-380-4431 Ext.:

E-mail: abroughton@lja.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: Northwest Branch Library

Location within the building: Reference Desk

Physical Address of Building: 11355 Regency Green Drive

City: Cypress

County: Harris

Contact Name: Gavin Sheaffer

Phone No.: 832-927-5460 Ext.:

#### 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

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

Phone No.: [REDACTED] E-mail Address: [REDACTED]

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: [REDACTED]

- 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): [REDACTED]

First and Last Name: [REDACTED]

Mailing Address: [REDACTED]

City, State, Zip Code: [REDACTED]

Phone No.: [REDACTED] E-mail Address: [REDACTED]

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: [REDACTED]

## 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:

Approx. 0.50 miles southwest of the intersection of Mueschke Rd and Schiel Rd.

- 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:

To a pipe then to a detention pond, thence to a series of pipes then to a detention pond, then to Schiel Road storm sewer then to Little Cypress Creek, then to Cypress Creek Segment 1009 of the San Jacinto River Basin

City nearest the outfall(s): Cypress

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

Outfall Latitude: 30.0088

Longitude: -95.7317

- 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:** [REDACTED]

- 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:

[REDACTED]

- B. City nearest the disposal site: [REDACTED]

- C. County in which the disposal site is located: [REDACTED]

- D. Disposal Site Latitude: [REDACTED] Longitude: [REDACTED]

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

[REDACTED]

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

[REDACTED]

## 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: [redacted]

## Section 14. Signature Page (Instructions Page 39)

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

Permit Number: TBD

Applicant: Harris County Municipal Utility District No. 531

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): Paul White

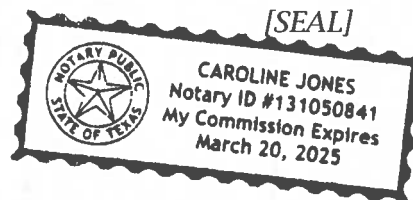
Signatory title: President

Signature:  Date: 7-11-2022  
(Use blue ink)

Subscribed and Sworn to before me by the said Paul White  
on this 11<sup>th</sup> day of July, 20 20.  
My commission expires on the 20 day of March, 20 25.

  
Notary Public

Harris  
County, Texas



## **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.*

Harris County Municipal Utility District No. 531 (CN604577270) proposes to operate Harris County Municipal Utility District No. 531 WWTP No.2 a domestic wastewater treatment plant. The facility will be located approximately 0.50 miles southwest of the intersection of Mueshke Road and Schiel Road, Cypress, in Harris County, Texas 77433.

This application is for a new TDPES permit to ultimately discharge at a daily average flow of 100,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD<sub>5</sub>), total suspended solids (TSS), ammonia nitrogen (NH<sub>3</sub>-N), and Escherichia coli. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater will be treated by an activated sludge process plant and the treatment units will include a bar screen, aeration basins, final clarifiers, sludge digesters, and a chlorine contact chamber

## **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.

Harris County Municipal Utility District No. 531 (CN604577270) propone operar Harris County Municipal Utility District No. 531 WWTP No.2, una planta de aguas residuales. La instalación estará ubicada aproximadamente 0.50 millas sur oeste de Mueshke Road y Schiel Road, Cypress, Condado Harris, Texas 774330.

Esta solicitud propone tratar un ultimo promedio de 100,000 galones diarios de aguas residuales de uso doméstico.

Se espera que la descarga del agua tratada de la instalación contenga demanda de bioquímica de oxígeno de cinco días (CBOD5 por sus siglas en inglés), sólidos suspendidos totales (TSS por sus siglas en ingles), nitrógeno amoniacal (NH<sub>3</sub>-N), y Escherichia coli. Posibles contaminantes adicionales están incluídos en la aplicación en la sección 7 de la aplicación titulada Domestic Technical Report 1.0. Las aguas residuales de uso doméstico serán tratadas en una planta con un sistema de lodos activados que incluye un contenedor con rejillas, tanques aeróbicos, un tanque clarificador, un tanque de contacto de cloro y tanques de digestión.



## 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: Harris 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):

## 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

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## 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)*



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): 0.05

2-Hr Peak Flow (MGD): 0.20

Estimated construction start date: 05/01/2024

Estimated waste disposal start date: 02/01/2025

**B. Interim II Phase**

Design Flow (MGD): Link here to enter text

2-Hr Peak Flow (MGD): Link here to enter text

Estimated construction start date: Link here to enter text

Estimated waste disposal start date: Link here to enter text

**C. Final Phase**

Design Flow (MGD): 0.10

2-Hr Peak Flow (MGD): 0.40

Estimated construction start date: 03/01/2025

Estimated waste disposal start date: 10/01/2025

**D. Current operating phase: Not in operation**

Provide the startup date of the facility: Link here to enter text

**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:

Attachment 8

Port or pipe diameter at the discharge point, in inches: 24

## 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)
Attachment 9		

## C. Process flow diagrams

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

**Attachment:** 10.1 & 10.2

### 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:** 11

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

Plant will serve a proposed subdivision in Harris County MUD No. 531.

### 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.

## 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.

## 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:

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.

### 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.

Buffer zone requirements will be met by ownership and restrictive easement when the plant is constructed.

### 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*.

### 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.

### 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.

### 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.

## 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  or TXRNE

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:

<div></div>
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## **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.

### ***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.

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.

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<sub>5</sub> concentration of the sludge, and the design BOD<sub>5</sub> concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

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<sub>5</sub> concentration of the septic waste, and the design BOD<sub>5</sub> concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

--

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.

## 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). **Water 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 <sub>5</sub> , 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					
<i>E.coli</i> (CFU/100ml) freshwater					
Enterococci (CFU/100ml)					

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
saltwater					
Total Dissolved Solids, mg/l					
Electrical Conductivity, $\mu$ mohs/cm, †					
Oil & Grease, mg/l					
Alkalinity (CaCO <sub>3</sub> )*, 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					
Total Dissolved Solids, mg/l					
pH, standard units					
Fluoride, mg/l					
Aluminum, mg/l					
Alkalinity (CaCO <sub>3</sub> ), mg/l					

## Section 8. Facility Operator (Instructions Page 60)

Facility Operator Name: To be selected by owner

Facility Operator's License Classification and Level: TBD

Facility Operator's License Number: 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:

#### **B. Sludge disposal site**

Disposal site name: TBD

TCEQ permit or registration number: TBD

County where disposal site is located: TBD

#### **C. Sludge transportation method**

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

Name of the hauler: TBD

Hauler registration number: TBD

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:**

- USDA Natural Resources Conservation Service Soil Map:

**Attachment:**

- Federal Emergency Management Map:

**Attachment:**

- Site map:

**Attachment:**

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:**

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:

### **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:

Total Kjeldahl Nitrogen, mg/kg:

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

Phosphorus, mg/kg:

Potassium, mg/kg:

pH, standard units:

Ammonia Nitrogen mg/kg:

Arsenic:

Cadmium:

Chromium:

Copper:

Lead:

Mercury:

Molybdenum:

Nickel:

Selenium:

Zinc:

Total PCBs:

Provide the following information:

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

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

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

### C. Liner information

Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of  $1 \times 10^{-7}$  cm/sec?

Yes ☐ No ☐

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

### D. Site development plan

Provide a detailed description of the methods used to deposit sludge in the

lagoon(s):

Attach the following documents to the application.

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

**Attachment:** [\[Click here to attach file\]](#)

- Copy of the closure plan

**Attachment:** [\[Click here to attach file\]](#)

- Copy of deed recordation for the site

**Attachment:** [\[Click here to attach file\]](#)

- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons

**Attachment:** [\[Click here to attach file\]](#)

- Description of the method of controlling infiltration of groundwater and surface water from entering the site

**Attachment:** [\[Click here to attach file\]](#)

- Procedures to prevent the occurrence of nuisance conditions

**Attachment:** [\[Click here to attach file\]](#)

#### **E. Groundwater monitoring**

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

Yes ☐ No ☐

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

**Attachment:** [\[Click here to attach file\]](#)

## **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:

<div></div>
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### 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:

<div></div>
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## 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: [Click here to enter text.](#)

## 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:

Title:

Signature: \_\_\_\_\_

Date: \_\_\_\_\_



# 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 proposed WWTP is needed for a proposed 45 acre development. The ultimate phase of the plant will serve a total of 333 residential lots as part of the development. See Attachment 12.

### 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:

If yes, attach correspondence from the city.

Attachment:

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:

#### 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:**

### ***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:** 13.1

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

**Attachment:** 13.2

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:**

## **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):

Average Influent Organic Strength or BOD<sub>5</sub> Concentration in mg/l:

Average Influent Loading (lbs/day = total average flow X average BOD<sub>5</sub> conc. X 8.34):

Provide the source of the average organic strength or BOD<sub>5</sub> concentration.

<input type="text"/>
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**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 <sub>5</sub> Concentration (mg/l)
Municipality		
Subdivision	0.10	300
Trailer park - transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria,		

Source	Total Average Flow (MGD)	Influent BOD <sub>5</sub> Concentration (mg/l)
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	0.10	
AVERAGE BOD <sub>5</sub> 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: N/A

Dissolved Oxygen, mg/l: 4

Other:

### **B. Interim II Phase Design Effluent Quality**

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

Total Suspended Solids, mg/l:

Ammonia Nitrogen, mg/l:

Total Phosphorus, mg/l:

Dissolved Oxygen, mg/l:

Other:

### **C. Final 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: N/A

Dissolved Oxygen, mg/l: 4

Other:

### **D. Disinfection Method**

Identify the proposed method of disinfection.

- ☒ Chlorine: 1-4 mg/l after 20 minutes detention time at peak flow  
Dechlorination process:
- ☐ Ultraviolet Light:  seconds contact time at peak flow
- ☐ Other:

## **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:** 14

## 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.

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

Federal Emergency Management Agency's Flood Insurance Rate Map No. 48201C0215L Attachment 15.

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:

**If no**, provide the approximate date you anticipate submitting your application to the Corps:

### B. Wind rose

Attach a wind rose. **Attachment:** 16

## 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:

#### **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:

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

Attach a solids management plan to the application.

Attachment: 17

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.

# 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:

Distance and direction to the intake:

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

Attachment:

### 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).

<input type="text"/>
----------------------



### C. Sea grasses

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

Yes ☐

No ☒

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

## 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: Detention Pond

### A. Receiving water type

Identify the appropriate description of the receiving waters.

☐ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres:

Average depth of the entire water body, in feet:

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

☒ Man-made Channel or Ditch

- ☐ Open Bay
- ☐ Tidal Stream, Bayou, or Marsh
- ☐ Other, specify:

### 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:

### C. Downstream perennial confluences

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

The discharge point will be into a man-made detention pond, thence to Little Cypress Creek

### 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.

The flow will go from plant site into a man-made detention pond, then through a series of pipes into a detention pond, then into the Schiel road storm sewer that flows into Little Cypress Creek.

#### E. Normal dry weather characteristics

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

The man-made detention pond has not been built yet.

Date and time of observation: 4/4/22023 1:00 pm

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

#### 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

- |  |   |
|--|---|
| <input type="checkbox"/> Domestic water supply | <input type="checkbox"/> Industrial water supply                      |
| <input type="checkbox"/> Park activities       | <input checked="" type="checkbox"/> Other(s), specify <u>Drainage</u> |

### 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

## 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: 0

Average Daily Flows, in MGD: 0

Significant IUs - non-categorical:

Number of IUs: 0

Average Daily Flows, in MGD: 0

Other IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 0

##### 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.

<div></div>
-------------

### 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.

--

### 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.

Click here to enter text

**B. Non-substantial modifications**

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

Yes ☐      No ☒

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

Click here to enter text

**C. Effluent parameters above the MAL**

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

**Table 6.0(1) - Parameters Above the MAL**

Pollutant	Concentration	MAL	Units	Date

#### D. Industrial user interruptions

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

Yes ☐

No ☒

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

Click here to enter text.

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

#### A. General information

Company Name: N/A

SIC Code: Click here to enter text.

Telephone number: Click here to enter text. Fax number: Click here to enter text.

Click here to enter text.

Contact name: Click here to enter text.

Address: Click here to enter text.

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

#### B. Process information

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

Click here to enter text.

#### C. Product and service information

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



click here to enter text

#### D. Flow rate information

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

Process Wastewater:

Discharge, in gallons/day:

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day:

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:   
Subcategories:

Category:   
Subcategories:

Category:   
Subcategories:

Category:   
Subcategories:

Category:   
Subcategories:

#### **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.

--



# 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

<b>1. Reason for Submission</b> (If other is checked please describe in space provided.)		
<input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)		<input type="checkbox"/> Other
<b>2. Customer Reference Number</b> (if issued)	<a href="#">Follow this link to search for CN or RN numbers in Central Registry**</a>	<b>3. Regulated Entity Reference Number</b> (if issued)
CN 604577270		RN

## SECTION II: Customer Information

<b>4. General Customer Information</b>		<b>5. Effective Date for Customer Information Updates</b> (mm/dd/yyyy)		02/21/22	
<input checked="" type="checkbox"/> New Customer <input type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership					
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)					
<i>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).</i>					
<b>6. Customer Legal Name</b> (If an individual, print last name first: eg: Doe, John)				<i>If new Customer, enter previous Customer below:</i>	
Harris County Municipal Utility District No. 531					
<b>7. TX SOS/CPA Filing Number</b>		<b>8. TX State Tax ID</b> (11 digits)		<b>9. Federal Tax ID</b> (9 digits)	<b>10. DUNS Number</b> (if applicable)
<b>11. Type of Customer:</b>		<input type="checkbox"/> Corporation		<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship		<input checked="" type="checkbox"/> Other: MUD	
<b>12. Number of Employees</b>				<b>13. Independently Owned and Operated?</b>	
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher				<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>14. Customer Role</b> (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following					
<input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Owner & Operator <input type="checkbox"/> Other:					
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant					
<b>15. Mailing Address:</b>	3200 Southwest FWY STE 2600				
	c/o Allen Boone Humphries Robinson, LLP				
	City	Houston	State	TX	ZIP 77027 ZIP + 4 7537
<b>16. Country Mailing Information</b> (if outside USA)				<b>17. E-Mail Address</b> (if applicable)	
				ksherborne@abhr.com	
<b>18. Telephone Number</b>		<b>19. Extension or Code</b>		<b>20. Fax Number</b> (if applicable)	

**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.)

Harris County MUD No. 531 WWTP No. 2

**23. Street Address of the Regulated Entity:**(No PO Boxes)

City

State

ZIP

ZIP + 4

**24. County**

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

**25. Description to Physical Location:**

Approx. 0.50 miles of southwest of the intersection of Mueschke Rd and Schiel Rd.

**26. Nearest City****State****Nearest ZIP Code**

Cypress

TX

77433

*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:**

30.0089

**28. Longitude (W) In Decimal:**

-95.7330

Degrees

Minutes

Seconds

Degrees

Minutes

Seconds

**29. Primary SIC Code****30. Secondary SIC Code****31. Primary NAICS Code****32. Secondary NAICS Code**

(4 digits)

(4 digits)

(5 or 6 digits)

(5 or 6 digits)

4952

221320

**33. What is the Primary Business of this entity?** (Do not repeat the SIC or NAICS description.)**34. Mailing Address:**

3200 Southwest FWY STE 2600

c/o Allen Boone Humphries Robinson, LLP

City

Houston

State

TX

ZIP

77027

ZIP + 4

7537

**35. E-Mail Address:****36. Telephone Number****37. Extension or Code****38. Fax Number** (if applicable)

( 713 ) 860-6400

( ) -

**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.

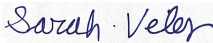
<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input checked="" type="checkbox"/> Wastewater	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

## **SECTION IV: Preparer Information**

<b>40. Name:</b>	Sarah Velez			<b>41. Title:</b>	Assistant Project Manager
<b>42. Telephone Number</b>	<b>43. Ext./Code</b>	<b>44. Fax Number</b>	<b>45. E-Mail Address</b>		
( 713 ) 341-8093		( ) -	svelez@lja.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.

<b>Company:</b>	LJA Engineering	<b>Job Title:</b>	Assistant Project Manager	
<b>Name (In Print):</b>	Sarah Velez		<b>Phone:</b>	(713)341-8093
<b>Signature:</b>			<b>Date:</b>	04/24/2023

**SPECIAL WARRANTY DEED  
(0.894 Acre - Wastewater Treatment Plant)**

**NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OR ALL OF THE FOLLOWING INFORMATION FROM ANY INSTRUMENT THAT TRANSFERS AN INTEREST IN REAL PROPERTY BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER**

**THE STATE OF TEXAS           §  
  §     **KNOW ALL BY THESE PRESENTS:**  
COUNTY OF HARRIS         §**

THAT AHV SCHIEL BFR OWNER, LLC, a Delaware limited liability company ("Grantor"), for and in consideration of the sum of Ten and No/100 Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, has GRANTED, BARGAINED, SOLD and CONVEYED, and by these presents does GRANT, BARGAIN, SELL and CONVEY unto **HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 531**, a political subdivision of the State of Texas, its successors and assigns ("Grantee"), all of that certain tract of real property situated in Harris County, Texas, containing 0.894 acre, as more particularly described in **Exhibit A** and shown on **Exhibit B**, both attached hereto and incorporated herein for all purposes, together with all rights, titles, and interests appurtenant thereto and any and all improvements situated thereon (collectively, the "Property").

This Special Warranty Deed and the conveyance hereinabove set forth are executed by Grantor and accepted by Grantee subject to the terms, conditions and provisions hereof and further subject to all easements, conditions, restrictions, covenants, mineral or royalty interests, mineral reservations, surface waivers, utility conveyances, liens, encumbrances, regulations or orders of municipal and/or other governmental authorities, if any, or other matters of record in Harris County, Texas, to the extent the same are validly existing and applicable to the Property (collectively, the "Permitted Encumbrances").

TO HAVE AND TO HOLD the Property, together with all and singular the rights and appurtenances thereunto in anywise belonging, unto Grantee, its successors and assigns, forever, and Grantor does hereby bind itself, its successors and assigns, to WARRANT AND FOREVER DEFEND, all and singular the title to the Property unto Grantee, its successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof by, through, or under Grantor, but not otherwise, subject only to the Permitted Encumbrances.

RP-2023-191426

Grantee's address is c/o Allen Boone Humphries Robinson LLP, 3200 Southwest Freeway, Suite 2600, Houston, Texas 77027.

*[Signature pages follow this page.]*

RP-2023-191426

EXECUTED this 20<sup>th</sup> day of April, 2023.

**GRANTOR:**

AHV SCHIEL BFR OWNER, LLC,  
a Delaware limited liability company

By: 

Name: Michael Seiden

Title: Authorized Signatory

**ACKNOWLEDGEMENT**

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA

§

COUNTY OF Orange

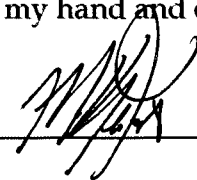
§

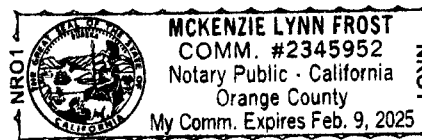
§

On April 20, 2023, before me, McKenzie Frost, Notary Public  
(insert name and title of officer), personally appeared Michael Seiden, Authorized Signatory, who proved to me on the basis of satisfactory evidence to be the person whose name is/are subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument, the person or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature 



(Seal)



EXECUTED by Grantee on the date set forth in the acknowledgment below, but AGREED to, ACCEPTED, and EFFECTIVE as of the date executed by Grantor.

**GRANTEE:**

**HARRIS COUNTY MUNICIPAL  
UTILITY DISTRICT NO. 531**

By: Paul White  
Name: PAUL R. White  
Title: President

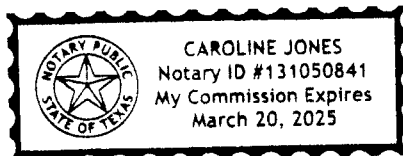
**ATTEST:**

By: Brad Wojcik  
Name: BRAD WOJCIK  
Title: SECRETARY

THE STATE OF TEXAS           §  
   §  
COUNTY OF Harris           §

This instrument was acknowledged before me on the 20<sup>th</sup> day of April, 2023, by Paul White, President, and Brad Wojcik, Secretary of the Board of Directors of HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 531, a political subdivision of the State of Texas, on behalf of said political subdivision.

(NOTARY SEAL)



Caroline Jones  
Notary Public, State of Texas

**Attachments:**

Exhibit A – Description of the Property

Exhibit B – Sketch of the Property

**After recording, please return to:**

Allen Boone Humphries Robinson LLP

3200 Southwest Freeway, Suite 2600

Houston, Texas 77027

Attention: Real Estate Department

RP-2023-191426

DESCRIPTION OF  
0.894 ACRE (38,956 SQUARE FEET)  
WASTE WATER TREATMENT PLANT

Being a 0.894 acre (38,956 square feet) tract of land out of the J.W. Moody Survey, Abstract 547, and the Daniel Schiel Survey, Abstract 1428, Harris County, Texas, more particular being a portion of that certain called 19.378 acre tract conveyed to AHV Schiel BFR Owner, LLC, by instrument of record in File Number RP-2022-607301, of the Official Public Records of Real Property, Harris County, Texas (H.C.O.P.R.R.P.), said 0.894 acre (38,956 square feet) being more particularly described by metes and bounds as follows: (Bearings based on the Texas State Plane Coordinate System, South Central Zone, 4204).

COMMENCING for reference at an axle found marking the northwest corner of said 19.378 acres, same being the southwest corner of that certain called 11.784 acre tract conveyed to 20239 Schiel, LLC, by instrument of record in File Number 20130602917, H.C.O.P.R.R.P, same being on the east line of Trails of Fairfield Section Six, a subdivision of record at Film Code No. 435136 of the Map Records of said Harris County (H.C.M.R.);

Thence, North 87° 49' 49" East, along the north line of said 19.378 acres and the south line of said 11.784 acres, 419.60 feet a 5/8-inch iron rod found marking the southeast corner of said 11.784 acres and the southwest corner of that certain called 25.132 acre tract conveyed to AHV Schiel BFR Owner, LLC, by instrument of record in File Number RP-2022-596619, H.C.O.P.R.R.P.;

Thence, South 02° 24' 27" East, departing the north line of said 19.378 acres, 80.53 feet to the POINT OF BEGINNING of the herein described tract;

Thence, South 02° 24' 27" East, 79.61 feet to a point for corner;

Thence, North 87° 44' 54" East, 27.51 feet to a point for corner;

Thence, South 18° 45' 40" East, 27.18 feet to a point for corner, the beginning of a curve;

0.894 acre

Job No. 2568-2005

Thence, 146.05 feet along the arc of a non-tangent curve to the left, having a radius of 60.00 feet, a central angle of  $139^{\circ} 28' 06''$ , and a chord which bears South  $18^{\circ} 56' 00''$  West, 112.57 feet to a point for corner;

Thence, South  $02^{\circ} 15' 11''$  East, 21.28 feet to a point for corner;

Thence, South  $87^{\circ} 44' 54''$  West, 28.27 feet to a point for corner;

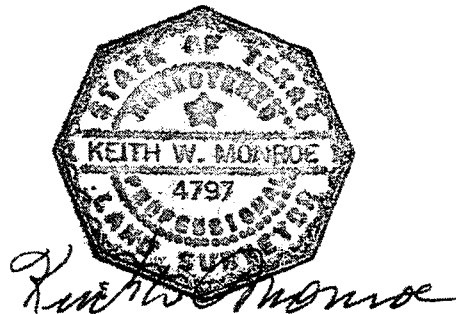
Thence, North  $02^{\circ} 15' 06''$  West, 83.42 feet to a point for corner;

Thence, South  $87^{\circ} 33' 43''$  West, 216.05 feet to a point for corner;

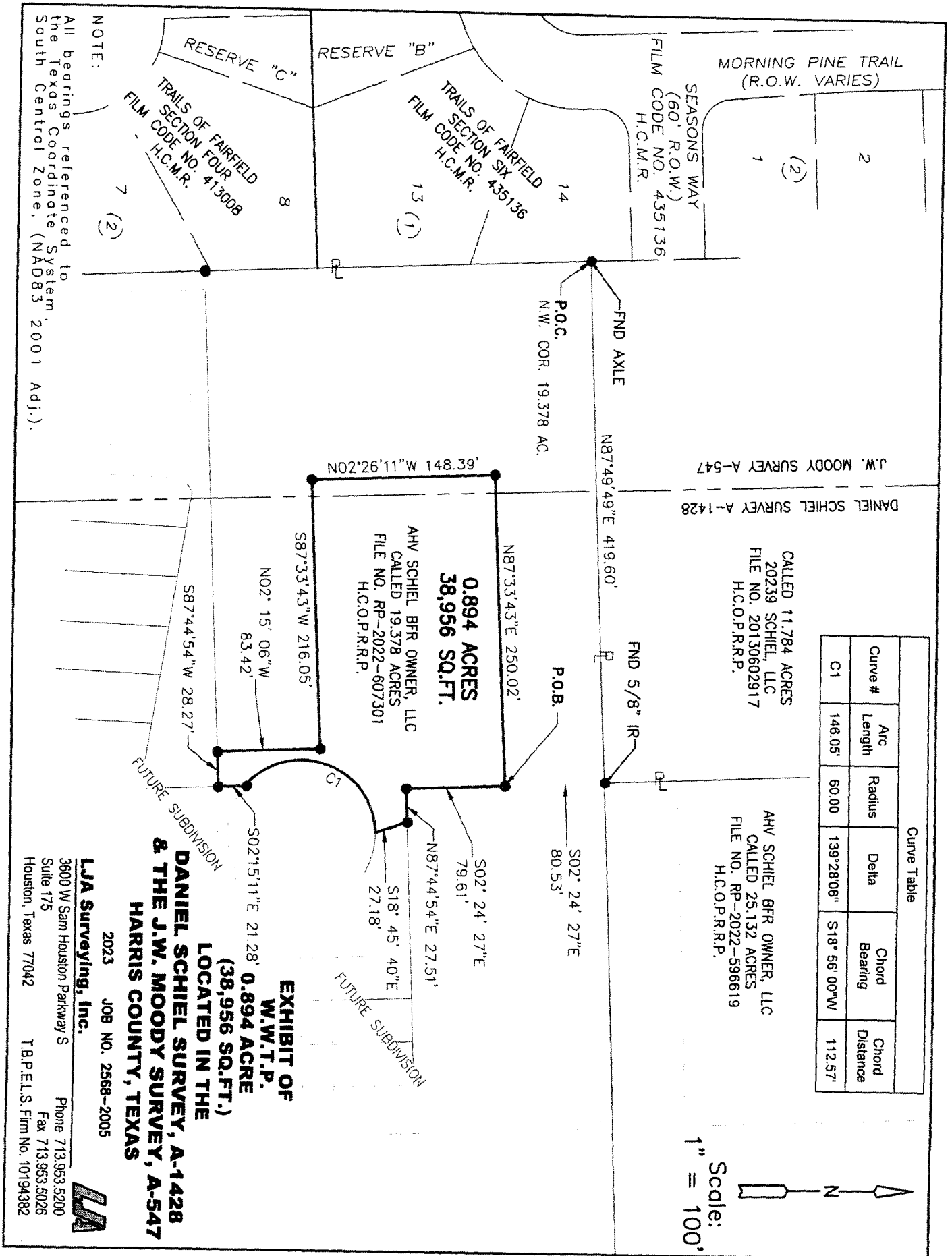
Thence, North  $02^{\circ} 26' 11''$  West, 148.39 feet to a point for corner;

Thence, North  $87^{\circ} 33' 43''$  East, 250.02 feet to the POINT OF BEGINNING and containing 0.894 acre (38,956 square feet) of land.

Corner monuments were not set at the client's request.



LJA Surveying, Inc



RP-2023-191426  
# Pages 9  
05/25/2023 10:02 AM  
e-Filed & e-Recorded in the  
Official Public Records of  
HARRIS COUNTY  
TENESHIA HUDSPETH  
COUNTY CLERK  
Fees \$46.00

RECORDERS MEMORANDUM

This instrument was received and recorded electronically  
and any blackouts, additions or changes were present  
at the time the instrument was filed and recorded.

Any provision herein which restricts the sale, rental, or  
use of the described real property because of color or  
race is invalid and unenforceable under federal law.  
THE STATE OF TEXAS  
COUNTY OF HARRIS

I hereby certify that this instrument was FILED in  
File Number Sequence on the date and at the time stamped  
hereon by me; and was duly RECORDED in the Official  
Public Records of Real Property of Harris County, Texas.



*Teneshia Hudspeth*  
COUNTY CLERK  
HARRIS COUNTY, TEXAS



## 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, a Public Involvement Plan is not necessary. Completion of the remaining sections not required.**

### Section 2. Secondary Screening

- ☒ Requires public notice,  
☒ Considered to have significant public interest, **and**  
☒ Located within any of the following geographical locations:
- Austin
  - San Antonio
  - Dallas
  - West Texas
  - Fort Worth
  - Texas Panhandle
  - Houston
  - Along the Texas/Mexico Border
  - Other geographical locations should be decided on a case-by-case basis

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

- ☐ 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  
          ☐ Radioactive Materials Licensing    ☐ Underground Injection Controls

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.

**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.**

Cypress  
(City)

Harris  
(County)



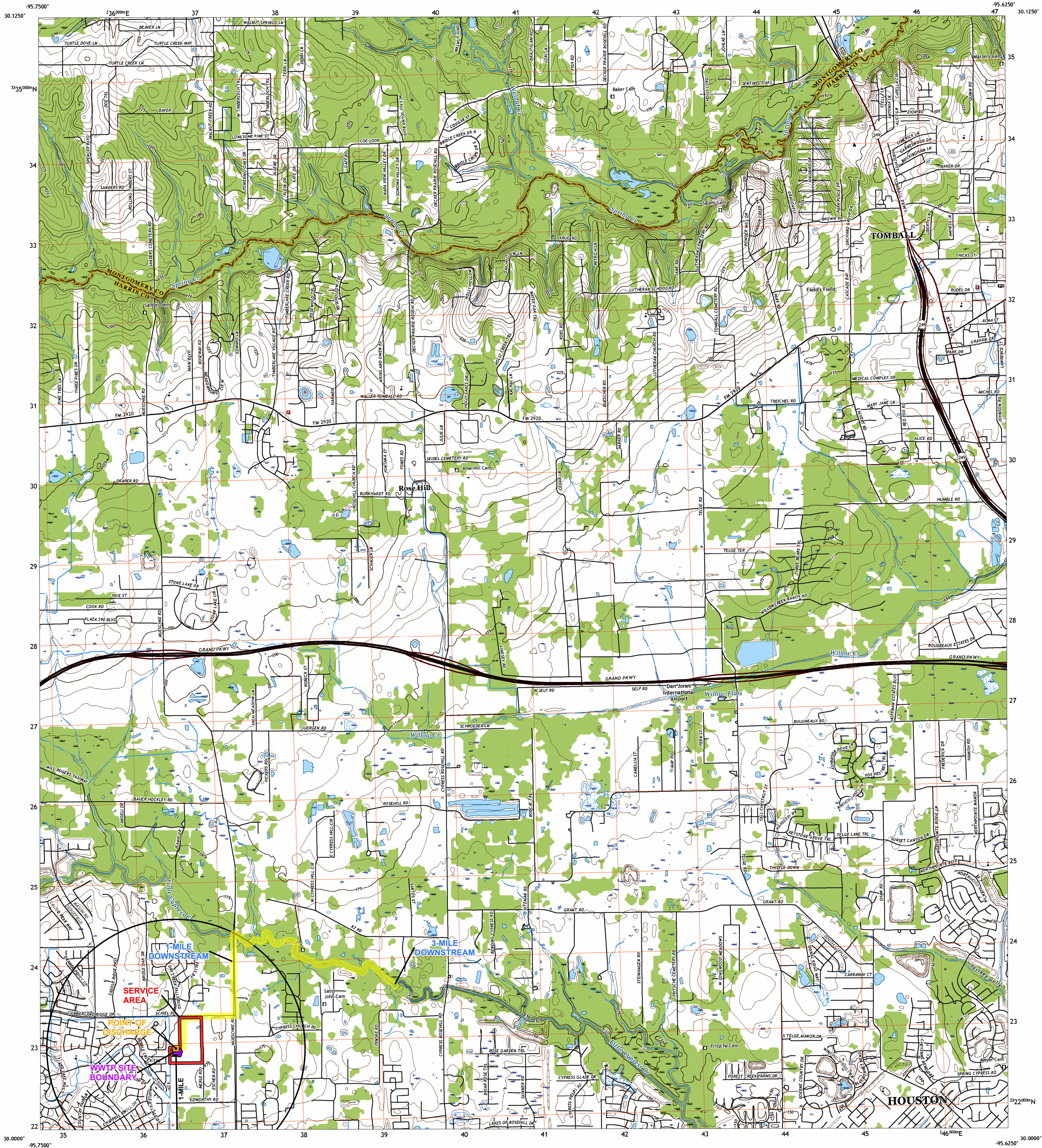
(Census Tract)  Please indicate which of these three is the level used for gathering the following information. <input type="checkbox"/> City <input checked="" type="checkbox"/> County <input type="checkbox"/> Census Tract
(a) Percent of people over 25 years of age who at least graduated from high school  <b>81.9%</b>
(b) Per capita income for population near the specified location  <b>35,103</b>
(c) Percent of minority population and percent of population by race within the specified location  <b>20.7% Black or African American 44.4% Hispanic or Latino</b>
(d) Percent of Linguistically Isolated Households by language within the specified location
(e) Languages commonly spoken in area by percentage  <b>44.5% Spanish 55.5% English</b>
(f) Community and/or Stakeholder Groups
(g) Historic public interest or involvement

<b>Section 6. Planned Public Outreach Activities</b>
(a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
(b) If yes, do you intend at this time to provide public outreach other than what is required by rule?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  If Yes, please describe.
<b>If you answered "yes" that this application is subject to 30 TAC Chapter 39, answering the remaining questions in Section 6 is not required.</b>
(c) Will you provide notice of this application in alternative languages?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  <b>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.</b>  If yes, how will you provide notice in alternative languages? <input checked="" type="checkbox"/> Publish in alternative language newspaper <input type="checkbox"/> Posted on Commissioner's Integrated Database Website

<input type="checkbox"/> Mailed by TCEQ's Office of the Chief Clerk <input type="checkbox"/> Other (specify)
(d) Is there an opportunity for some type of public meeting, including after notice? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
(e) If a public meeting is held, will a translator be provided if requested? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
(f) Hard copies of the application will be available at the following (check all that apply): <input type="checkbox"/> TCEQ Regional Office <input type="checkbox"/> TCEQ Central Office <input checked="" type="checkbox"/> Public Place (specify)

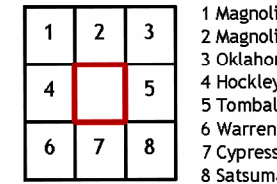
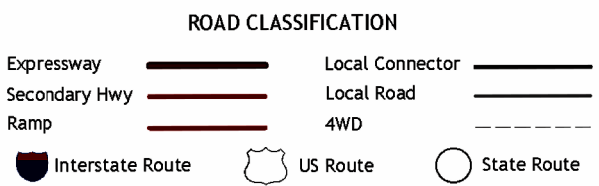
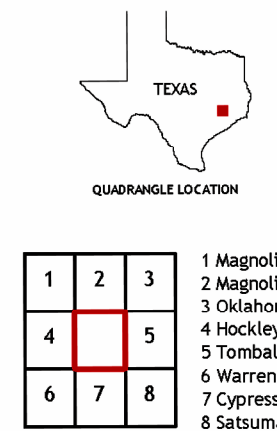
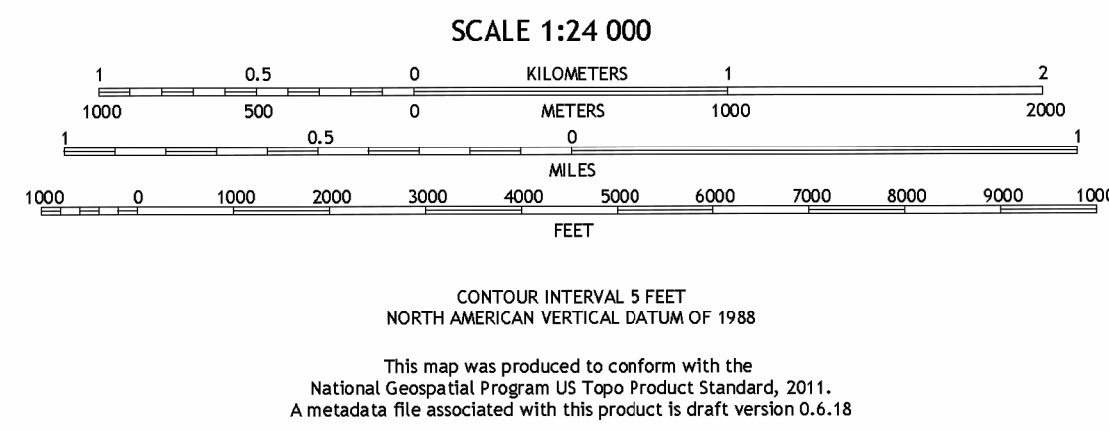
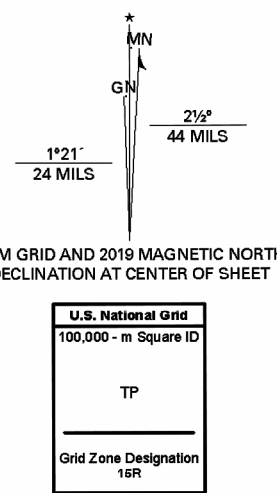
<b>Section 7. Voluntary Submittal</b>  For applicants voluntarily providing this Public Involvement Plan, who are not subject to formal public participation requirements.
Will you provide notice of this application, including notice in alternative languages? <input type="checkbox"/> Yes <input type="checkbox"/> No
What types of notice will be provided? <input type="checkbox"/> Publish in alternative language newspaper <input type="checkbox"/> Posted on Commissioner's Integrated Database Website <input type="checkbox"/> Mailed by TCEQ's Office of the Chief Clerk <input type="checkbox"/> Other (specify)



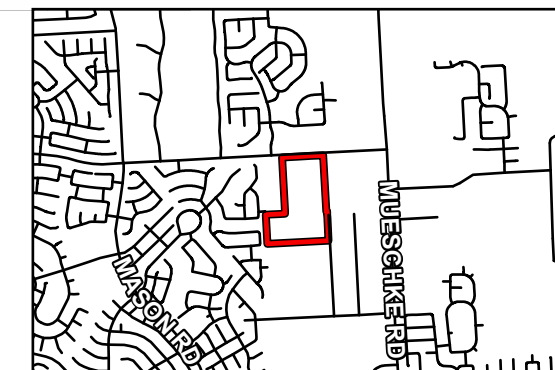


**Produced by the United States Geological Survey**  
North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84), Projection and  
1 000-meter grid/Universal Transverse Mercator, Zone 15R  
This map is not a legal document. Boundaries may be  
generalized for this map scale. Private lands within government  
reservations may not be shown. Obtain permission before  
entering private lands.

Imagery.....NAIP, September 2016 - November 2016  
Roads.....U.S. Census Bureau, 2015  
Names.....GNS, 1979 - 2018  
Hydrography.....National Hydrography Dataset, 2003 - 2018  
Contours.....National Elevation Dataset, 2010  
Boundaries.....Multiple sources; see metadata file 2016 - 2017  
Wetlands.....FWS National Wetlands Inventory 1993



ROSE HILL, TX  
2019



ATTACHMENT 3

**HARRIS COUNTY M.U.D. NO. 531 #2  
WWTP DISCHARGE PERMIT (1-MILE AND 3-MILE)  
USGS TOPOGRAPHIC MAP**

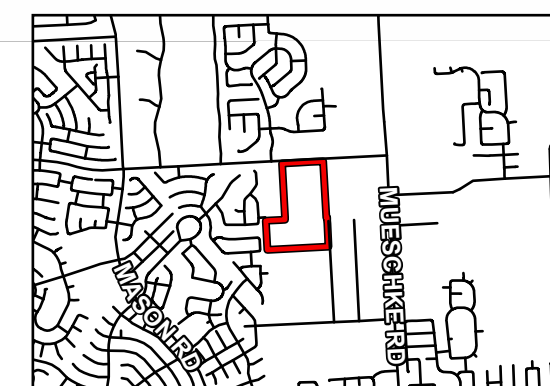
**LJA ENGINEERING**

3600 W Sam Houston Parkway S, Suite 600  
Houston, Texas 77042  
Phone 713.953.5200 TBP F-1386  
LJA.com

JUNE 2023 JOB NO: 2568-2004









HARRIS COUNTY  
M.U.D. 531 WWTP #2  
DISCHARGE PERMIT

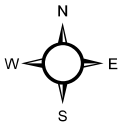
ATTACHMENT 3  
AFFECTED LANDOWNER EXHIBIT FOR  
APPLICANT BOUNDARY

JUNE 2023

LEGEND

- POINT OF DISCHARGE
- DISCHARGE ROUTE
- 150' BUFFER ZONE
- WWTP SERVICE AREA
- WWTP SITE BOUNDARY
- AFFECTED HOMEOWNERS
- PARCEL

DATA SOURCE: PARCEL - HARRIS COUNTY APPRAISAL DISTRICT  
(AUGUST 2022)



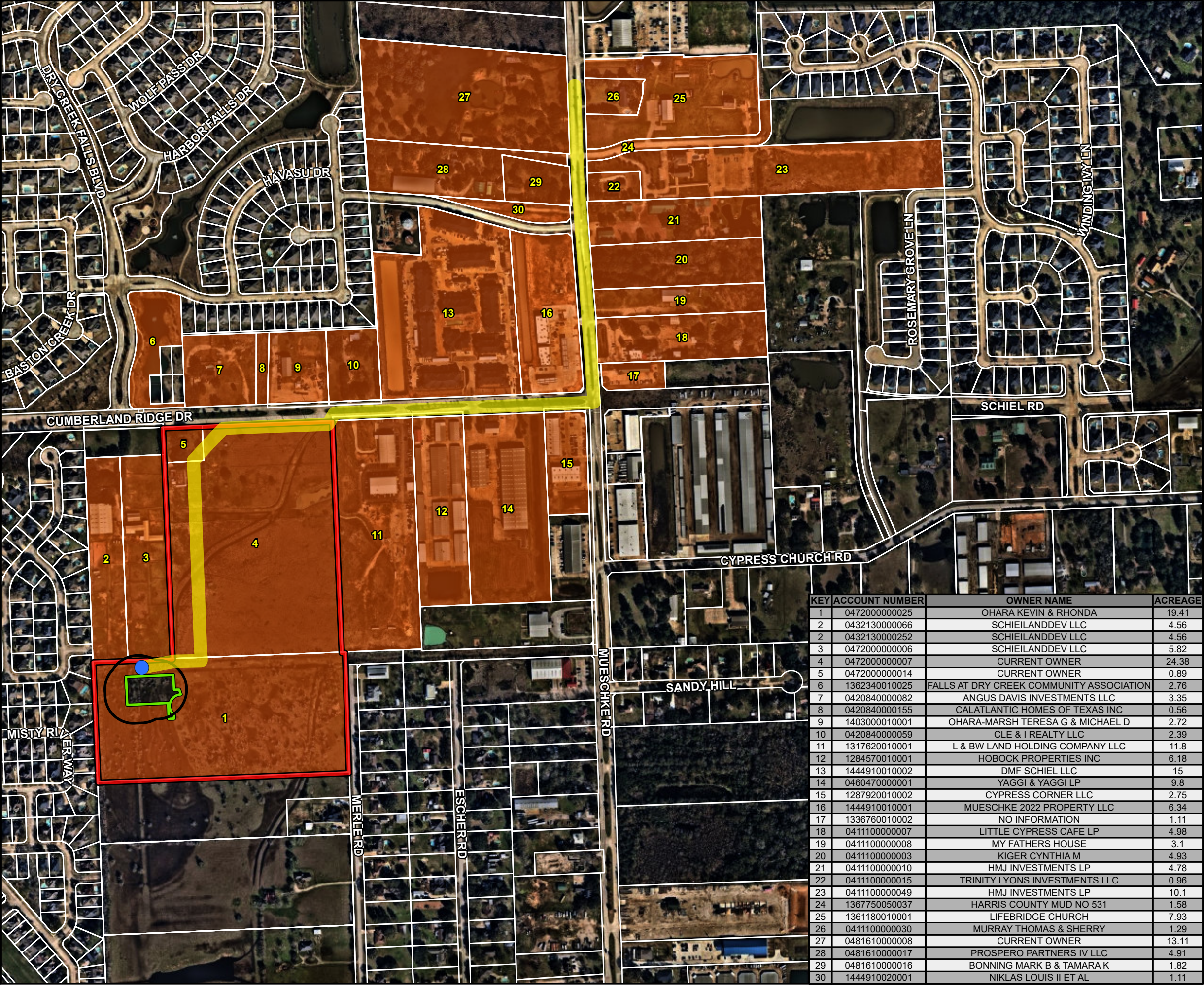
0 500 1,000  
FEET

AERIAL PHOTOGRAPH DATE: NEARMAP 2023

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HAVE BEEN PREPARED FOR OR BE SUITABLE FOR LEGAL,  
ENGINEERING, OR SURVEYING PURPOSES. IT DOES NOT  
REPRESENT AN ON-THE-GROUND SURVEY AND REPRESENTS ONLY  
THE APPROXIMATE RELATIVE LOCATION OF PROPERTY  
BOUNDARIES.



3600 W Sam Houston Parkway S, Suite 600  
Houston, Texas 77042  
Phone 713.953.5200 TBPE F-1386  
LJA.com



KEY	ACCOUNT NUMBER	OWNER NAME	ACREAGE
1	0472000000025	OHARA KEVIN & RHONDA	19.41
2	0432130000066	SCHIEILANDDEV LLC	4.56
2	0432130000252	SCHIEILANDDEV LLC	4.56
3	0472000000006	SCHIEILANDDEV LLC	5.82
4	0472000000007	CURRENT OWNER	24.38
5	0472000000014	CURRENT OWNER	0.89
6	1362340010025	FALLS AT DRY CREEK COMMUNITY ASSOCIATION	2.76
7	0420840000082	ANGUS DAVIS INVESTMENTS LLC	3.35
8	0420840000155	CALATLANTIC HOMES OF TEXAS INC	0.56
9	1403000010001	OHARA-MARSH TERESA G & MICHAEL D	2.72
10	0420840000059	CLE & I REALTY LLC	2.39
11	1317620010001	L & BW LAND HOLDING COMPANY LLC	11.8
12	1284570010001	HOBCK PROPERTIES INC	6.18
13	1444910010002	DMF SCHIEL LLC	15
14	0460470000001	YAGGI & YAGGI LP	9.8
15	1287920010002	CYPRESS CORNER LLC	2.75
16	1444910010001	MUESCHKE 2022 PROPERTY LLC	6.34
17	1336760010002	NO INFORMATION	1.11
18	0411100000007	LITTLE CYPRESS CAFE LP	4.98
19	0411100000008	MY FATHERS HOUSE	3.1
20	0411100000003	KIGER CYNTHIA M	4.93
21	0411100000010	HMJ INVESTMENTS LP	4.78
22	0411100000015	TRINITY LYONS INVESTMENTS LLC	0.96
23	0411100000049	HMJ INVESTMENTS LP	10.1
24	1367750050037	HARRIS COUNTY MUD NO 531	1.58
25	1361180010001	LIFEBRIDGE CHURCH	7.93
26	0411100000030	MURRAY THOMAS & SHERRY	1.29
27	0481610000008	CURRENT OWNER	13.11
28	0481610000017	PROSPERO PARTNERS IV LLC	4.91
29	0481610000016	BONNING MARK B & TAMARA K	1.82
30	1444910020001	NIKLAS LOUIS II ET AL	1.11

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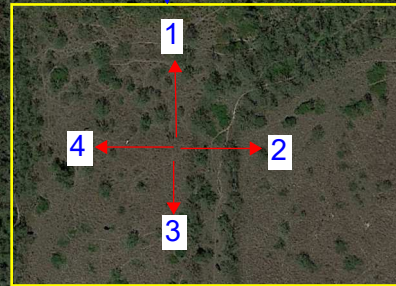


KEY	OWNER NAME	OWNER ADDRESS 1	OWNER ADDRESS 3
1	OHARA KEVIN & RHONDA	15855 MUESCHKE RD	CYPRESS, TX 77433-1465
2	SCHIEILANDDEV LLC	18518 MUESCHKE RD	CYPRESS, TX 77433
2	SCHIEILANDDEV LLC	18518 MUESCHKE RD	CYPRESS, TX 77433
3	SCHIEILANDDEV LLC	18518 MUESCHKE RD	CYPRESS, TX 77433
4	CURRENT OWNER	20231 SCHIEL RD	CYPRESS, TX 77433-4233
5	CURRENT OWNER	20231 SCHIEL RD	CYPRESS, TX 77433-4233
6	FALLS AT DRY CREEK COMMUNITY ASSOCIATION	17319 SAN PEDRO STE 318	SAN ANTONIO, TX 78232-1443
7	ANGUS DAVIS INVESTMENTS LLC	20228 SCHIEL RD	CYPRESS, TX 77433-4226
8	CALATLANTIC HOMES OF TEXAS INC	681 GREENS PKY STE 220	HOUSTON, TX 77067-4544
9	OHARA-MARSH TERESA G & MICHAEL D	20204 SCHIEL RD	CYPRESS, TX 77433-4226
10	CLE & I REALTY LLC	13523 HARGRAVE RD	HOUSTON, TX 77070-3829
11	L & BW LAND HOLDING COMPANY LLC	24011 RUSTLING OAKS	MAGNOLIA, TX 77355-3720
12	HOBOKK PROPERTIES INC	2722 QUINCANNON LN	HOUSTON, TX 77043-1604
13	DMF SCHIEL LLC	2253 N LOOP 336 W STE C	CONROE, TX 77304-3630
14	YAGGI & YAGGI LP	20101 SCHIEL RD	CYPRESS, TX 77433-4234
15	CYPRESS CORNER LLC	16331 DEXTER POINT DR	CYPRESS, TX 77429-8030
16	MUESCHKE 2022 PROPERTY LLC	21021 SPRING BROOK PLAZA DR STE 215	SPRING, TX 77379-5340
17	NO INFORMATION		
18	LITTLE CYPRESS CAFE LP	8423 WESTVIEW DR	HOUSTON, TX 77055-4801
19	MY FATHERS HOUSE	16420 MUESCHKE RD	CYPRESS, TX 77433-1403
20	KIGER CYNTHIA M	16530 MUESCHKE RD	CYPRESS, TX 77433-1486
21	HMJ INVESTMENTS LP	16536 MUESCHKE RD	SPRING, TX 77379-
22	TRINITY LYONS INVESTMENTS LLC	16602 MUESCHKE RD	CYPRESS, TX 77433-1487
23	HMJ INVESTMENTS LP	16536 MUESCHKE RD	CYPRESS, TX 77433-1486
24	HARRIS COUNTY MUD NO 531	PO BOX 1368	FRIENDSWOOD, TX 77549-1368
25	LIFEBRIDGE CHURCH	PO BOX 2390	CYPRESS, TX 77410-2390
26	MURRAY THOMAS & SHERRY	16610 MUESCHKE RD	CYPRESS, TX 77433-1487
27	CURRENT OWNER	615 NORTH LOOP EAST STE 200	HOUSTON, TX 77022-5934
28	PROSPERO PARTNERS IV LLC	16615 MUESCHKE RD	CYPRESS, TX 77433-1493
29	BONNING MARK B & TAMARA K	16607 MUESCHKE RD	CYPRESS, TX 77433-1493
30	NIKLAS LOUIS II ET AL	11907 WINDFERN	HOUSTON, TX 77064-3200



WWTP SITE

DISHCHARGE POINT





1.



2.





3.



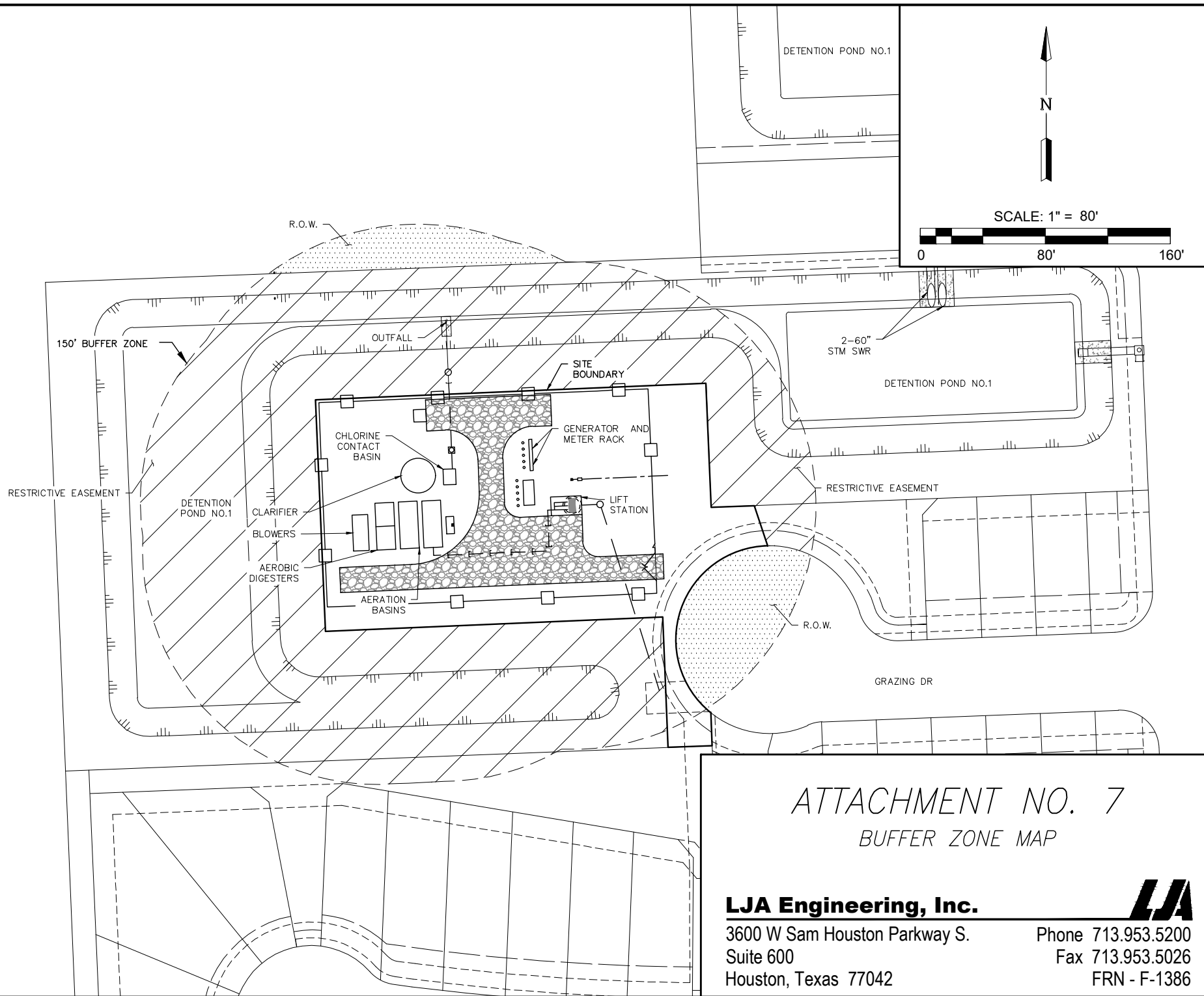
4.



5.







## ATTACHMENT NO. 7

### BUFFER ZONE MAP

#### **LJA Engineering, Inc.**

3600 W Sam Houston Parkway S.  
Suite 600  
Houston, Texas 77042



Phone 713.953.5200  
Fax 713.953.5026  
FRN - F-1386

**ATTACHMENT 8**  
**DESCRIPTION OF THE TREATMENT PROCESS**

(In reference to Domestic Technical Report 1.0, Section 2, Item A)

The treatment system includes a package plant employing the activated sludge process operating in the complete mix mode. The plant will be developed in two phases and will include one treatment train when complete. Phase 1 and the ultimate phase will have a capacity of 0.05 MGD and 0.10 MGD average daily flow respectively. In the Ultimate phase, the plant will have a common header between the aeration basins and clarifier to allow for flexibility in plant repairs and operations. Since the chlorine contact basin will be sized for the ultimate phase, the two planned phases will have a common outfall and sampling point.

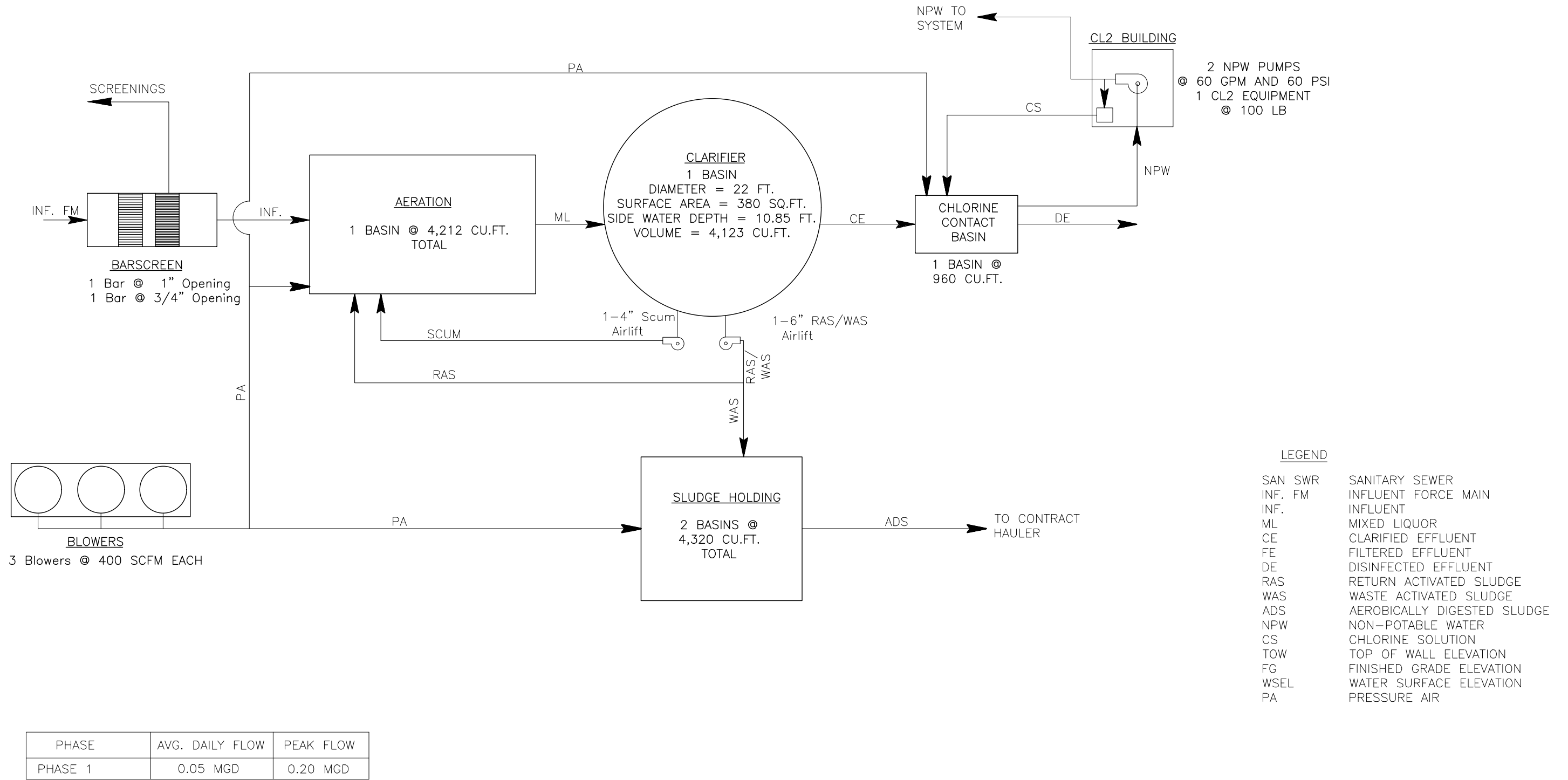
The completed treatment train will consist of steel "box car" units used for aeration and digestion. One aeration basin, one split sludge digestion basin, one 22' diameter clarifier and one chlorine contact basin will be fabricated for phase 1. The ultimate phase will include an additional aeration basin, but will utilize the phase 1 clarifier, chlorine contact basin and split digestion basin.

Influent to this facility will be pumped from the on-site lift station to a bar screen. In the ultimate phase, the bar screen will include a flow splitter thus splitting the influent to each bank of aeration basins. The mixed liquor from the aeration basins will flow to the clarifier. The clarified effluent from the clarifier will then flow to the chlorine contact basin and the disinfected plant effluent will outfall via a 24" pipe to a detention pond. Sludge will be returned to the aeration basins then wasted to the digester basins via air lifts. Sludge from the digesters will be truck hauled to another WWTP for dewatering before being disposed at a registered disposal site.

Attachment No. 9			
Treatment Units	# of Units	Dimensions (L*W*D) (ft.)	
<b>Aeration Basin</b>	1	30*12*13.2	INTERIM PHASE 1 0.05 MGD
<b>Clarifier</b>	1	22*Dia*14	
<b>Cl2 Contact Basin</b>	1	10*8*13	
<b>Aerobic Digester</b>	2	27*12*12	
Aeration Basin	1	30*12*13.2	ULTIMATE PHASE 2 0.10 MGD
<b>Aeration Basin</b>	1	30*12*13.2	
Clarifier	1	22*Dia*14	
Cl2 Contact Basin	1	10*8*13	
Aerobic Digester	2	27*12*12	

<b>Bolded</b>	New processes
Shaded	Existing processes

Date\Time : Tue, 11 Apr 2023 - 5:42pm User Name : svelez  
Path\Name : W:\LAND\2568\2005 - HCMUD 531 WwTP 2 Permit\Application\CAD\Process\_Flow\_Diagrams.dwg



**ATTACHMENT 10.1**  
**PROCESS FLOW DIAGRAM**  
**INTERIM PHASE 1 - 0.05 MGD**

**LJA Engineering, Inc.**

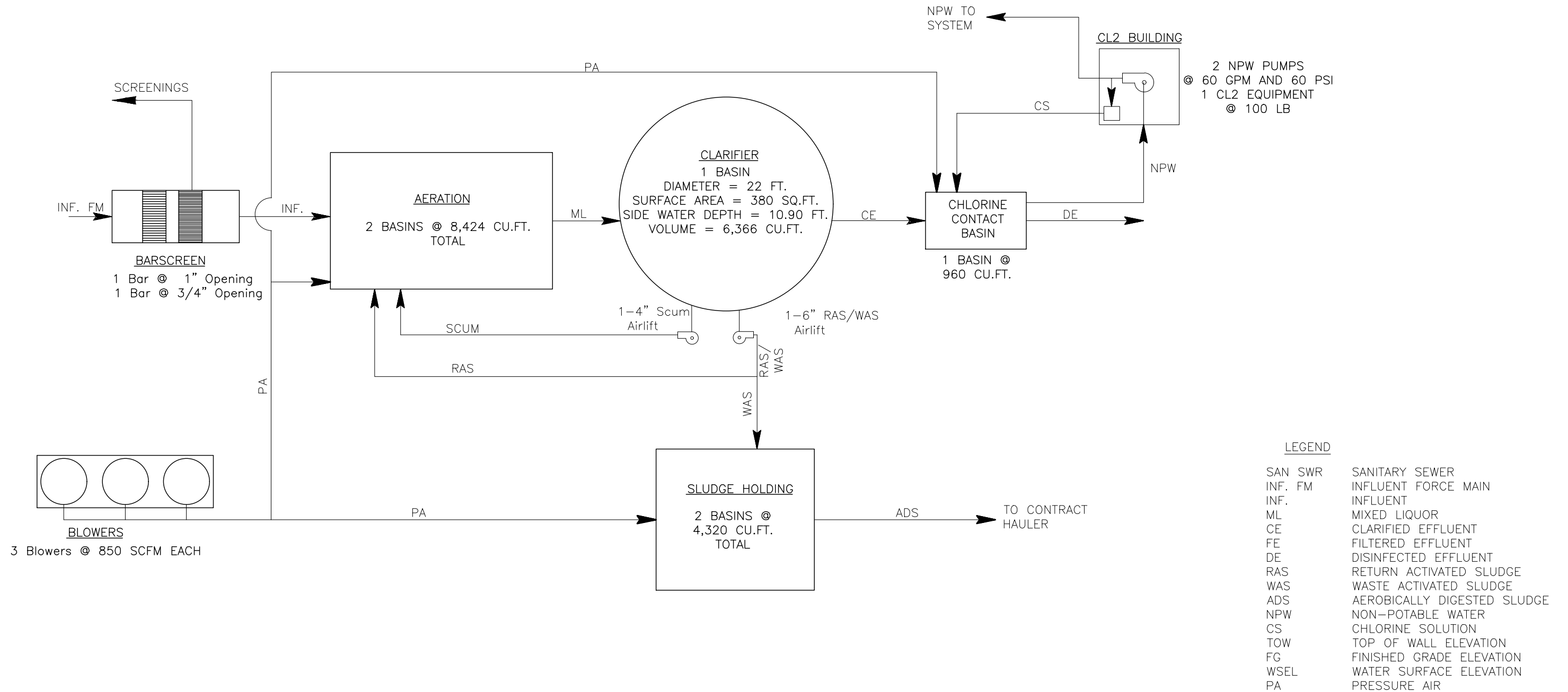
3600 W Sam Houston Parkway S.  
Suite 600  
Houston, Texas 77042

Phone 713.953.5200  
Fax 713.953.5026

FRN - F-1386

HCM\_000088

Date\Time : Mon, 18 Dec 2023 - 5:40pm User Name : svelez  
Path\Name : W:\LAND\2568\2005 - HCMUD 531 WwTP 2 Permit\Application\CAD\Process\_Flow\_Diagrams.dwg



PHASE	AVG. DAILY FLOW	PEAK FLOW
PHASE 1	0.05 MGD	0.20 MGD
PHASE 2	0.10 MGD	0.40 MGD

ATTACHMENT 10.2  
PROCESS FLOW DIAGRAM  
(ULTIMATE) PHASE 2 - 0.10 MGD

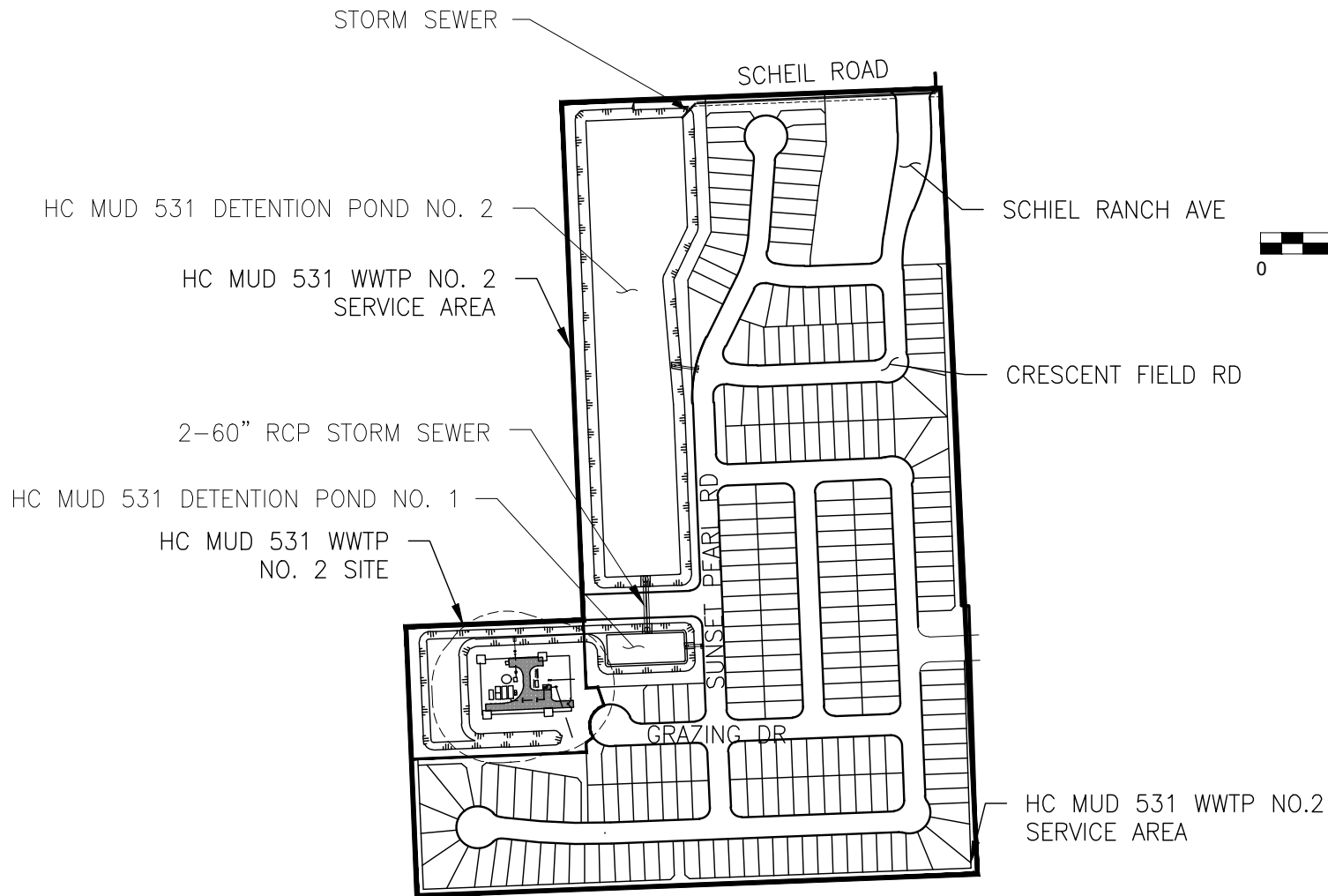
**LJA Engineering, Inc.**

3600 W Sam Houston Parkway S.  
Suite 600  
Houston, Texas 77042

Phone 713.953.5200  
Fax 713.953.5026

FRN - F-1386

HCM\_000089



# ATTACHMENT NO. 11 SITE DRAWING

**LJA Engineering, Inc.**

3600 W Sam Houston Parkway S  
 Suite 600  
 Houston, Texas 77042

Phone 713.953.5200  
 Fax 713.953.5026  
 FRN - F-1386





Attachment 12  
Monthly Projections and Corresponding Influent

											1	
Year 1	5/1/2024	6/1/2024	7/1/2024	8/1/2024	9/1/2024	10/1/2024	11/1/2024	12/1/2024	1/1/2025	2/1/2025	3/1/2025	4/1/2025
Res. Connections	0	15	30	45	60	75	90	105	120	135	150	165
Flow at 300 GPD per conn.	0	4,500	9,000	13,500	18,000	22,500	27,000	31,500	36,000	40,500	45,000	49,500
2												
Year 2	5/1/2025	6/1/2025	7/1/2025	8/1/2025	9/1/2025	10/1/2025	11/1/2025	12/1/2025	1/1/2026	2/1/2026	3/1/2026	
Res. Connections	180	195	210	225	240	255	270	285	300	315	330	
Flow at 300 GPD per conn.	54,000	58,500	63,000	67,500	72,000	76,500	81,000	85,500	90,000	94,500	99,000	

1.) 90% of phase 1 flow (0.05 MGD), Proposed Phase 2 (0.10 MGD) construction begins



HARRIS COUNTY  
M.U.D. 531 WWTP #2  
DISCHARGE PERMIT

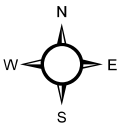
ATTACHMENT 13  
NEARBY DOMESTIC PERMITTED WWTFs  
(WITHIN 3-MILE RADIUS)

MARCH 2023

LEGEND

- POINT OF DISCHARGE
- WASTEWATER OUTFALLS
- 3-MILE RADIUS
- SITE BOUNDARY
- HARRIS COUNTY MUD 531 BOUNDARY

DATA SOURCE: TCEQ OUTFALLS - UPDATED MAY 2022



0 0.75 1.5  
MILES

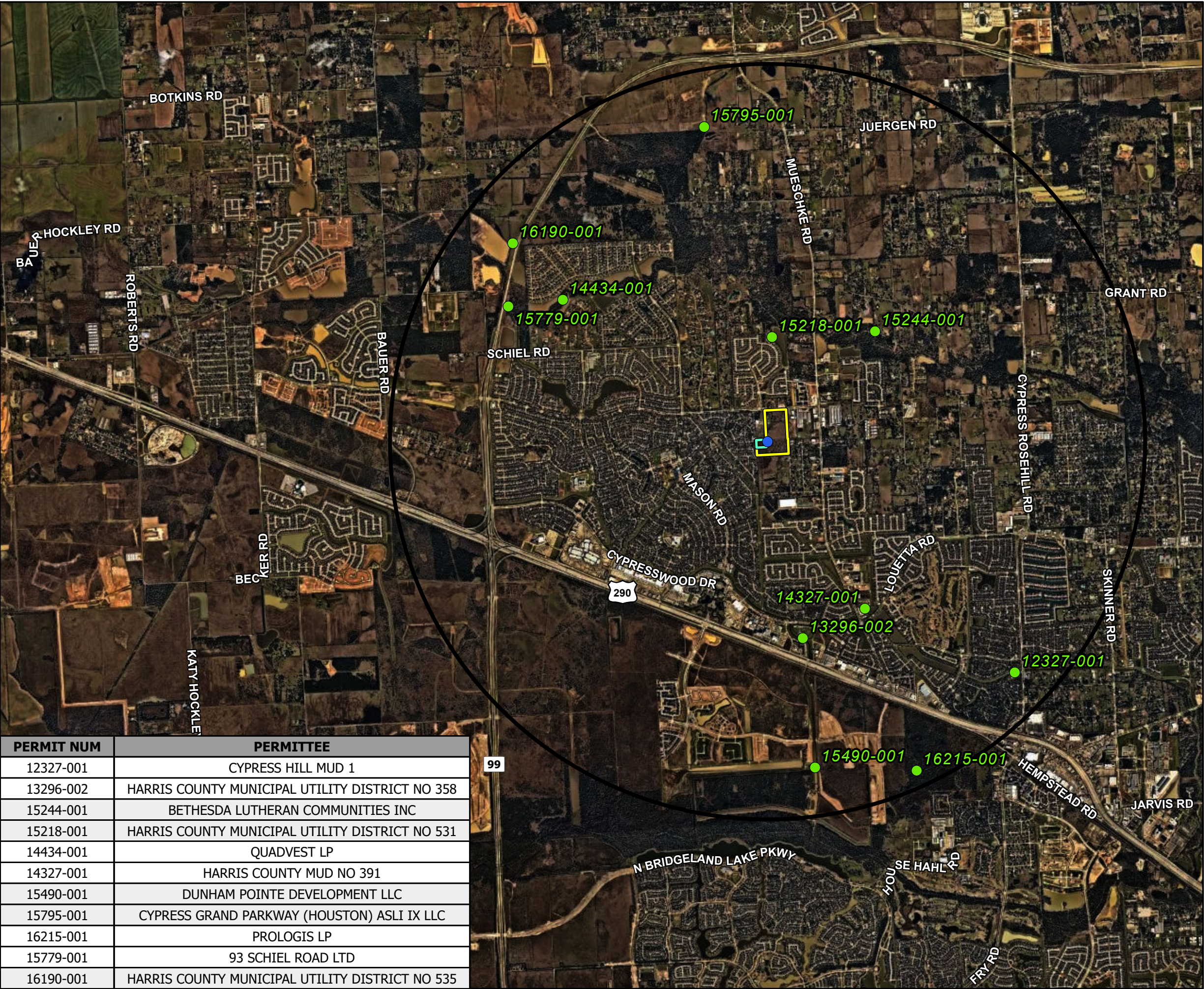
AERIAL PHOTOGRAPH DATE: NEARMAP 2023

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ENGINEERING, OR SURVEYING PURPOSES. IT DOES NOT REPRESENT  
AN ON-THE-GROUND SURVEY AND REPRESENTS ONLY THE  
APPROXIMATE RELATIVE LOCATION OF PROPERTY BOUNDARIES.



3600 W Sam Houston Parkway S, Suite 600  
Houston, Texas 77042  
Phone 713.953.5200 TBPE F-1386  
LJA.com

PERMIT NUM	PERMITTEE
12327-001	CYPRESS HILL MUD 1
13296-002	HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO 358
15244-001	BETHESDA LUTHERAN COMMUNITIES INC
15218-001	HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO 531
14434-001	QUADVEST LP
14327-001	HARRIS COUNTY MUD NO 391
15490-001	DUNHAM POINTE DEVELOPMENT LLC
15795-001	CYPRESS GRAND PARKWAY (HOUSTON) ASLI IX LLC
16215-001	PROLOGIS LP
15779-001	93 SCHIEL ROAD LTD
16190-001	HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO 535





April 5, 2023

**VIA CERTIFIED MAIL**

Harris County MUD 535  
3200 Southwest Freeway, Ste. 2600  
Houston, Texas 77027

Re: Wastewater Service Request for Harris County Municipal Utility District No. 531 WWTP  
No. 2  
LJA Job No. 2568-2005 (2.0)

To Whom It May Concern:

We are currently preparing a new permit application for the discharge permit for the Harris County Municipal Utility District No. 531 WWTP No. 2, in Harris County. The proposed development will require 0.10 MGD of wastewater service capacity. TCEQ regulations require us to contact all entities with a permitted wastewater treatment plant within three (3) miles of our plant, and to identify any available capacity at those facilities. Your referred wastewater treatment plant is within a three (3) mile radius from our facility. Please let us know if you have the extra capacity in your facility to accommodate the required flow or are willing to expand your facility to accommodate this flow.

Please respond in writing or indicating below on this letter if the Harris County MUD 535 Wastewater Treatment Plant with TPDES Permit No. WQ0016190001 has available capacity. After you have made the required indication, please email (svelez@lja.com) or mail the response back. We would appreciate a response within ten (10) days. Thank you in advance for your prompt attention regarding this matter.

Sincerely,

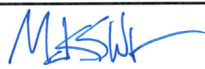


Sarah Velez, PE.  
Assistant Project Manager

SV/

- ☐ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: \_\_\_\_\_
- ☒ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: Mark Shelfer, P.E. Title: District Engineer

Signature:  Date: 4/17/2023



3600 W Sam Houston Pkwy S, Suite 600, Houston, Texas 77042  
t 7139535200 LJA.com TBPE F-1386 TBPLS 10110501

April 5, 2023

VIA CERTIFIED MAIL

Harris County Municipal Utility District 358  
3200 Southwest Freeway, Ste. 2600  
Houston, Texas 77027

Re: Wastewater Service Request for Harris County Municipal Utility District No. 531 WWTP  
No. 2  
LJA Job No. 2568-2005 (2.0)

To Whom It May Concern:

We are currently preparing a new permit application for the discharge permit for the Harris County Municipal Utility District No. 531 WWTP No. 2, in Harris County. The proposed development will require 0.10 MGD of wastewater service capacity. TCEQ regulations require us to contact all entities with a permitted wastewater treatment plant within three (3) miles of our plant, and to identify any available capacity at those facilities. Your referred wastewater treatment plant is within a three (3) mile radius from our facility. Please let us know if you have the extra capacity in your facility to accommodate the required flow or are willing to expand your facility to accommodate this flow.

Please respond in writing or indicating below on this letter if the Fairfield Village Wastewater Treatment Plant with TPDES Permit No. WQ0013296002 has available capacity. After you have made the required indication, please email (svelez@lja.com) or mail the response back. We would appreciate a response within ten (10) days. Thank you in advance for your prompt attention regarding this matter.

Sincerely,

Sarah Velez, PE.  
Assistant Project Manager

SV/

- ☐ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: \_\_\_\_\_
- ☒ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: CINDY FIELDS Title: DIST. ENG  
Signature: Cindy Fields Date: 4-12-23



3600 W Sam Houston Pkwy S, Suite 600, Houston, Texas 77042  
t 713.953.5200 LJA.com TBPE F-1386 TBPLS 10110501

April 5, 2023

VIA CERTIFIED MAIL

Quadvest, L.P.  
26926 FM 2978  
Magnolia, TX 77354

Re: Wastewater Service Request for Harris County Municipal Utility District No. 531 WWTP  
No. 2  
LJA Job No. 2568-2005 (2.0)

To Whom It May Concern:

We are currently preparing a new permit application for the discharge permit for the Harris County Municipal Utility District No. 531 WWTP No. 2, in Harris County. The proposed development will require 0.10 MGD of wastewater service capacity. TCEQ regulations require us to contact all entities with a permitted wastewater treatment plant within three (3) miles of our plant, and to identify any available capacity at those facilities. Your referred wastewater treatment plant is within a three (3) mile radius from our facility. Please let us know if you have the extra capacity in your facility to accommodate the required flow or are willing to expand your facility to accommodate this flow.

Please respond in writing or indicating below on this letter if the Lakes of Fairhaven Wastewater Treatment Plant with TPDES Permit No. WQ0014434001 has available capacity. After you have made the required indication, please email (svelez@lja.com) or mail the response back. We would appreciate a response within ten (10) days. Thank you in advance for your prompt attention regarding this matter.

Sincerely,

Sarah Velez, PE.  
Assistant Project Manager

SV/

- ☐ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: \_\_\_\_\_
- ☒ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: MARK L. ULIZBAK Title: VP - CONST. & ENG.

Signature: [Handwritten Signature] Date: 4/13/23



April 5, 2023

**VIA CERTIFIED MAIL**

Harris County MUD 391  
3200 Southwest Freeway, Ste. 2600  
Houston, Texas 77027

Re: Wastewater Service Request for Harris County Municipal Utility District No. 531 WWTP  
No. 2  
LJA Job No. 2568-2005 (2.0)

To Whom It May Concern:

We are currently preparing a new permit application for the discharge permit for the Harris County Municipal Utility District No. 531 WWTP No. 2, in Harris County. The proposed development will require 0.10 MGD of wastewater service capacity. TCEQ regulations require us to contact all entities with a permitted wastewater treatment plant within three (3) miles of our plant, and to identify any available capacity at those facilities. Your referred wastewater treatment plant is within a three (3) mile radius from our facility. Please let us know if you have the extra capacity in your facility to accommodate the required flow or are willing to expand your facility to accommodate this flow.

Please respond in writing or indicating below on this letter if the Harris County MUD 391 Wastewater Treatment Plant with TPDES Permit No. WQ0014327001 has available capacity. After you have made the required indication, please email (svelez@lja.com) or mail the response back. We would appreciate a response within ten (10) days. Thank you in advance for your prompt attention regarding this matter.

Sincerely,



Sarah Velez, PE.  
Assistant Project Manager

SV/

- ☐ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: \_\_\_\_\_
- ☒ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: Justin S. Wagner Title: Market Sector Leader

Signature: Justin S. Wagner Date: 4/13/23



3600 W Sam Houston Pkwy S, Suite 600, Houston, Texas 77042  
t 713.953.5200 LJA.com TBPE F-1386 TBPLS 10110501

April 5, 2023

VIA CERTIFIED MAIL

Cypress Hill MUD 1  
1301 McKinney Street Ste. 5100  
Houston, Texas 77010

Re: Wastewater Service Request for Harris County Municipal Utility District No. 531 WWTP  
No. 2  
LJA Job No. 2568-2005 (2.0)

To Whom It May Concern:

We are currently preparing a new permit application for the discharge permit for the Harris County Municipal Utility District No. 531 WWTP No. 2, in Harris County. The proposed development will require 0.10 MGD of wastewater service capacity. TCEQ regulations require us to contact all entities with a permitted wastewater treatment plant within three (3) miles of our plant, and to identify any available capacity at those facilities. Your referred wastewater treatment plant is within a three (3) mile radius from our facility. Please let us know if you have the extra capacity in your facility to accommodate the required flow or are willing to expand your facility to accommodate this flow.

Please respond in writing or indicating below on this letter if the Cypress Hill MUD 1 Wastewater Treatment Plant with TPDES Permit No. WQ0012327001 has available capacity. After you have made the required indication, please email (svelez@lja.com) or mail the response back. We would appreciate a response within ten (10) days. Thank you in advance for your prompt attention regarding this matter.

Sincerely,

Sarah Velez, PE.  
Assistant Project Manager

SV/

- ☐ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: \_\_\_\_\_
- ☐ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



April 5, 2023

VIA CERTIFIED MAIL

Harris County Municipal Utility District 358  
3200 Southwest Freeway, Ste. 2600  
Houston, Texas 77027

Re: Wastewater Service Request for Harris County Municipal Utility District No. 531 WWTP  
No. 2  
LJA Job No. 2568-2005 (2.0)

To Whom It May Concern:

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Sincerely,

Sarah Velez, PE.  
Assistant Project Manager

SV/

- ☐ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: \_\_\_\_\_
- ☐ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_





April 5, 2023

VIA CERTIFIED MAIL

Bethesda Lutheran Communities, Inc  
18937 Kz Road  
Cypress, TX 77433

Re: Wastewater Service Request for Harris County Municipal Utility District No. 531 WWTP  
No. 2  
LJA Job No. 2568-2005 (2.0)

To Whom It May Concern:

We are currently preparing a new permit application for the discharge permit for the Harris County Municipal Utility District No. 531 WWTP No. 2, in Harris County. The proposed development will require 0.10 MGD of wastewater service capacity. TCEQ regulations require us to contact all entities with a permitted wastewater treatment plant within three (3) miles of our plant, and to identify any available capacity at those facilities. Your referred wastewater treatment plant is within a three (3) mile radius from our facility. Please let us know if you have the extra capacity in your facility to accommodate the required flow or are willing to expand your facility to accommodate this flow.

Please respond in writing or indicating below on this letter if the Bethesda Lutheran Wastewater Treatment Plant with TPDES Permit No. WQ0015244001 has available capacity. After you have made the required indication, please email (svelez@lja.com) or mail the response back. We would appreciate a response within ten (10) days. Thank you in advance for your prompt attention regarding this matter.

Sincerely,

Sarah Velez, PE.  
Assistant Project Manager

SV/

- ☐ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: \_\_\_\_\_
- ☐ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



3600 W Sam Houston Pkwy S, Suite 600, Houston, Texas 77042  
t 713.953.5200 LJA.com TBPE F-1386 TBPLS 10110501

April 5, 2023

VIA CERTIFIED MAIL

Quadvest, L.P.  
26926 FM 2978  
Magnolia, TX 77354

Re: Wastewater Service Request for Harris County Municipal Utility District No. 531 WWTP  
No. 2  
LJA Job No. 2568-2005 (2.0)

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Sincerely,

Sarah Velez, PE.  
Assistant Project Manager

SV/

- ☐ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: \_\_\_\_\_
- ☐ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



3600 W Sam Houston Pkwy S, Suite 600, Houston, Texas 77042  
t 713.953.5200 LJA.com TBPE F-1386 TBPLS 10110501

April 5, 2023

VIA CERTIFIED MAIL

Harris County MUD 391  
3200 Southwest Freeway, Ste. 2600  
Houston, Texas 77027

Re: Wastewater Service Request for Harris County Municipal Utility District No. 531 WWTP  
No. 2  
LJA Job No. 2568-2005 (2.0)

To Whom It May Concern:

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Please respond in writing or indicating below on this letter if the Harris County MUD 391 Wastewater Treatment Plant with TPDES Permit No. WQ0014327001 has available capacity. After you have made the required indication, please email (svelez@lja.com) or mail the response back. We would appreciate a response within ten (10) days. Thank you in advance for your prompt attention regarding this matter.

Sincerely,

Sarah Velez, PE.  
Assistant Project Manager

SV/

- ☐ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: \_\_\_\_\_
- ☐ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



3600 W Sam Houston Pkwy S, Suite 600, Houston, Texas 77042  
t 713.953.5200 LJA.com TBPE F-1386 TBPLS 10110501

April 5, 2023

VIA CERTIFIED MAIL

Dunham Pointe Development LLC  
1305 Afton Street  
Houston, TX 77055

Re: Wastewater Service Request for Harris County Municipal Utility District No. 531 WWTP  
No. 2  
LJA Job No. 2568-2005 (2.0)

To Whom It May Concern:

We are currently preparing a new permit application for the discharge permit for the Harris County Municipal Utility District No. 531 WWTP No. 2, in Harris County. The proposed development will require 0.10 MGD of wastewater service capacity. TCEQ regulations require us to contact all entities with a permitted wastewater treatment plant within three (3) miles of our plant, and to identify any available capacity at those facilities. Your referred wastewater treatment plant is within a three (3) mile radius from our facility. Please let us know if you have the extra capacity in your facility to accommodate the required flow or are willing to expand your facility to accommodate this flow.

Please respond in writing or indicating below on this letter if the Harris County Improvement District 13 Wastewater Treatment Plant with TPDES Permit No. WQ0015490001 has available capacity. After you have made the required indication, please email (svelez@lja.com) or mail the response back. We would appreciate a response within ten (10) days. Thank you in advance for your prompt attention regarding this matter.

Sincerely,

Sarah Velez, PE.  
Assistant Project Manager

SV/

- ☐ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: \_\_\_\_\_
- ☐ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



3600 W Sam Houston Pkwy S, Suite 600, Houston, Texas 77042  
t 713.953.5200 LJA.com TBPE F-1386 TBPLS 10110501

April 5, 2023

VIA CERTIFIED MAIL

Cypress Grand Parkway (Houston) ASLI IX, LLC923  
N Pennsylvania Ave  
Winter Park, FL 32789

Re: Wastewater Service Request for Harris County Municipal Utility District No. 531 WWTP  
No. 2  
LJA Job No. 2568-2005 (2.0)

To Whom It May Concern:

We are currently preparing a new permit application for the discharge permit for the Harris County Municipal Utility District No. 531 WWTP No. 2, in Harris County. The proposed development will require 0.10 MGD of wastewater service capacity. TCEQ regulations require us to contact all entities with a permitted wastewater treatment plant within three (3) miles of our plant, and to identify any available capacity at those facilities. Your referred wastewater treatment plant is within a three (3) mile radius from our facility. Please let us know if you have the extra capacity in your facility to accommodate the required flow or are willing to expand your facility to accommodate this flow.

Please respond in writing or indicating below on this letter if the Harris County MUD District 441 Wastewater Treatment Plant with TPDES Permit No. WQ0015795001 has available capacity. After you have made the required indication, please email (svelez@lja.com) or mail the response back. We would appreciate a response within ten (10) days. Thank you in advance for your prompt attention regarding this matter.

Sincerely,

Sarah Velez, PE.  
Assistant Project Manager

SV/

- ☐ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: \_\_\_\_\_
- ☐ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



3600 W Sam Houston Pkwy S, Suite 600, Houston, Texas 77042  
t 713.953.5200 LJA.com TBPE F-1386 TBPLS 10110501

April 5, 2023

VIA CERTIFIED MAIL

Prologis LP  
9655 Katy Freeway, Ste. 400  
Houston, TX 77024

Re: Wastewater Service Request for Harris County Municipal Utility District No. 531 WWTP  
No. 2  
LJA Job No. 2568-2005 (2.0)

To Whom It May Concern:

We are currently preparing a new permit application for the discharge permit for the Harris County Municipal Utility District No. 531 WWTP No. 2, in Harris County. The proposed development will require 0.10 MGD of wastewater service capacity. TCEQ regulations require us to contact all entities with a permitted wastewater treatment plant within three (3) miles of our plant, and to identify any available capacity at those facilities. Your referred wastewater treatment plant is within a three (3) mile radius from our facility. Please let us know if you have the extra capacity in your facility to accommodate the required flow or are willing to expand your facility to accommodate this flow.

Please respond in writing or indicating below on this letter if the Legacy Ranch Business Park Wastewater Treatment Facility with TPDES Permit No. WQ0016215001 has available capacity. After you have made the required indication, please email (svelez@lja.com) or mail the response back. We would appreciate a response within ten (10) days. Thank you in advance for your prompt attention regarding this matter.

Sincerely,

Sarah Velez, PE.  
Assistant Project Manager

SV/

- ☐ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: \_\_\_\_\_
- ☐ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_





3600 W Sam Houston Pkwy S, Suite 600, Houston, Texas 77042  
t 713.953.5200 LJA.com TBPE F-1386 TBPLS 10110501

April 5, 2023

VIA CERTIFIED MAIL

93 Schiel Road, Ltd.  
5151 San Felipe  
Houston, TX 77056

Re: Wastewater Service Request for Harris County Municipal Utility District No. 531 WWTP  
No. 2  
LJA Job No. 2568-2005 (2.0)

To Whom It May Concern:

We are currently preparing a new permit application for the discharge permit for the Harris County Municipal Utility District No. 531 WWTP No. 2, in Harris County. The proposed development will require 0.10 MGD of wastewater service capacity. TCEQ regulations require us to contact all entities with a permitted wastewater treatment plant within three (3) miles of our plant, and to identify any available capacity at those facilities. Your referred wastewater treatment plant is within a three (3) mile radius from our facility. Please let us know if you have the extra capacity in your facility to accommodate the required flow or are willing to expand your facility to accommodate this flow.

Please respond in writing or indicating below on this letter if the 270 Ac. Industrial Park Wastewater Treatment Plant with TPDES Permit No. WQ0015779001 has available capacity. After you have made the required indication, please email (svelez@lja.com) or mail the response back. We would appreciate a response within ten (10) days. Thank you in advance for your prompt attention regarding this matter.

Sincerely,

Sarah Velez, PE.  
Assistant Project Manager

SV/

- ☐ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: \_\_\_\_\_
- ☐ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



April 5, 2023

VIA CERTIFIED MAIL

Harris County MUD 535  
3200 Southwest Freeway, Ste. 2600  
Houston, Texas 77027

Re: Wastewater Service Request for Harris County Municipal Utility District No. 531 WWTP  
No. 2  
LJA Job No. 2568-2005 (2.0)

To Whom It May Concern:

We are currently preparing a new permit application for the discharge permit for the Harris County Municipal Utility District No. 531 WWTP No. 2, in Harris County. The proposed development will require 0.10 MGD of wastewater service capacity. TCEQ regulations require us to contact all entities with a permitted wastewater treatment plant within three (3) miles of our plant, and to identify any available capacity at those facilities. Your referred wastewater treatment plant is within a three (3) mile radius from our facility. Please let us know if you have the extra capacity in your facility to accommodate the required flow or are willing to expand your facility to accommodate this flow.

Please respond in writing or indicating below on this letter if the Harris County MUD 535 Wastewater Treatment Plant with TPDES Permit No. WQ0016190001 has available capacity. After you have made the required indication, please email (svelez@lja.com) or mail the response back. We would appreciate a response within ten (10) days. Thank you in advance for your prompt attention regarding this matter.

Sincerely,

Sarah Velez, PE.  
Assistant Project Manager

SV/

- ☐ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: \_\_\_\_\_
- ☐ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



7020 3160 0000 1408 9836

**U.S. Postal Service™**  
**CERTIFIED MAIL RECEIPT**  
 Domestic

For delivery to:  
 Sarah Velez  
 04-05-23  
 Job#:2568-2005(2.0)

Certify:  
 \$  
 Extra Services & Fees (check box, add fee as appropriate)  
☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
 Postage \$  
 Total \$  
 Sent To  
 Street  
 City, State

Cypriss Hill MUD 1  
 1301 McKinney Street Ste.5100  
 Houston, Texas 77010

Postmark Here

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 3160 0000 1408 9850

**U.S. Postal Service™**  
**CERTIFIED MAIL RECEIPT**  
 Domestic

For delivery to:  
 Sarah Velez  
 04-05-23  
 Job#:2568-2005(2.0)

Certify:  
 \$  
 Extra Services & Fees (check box, add fee as appropriate)  
☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
 Postage \$  
 Total \$  
 Sent To  
 Street  
 City, State

Bethesda Lutheran Communities, Inc  
 18937 Kz Road  
 Cypress, TX 77433

Postmark Here

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 3160 0000 1408 9881

**U.S. Postal Service™**  
**CERTIFIED MAIL RECEIPT**  
 Domestic

For delivery to:  
 Sarah Velez  
 04-05-23  
 Job#:2568-2005(2.0)

Certify:  
 \$  
 Extra Services & Fees (check box, add fee as appropriate)  
☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
 Postage \$  
 Total \$  
 Sent To  
 Street  
 City, State

Dunham Pointe Development LLC  
 1305 Afton Street  
 Houston, TX 77055

Postmark Here

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 3160 0000 1408 9898

**U.S. Postal Service™**  
**CERTIFIED MAIL RECEIPT**  
 Domestic

For delivery to:  
 Sarah Velez  
 04-05-23  
 Job#:2568-2005(2.0)

Certify:  
 \$  
 Extra Services & Fees (check box, add fee as appropriate)  
☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
 Postage \$  
 Total \$  
 Sent To  
 Street  
 City, State

Cypress Grand Parkway (Houston) ASLI IX, LLC923  
 N Pennsylvania Ave  
 Winter Park, FL 32789

Postmark Here

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 3160 0000 1408 9904

**U.S. Postal Service™**  
**CERTIFIED MAIL RECEIPT**  
 Domestic

For delivery to:  
 Sarah Velez  
 04-05-23  
 Job#:2568-2005(2.0)

Certify:  
 \$  
 Extra Services & Fees (check box, add fee as appropriate)  
☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
 Postage \$  
 Total \$  
 Sent To  
 Street  
 City, State

Prologis LP  
 9655 Katy Freeway, Ste. 400  
 Houston, TX 77024

Postmark Here

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 3160 0000 1408 9911

**U.S. Postal Service™**  
**CERTIFIED MAIL RECEIPT**  
 Domestic

For delivery to:  
 Sarah Velez  
 04-05-23  
 Job#:2568-2005(2.0)

Certify:  
 \$  
 Extra Services & Fees (check box, add fee as appropriate)  
☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
 Postage \$  
 Total \$  
 Sent To  
 Street  
 City, State

93 Schiel Road, Ltd.  
 5151 San Felipe  
 Houston, TX 77056

Postmark Here

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

# Project Name: Harris County MUD No. 531

Wastewater Treatment Plant No. 2

Process Design Calculations

Project #: 2568-2004

## WWTP Influent Flow

		Phase 1	Phase 2
Average Daily Flow	gpd	50,000	100,000
Peaking Factor		4	4
Peak Flow	gpd	200,000	400,000
Equivalent Single Family Connections	ESFC	166	333
Water Usage per Connection	gal/ESFC	300	300

## WWTP Organic Parameters

BOD <sub>5</sub>	300 mg/L		
NH <sub>3</sub>	64 mg/L		
BOD Loading	lbs/d	125	250

## Aeration Basin Design

Process Description	Temperatures Exceed 15C		
Organic Loading Rate	35	lbs BOD5/day/1,000ft <sup>3</sup>	
Minimum Free Board	1.5	ft	
Minimum Aeration Volume	ft <sup>3</sup>	3,574	7,149
Number of Tanks		1	2
Length	ft	30	30
Width	ft	12	12
Height of Basin	ft	13.2	13.2
Calculated Side Water Depth at Peak Flow		11.70	11.70
Proposed Free Board at Peak Flow	ft	1.50	1.50
Proposed Volume	ft <sup>3</sup>	4,212	8,424

## Secondary Clarifier Design

Process Description	Activated Sludge - Secondary, Enhanced Secondary, or Secondary With		
Maximum Surface Loading @ 2-hr Peak Flow	1,200	gpd/ft <sup>2</sup>	
Minimum Detention Time	1.8	hrs	
Minimum SWD	10	ft	
Minimum Free Board	1	ft	
Maximum Weir Loading		20,000	20,000
Maximum Vertical Velocity in Stilling Well	0.15	ft/s	
Minimum Surface Area Required	ft <sup>2</sup>	167	333
Number of Clarifiers		1	1
Diameter	ft	22	22
Proposed Weir Loading	gpd/lf	3,183	6,366
Height of Clarifier	ft	14.00	14.00
Calculated Side Water Depth	ft	10.85	10.9
Proposed Free Board at Peak Flow	ft	2.24	2.22
Proposed Surface Area	ft <sup>2</sup>	380	380

Proposed Volume	ft <sup>3</sup>	4,123	4,131
Proposed Detention Time	hrs	3.70	1.85
Stilling Well Diameter	ft	8.0	8.0
Proposed Stilling Well Velocity	ft/s	0.01	0.01

## Chlorine Contact Basin

Minimum Contact Time	20 min
Minimum Free Board	1 ft

Number of Basins		1	1
Width of Tank	ft	8	8
Height of Tank	ft	13	13
Proposed Length of Tank	ft	10	10
Proposed Side Water Depth at Peak Flow	ft	12.00	12.00
Free Board at Peak Flow	ft	1.00	1.00
Proposed Volume	ft <sup>3</sup>	960	960
Proposed Detention Time	min	51.70	25.85

## Aerobic Digester Design

Volatile Solids Wasted (From Solids Balance)	lbs/d	92	183
TCEQ Loading Rate	200 lbs/d/1,000ft <sup>3</sup>		

$$V = \frac{P_{x,tss}}{\text{Loading Rate}}$$

Minimum Required Volume	ft <sup>3</sup>	458	915
Number of Digesters		2	2
Width	ft	12	12
Depth	ft	12.0	12.0
Length	ft	15	15
Proposed Volume	ft <sup>3</sup>	4,320	4,320

## Chlorine Dosage Requirements

Type of Effluent	Activated Sludge		
Chlorine Concentration	8 mg/L		
Storage of Chlorine Tanks	Temperature-Controlled Enclosure		
Low Ambient Temperature	65 °F		
Required Chlorine Dosage	lbs/d	13	27
Withdrawal Rate per 150-lb Chlorine Cylinder	65 lbs/d		
Withdrawal Rate per 1-ton Chlorine Cylinder	520 lbs/d		
Number of 150-lb Chlorine Cylinders per Bank		1	1
Number of 1-ton Chlorine Cylinders per Bank		0	0
Proposed Maximum Chlorine Withdrawal Rate		65	65

## Air Requirements

### Aeration Basins

Type of Diffuser	Coarse Bubble Diffuser
------------------	------------------------

Transfer Efficiency Factor	0.65		
Depth of Diffuser		10.24	10.27
Submergence Correction Factor		1.49	1.48
Clean Water Transfer Efficiency	8.40%		
Wastewater Transfer Efficiency	5.46%		
Aeration Oxygen Requirement	2.12 lb O <sub>2</sub> /lb BOD <sub>5</sub>		
Aeration Airflowrate	scfm	292	580
Mixing Oxygen Requirement	20 scfm/1,000 ft <sup>3</sup>		
Mixing Airflowrate	scfm	84	168
Required Airflowrate	scfm	292	580

### Aerobic Digester

Type of Diffuser	Coarse Bubble Diffuser		
Required Mixing Air Rate	20 scfm/1,000 ft <sup>3</sup>		
Required Airflowrate	scfm	86.4	86.4

### Chlorine Contact Basin

Effluent DO Concentration	4 mg/L		
Initial DO Concentration*	0 mg/L		
Diffuser Capacity	150%		
Required Oxygen at Peak Flow	lb O <sub>2</sub> /d	6.68	13.35
Required Airflowrate	scfm	4.92	9.84
Airflowrate Required by Diffusers		7.38	14.77
Minimum Airdrops (10 scfm)		1	2

\* Minimum DO Concentration in the Aeration Basin is 2 mg/L however, to be conservative an estimated DO of 0 mg/L has been assumed entering the CCB

### Airlifts

Amount Required	110 scfm		
-----------------	----------	--	--

### Total Air Requirement

Total Plant Required Air	scfm	493	786
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### Blower Sizing

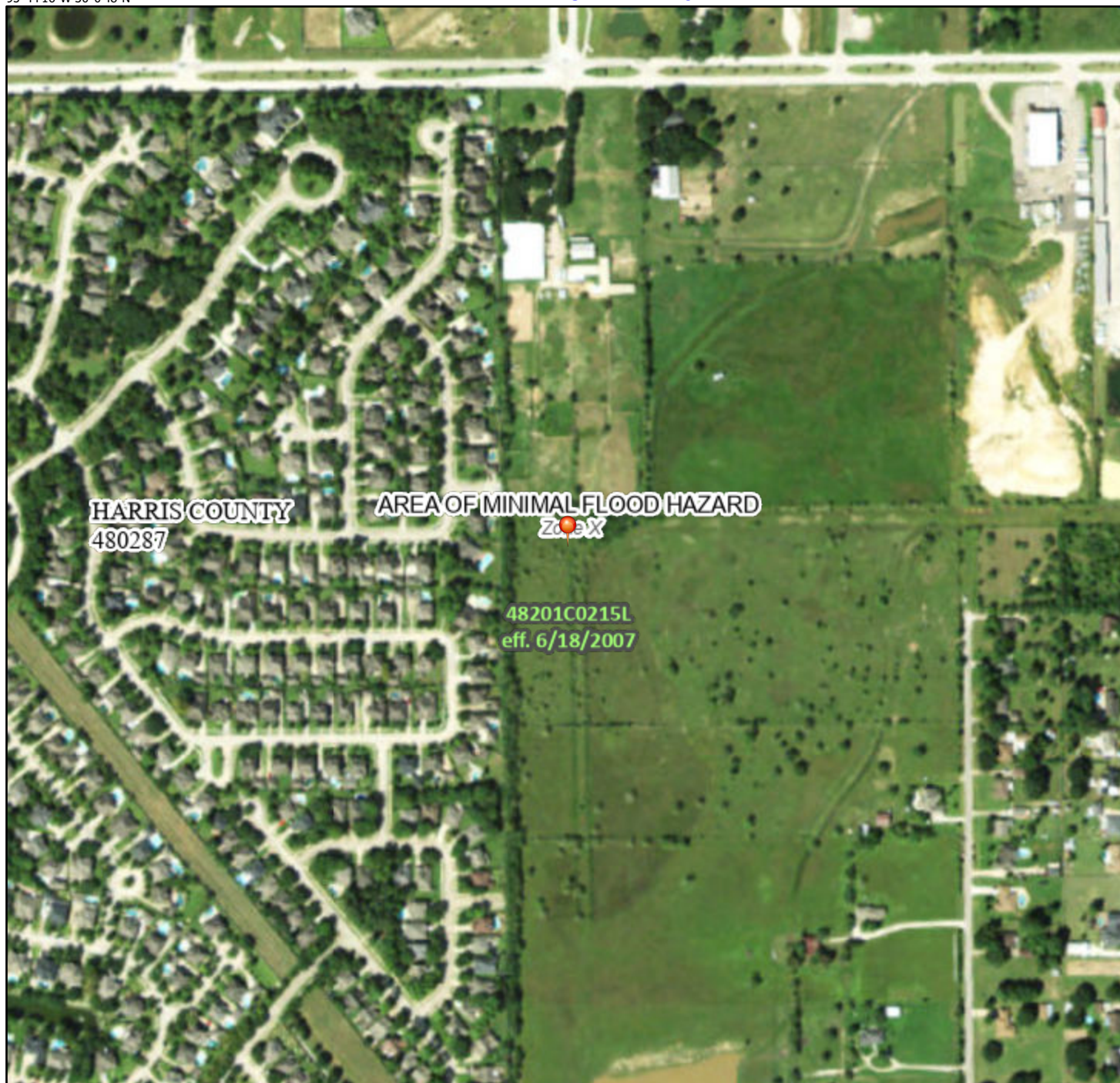
Blower Capacity	400 scfm		
Blower Required		2	2
Proposed Blowers		3	3



# National Flood Hazard Layer FIRMMette

95°44'16"W 30°0'48"N

ATTACHMENT 15



0 250 500 1,000 1,500 2,000 Feet

1:6,000

95°43'39"W 30°0'17"N

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/29/2022 at 11:16 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

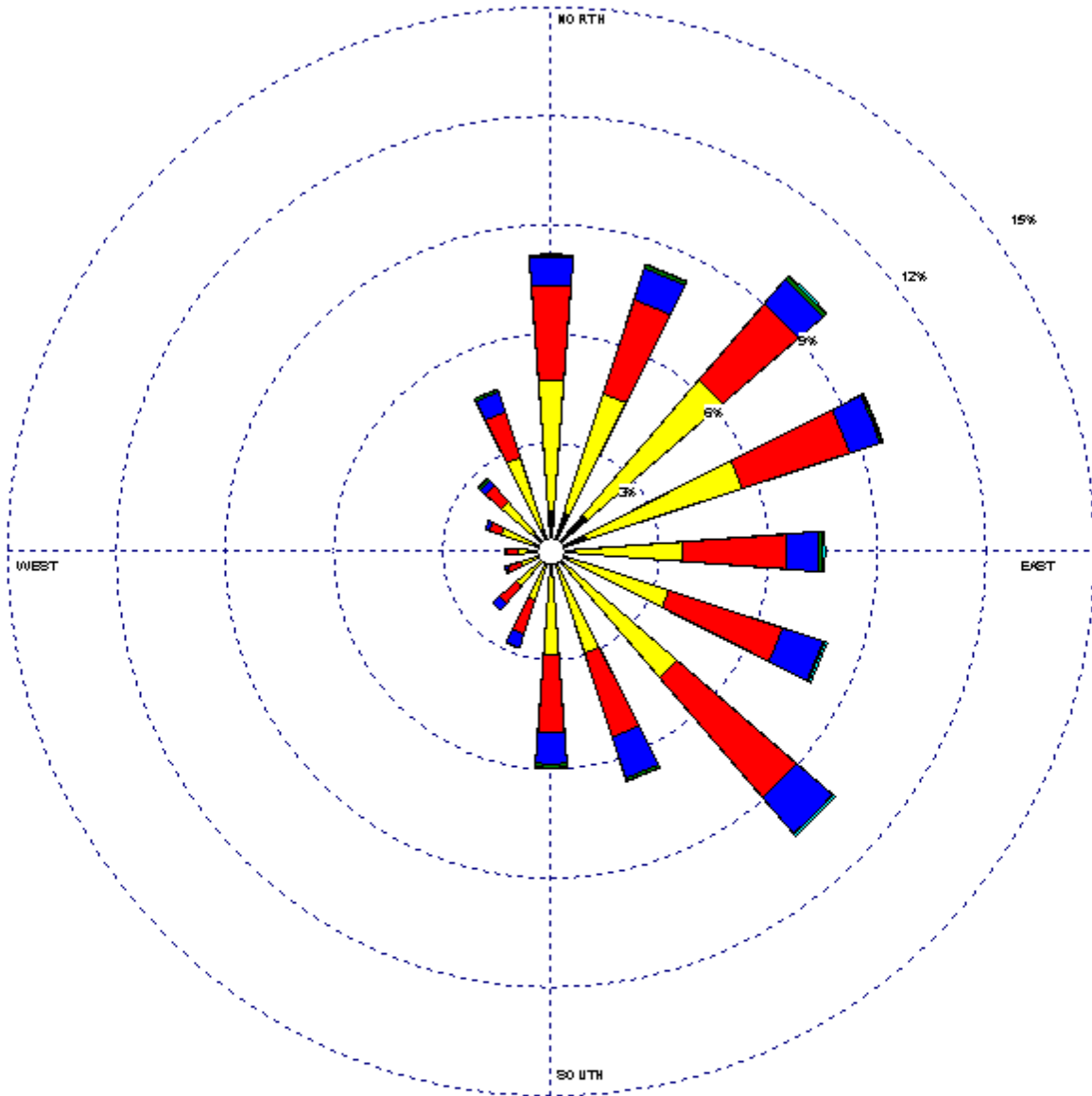
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

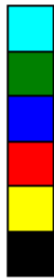
HCM\_000111

# ATTACHMENT 16

## WIND ROSE PLOT

Station #12960 - HOUSTON/INTERCONTINENTAL ARPT, TX



<b>Wind Speed (m/s)</b>  	<b>MODELER</b> Sara West	<b>DATE</b> 8/29/2002	<b>COMPANY NAME</b> USDA-ARS
	<b>DISPLAY</b> Wind Speed	<b>UNIT</b> m/s	<b>COMMENTS</b>
	<b>AVG. WIND SPEED</b> 3.58 m/s	<b>CALM WINDS</b> 8.26%	
	<b>ORIENTATION</b> Direction (blowing from)	<b>PLOT YEAR-DATETIME</b> 1961 Sep 1 - Sep 30 Midnight - 11 PM	

WSPR 07 v1.0a 3.3 by Calase Environmental Software - www.calase-environmental.com

HCM\_000112

## ATTACHMENT - 17

### Sludge Management Plan

#### Phase 1 - 0.05 MGD

Influent Design Flow	0.05 MGD
Influent BOD <sub>5</sub> Concentration	300 mg/L
Aerobic Digester Volume	32,314 gal
Aeration Basin MLSS	2000 mg/L

<b>SOLIDS GENERATED</b>	<b>100% Flow</b>	<b>75% Flow</b>	<b>50% Flow</b>	<b>25% Flow</b>
Pounds (lbs) Influent BOD <sub>5</sub>	125	94	63	31
Pounds (lbs) of digested dry sludge produced*	44	33	22	11
Pounds (lbs) of wet sludge produced	2189	1642	1095	547
Gallons (Gal) of wet sludge produced	263	197	131	66

\*Assuming 0.35 pounds of digested dry sludge produced per pound of influent BOD<sub>5</sub> at average temperature and 2.0% solids concentration in the digester

Sludge will be wasted from the RAS flow stream to the aerobic digester.

Sludge solids will be stabilized in the digester

Supernatant will be decanted from the digester and returned to the plant headworks for treatment.

<b>REMOVAL SCHEDULE (DAYS)</b>	<b>100% Flow</b>	<b>75% Flow</b>	<b>50% Flow</b>	<b>25% Flow</b>
Days between sludge removal	15	20	30	59

Liquid digested sludge will be removed from the digester for disposal on a regular basis as required.

The calculated mean cell residence time (MCRT) for the digester storage volume of 32313.6 gal will be approximately 123 days at 100% capacity and annual average digested sludge produced of 44 ppd.

**ATTACHMENT - 17**  
**Sludge Management Plan**  
**Phase 2 (Ultimate) - 0.10 MGD**

Influent Design Flow	0.1 MGD
Influent BOD <sub>5</sub> Concentration	300 mg/L
Aerobic Digester Volume	32,314 gal
Aeration Basin MLSS	2000 mg/L

<b>SOLIDS GENERATED</b>	<b>100% Flow</b>	<b>75% Flow</b>	<b>50% Flow</b>	<b>25% Flow</b>
Pounds (lbs) Influent BOD <sub>5</sub>	250	188	125	63
Pounds (lbs) of digested dry sludge produced*	88	66	44	22
Pounds (lbs) of wet sludge produced	4379	3284	2189	1095
Gallons (Gal) of wet sludge produced	525	394	263	131

\*Assuming 0.35 pounds of digested dry sludge produced per pound of influent BOD<sub>5</sub> at average temperature and 2.0% solids concentration in the digester

Sludge will be wasted from the RAS flow stream to the aerobic digester.

Sludge solids will be stabilized in the digester

Supernatant will be decanted from the digester and returned to the plant headworks for treatment.

<b>REMOVAL SCHEDULE (DAYS)</b>	<b>100% Flow</b>	<b>75% Flow</b>	<b>50% Flow</b>	<b>25% Flow</b>
Days between sludge removal	7	10	15	30

Liquid digested sludge will be removed from the digester for disposal on a regular basis as required.

The calculated mean cell residence time (MCRT) for the digester storage volume of 32313.6 gal will be approximately 61 days at 100% capacity and annual average digested sludge produced of 88 ppd.



## Sarah Velez

---

**From:** Sarah Velez  
**Sent:** Thursday, May 11, 2023 3:07 PM  
**To:** Michelle Labrie  
**Cc:** Ashley Broughton  
**Subject:** RE: 16334-001 - Discharge route info  
**Attachments:** HCMUD531 WWTP NO.2 Revised Exhibits.pdf

Good afternoon Michelle,

Please see attached revised exhibits. The discharge point is now north of the site due to added detention. The discharge goes from the chlorine contact basin to the storm sewer into Detention pond No.1 then through storm sewer into Detention pond No. 2 then to the Schiel Road storm sewer. Please see Attachments 7 and 11 for more information.

Please let me know if there is anything else you may need.

Thank you,

**Sarah Velez, PE**  
Assistant Project Manager

**LJA Engineering** | We seek solutions.

● 3600 W Sam Houston Parkway S, Suite 600, Houston, TX 77042  
D: 713.341.8093  
[www.lja.com](http://www.lja.com)  
[Facebook](#) • [Twitter](#) • [LinkedIn](#)

---

**From:** Michelle Labrie <Michelle.Labrie@tceq.texas.gov>  
**Sent:** Thursday, May 4, 2023 4:18 PM  
**To:** Sarah Velez <svelez@lja.com>  
**Subject:** RE: 16334-001 - Discharge route info

[EXTERNAL EMAIL]

Thanks Sarah, yes that sounds good!

---

**From:** Sarah Velez <[svelez@lja.com](mailto:svelez@lja.com)>  
**Sent:** Thursday, May 4, 2023 4:07 PM  
**To:** Michelle Labrie <[Michelle.Labrie@tceq.texas.gov](mailto:Michelle.Labrie@tceq.texas.gov)>; Ashley Broughton <[abroughton@lja.com](mailto:abroughton@lja.com)>  
**Subject:** RE: 16334-001 - Discharge route info

Michelle,

I will work on these exhibits and should have something to you by next week, is that okay?

Thank you,

**Sarah Velez, PE**  
Assistant Project Manager

**LJA Engineering** | We seek solutions.

• 3600 W Sam Houston Parkway S, Suite 600, Houston, TX 77042

D: 713.341.8093

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---

**From:** Michelle Labrie <[Michelle.Labrie@tceq.texas.gov](mailto:Michelle.Labrie@tceq.texas.gov)>

**Sent:** Thursday, May 4, 2023 3:30 PM

**To:** Ashley Broughton <[abroughton@lja.com](mailto:abroughton@lja.com)>; Sarah Velez <[svelez@lja.com](mailto:svelez@lja.com)>

**Subject:** 16334-001 - Discharge route info

[EXTERNAL EMAIL]

Good afternoon,

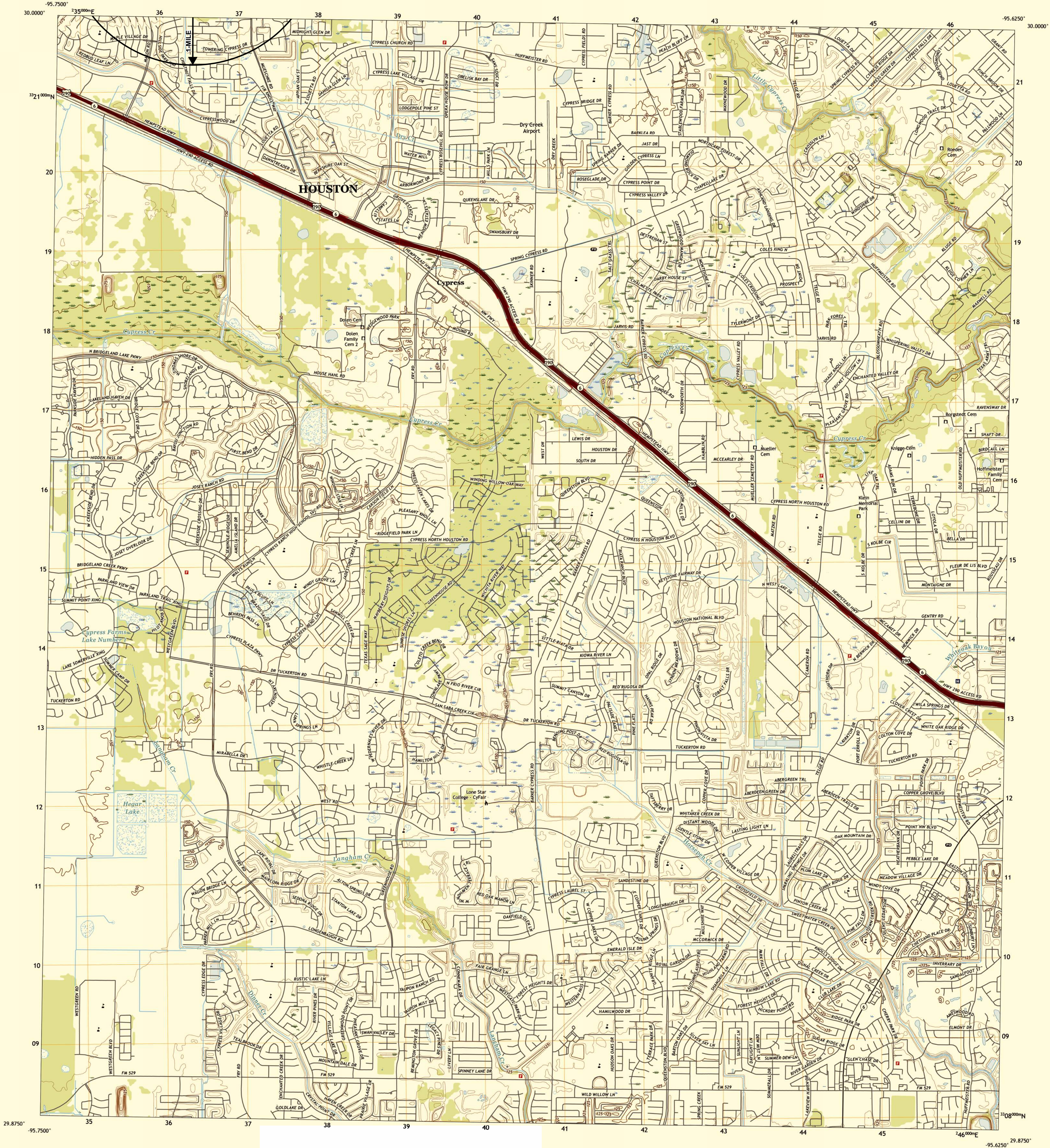
I'm reviewing the discharge route for 16334-001 and will need some additional info to complete my review. Could you submit a map with the depiction of the proposed detention ponds? Additionally, could you mark where the discharge will be entering the storm sewer and where it will be exiting? Please let me know if you have any questions.

Thanks,  
Michelle

[EXTERNAL EMAIL] Exercise caution. Do not open attachments or click links from unknown senders or unexpected email

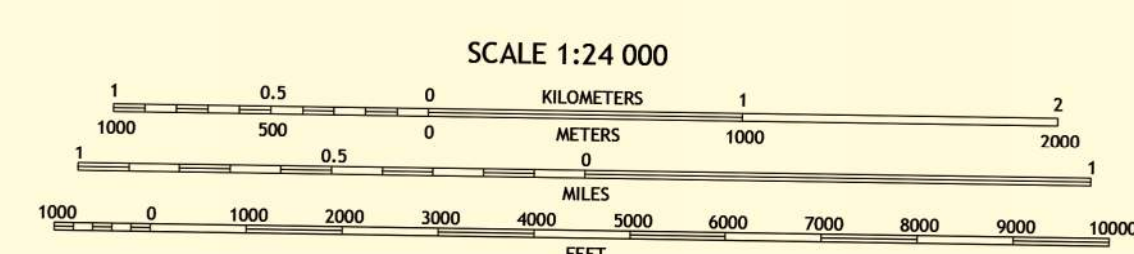
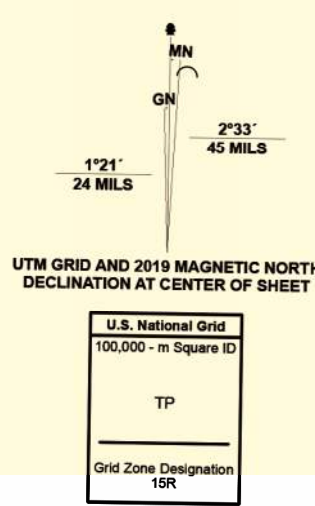
[EXTERNAL EMAIL] Exercise caution. Do not open attachments or click links from unknown senders or unexpected email





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North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84). Projection and  
1 000-meter grid/Universal Transverse Mercator, Zone 15R  
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, September 2016 - November 2016  
Roads.....U.S. Census Bureau, 2015 - 2019  
Names.....GNIS, 1979 - 2022  
Hydrography.....National Hydrography Dataset, 2002 - 2018  
Contours.....National Elevation Dataset, 2010  
Boundaries.....Multiple sources; see metadata file 2019 - 2021  
Wetlands.....FWS National Wetlands Inventory Not Available



1	2	3
4	5	6
7	8	9

ADJOINING QUADRANGLES

1 Hookley  
2 Rose Hill  
3 Tomball  
4 Warren Lake  
5 Sattsuma  
6 Katy  
7 Addicks  
8 Hedwig Village

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

CYPRESS, TX



CONTOUR INTERVAL 5 FEET  
NORTH AMERICAN DATUM OF 1983  
This map was produced to conform with the  
National Geospatial Program US Topo Product Standard.

ATTACHMENT 3

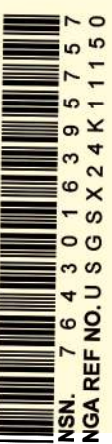
HARRIS COUNTY M.U.D. NO. 531 #2  
WWTP DISCHARGE PERMIT (1-MILE AND 3-MILE)  
USGS TOPOGRAPHIC MAP



3600 W Sam Houston Parkway S, Suite 600  
Houston, Texas 77042  
Phone 713.953.5200 TBP F-1386  
LJA.com

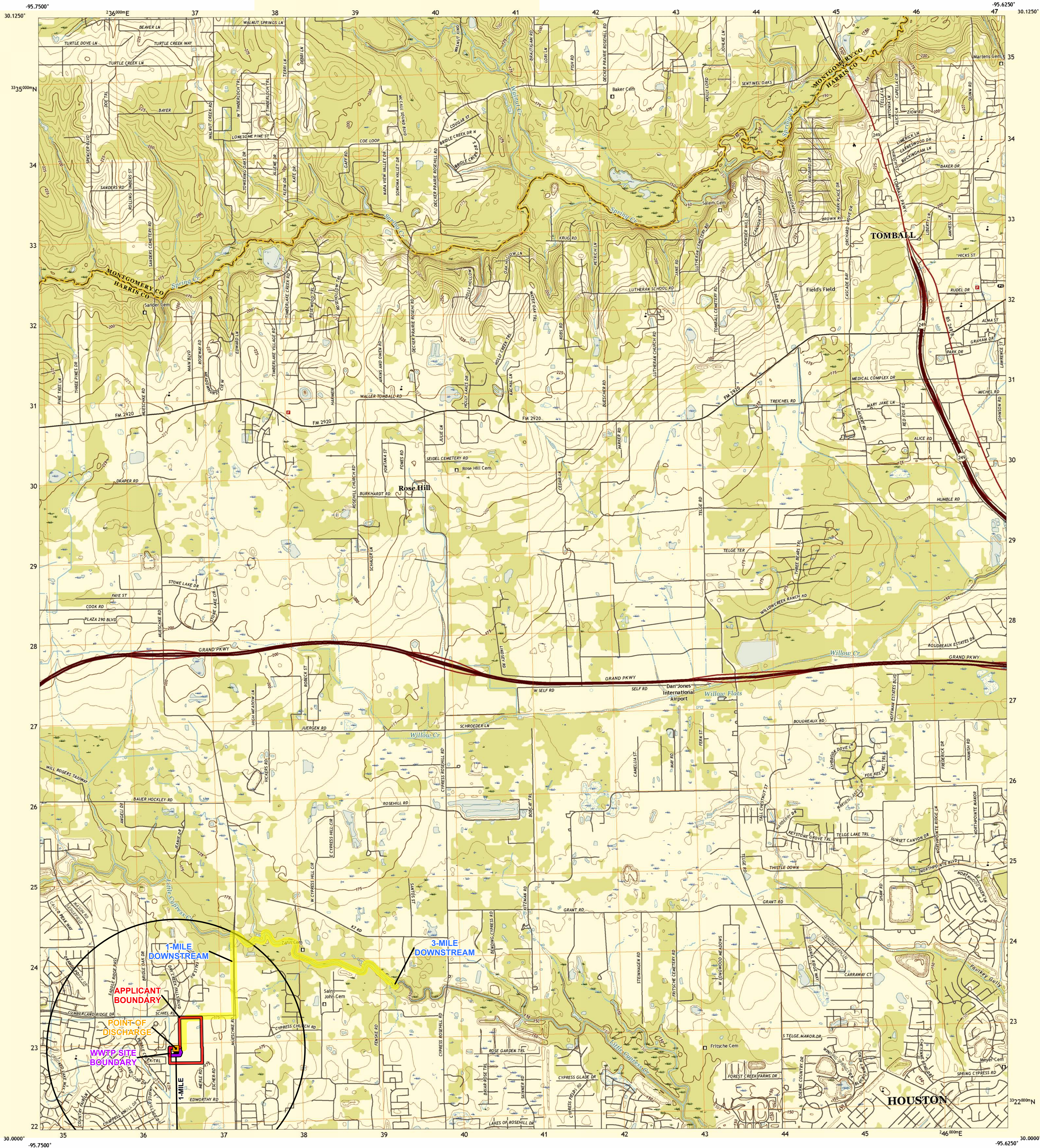
MAY 2023

JOB NO: 2568-2004



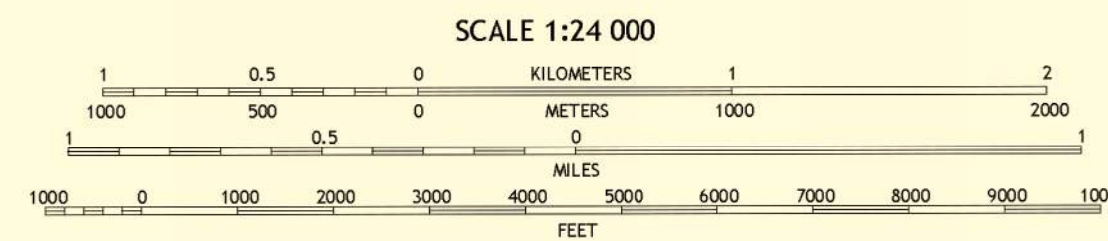
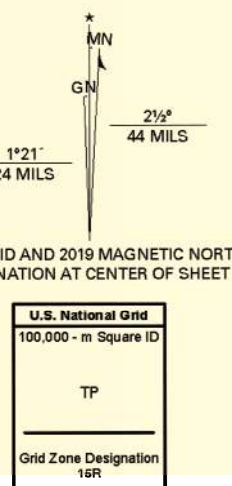
NSN 7 540 301 800 8 978 1  
NGA REF NO. USGS X 24 R 1150





**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 15R  
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generalized for this map scale. Private lands within government  
reservations may not be shown. Obtain permission before  
entering private lands.

Imagery.....NAIP, September 2016 - November 2016  
Roads.....U.S. Census Bureau, 2015  
Names.....GNS, 1979 - 2018  
Hydrography.....National Hydrography Dataset, 2003 - 2018  
Contours.....National Elevation Dataset, 2010  
Boundaries.....Multiple sources; see metadata file 2016 - 2017  
Wetlands.....FWS National Wetlands Inventory 1993

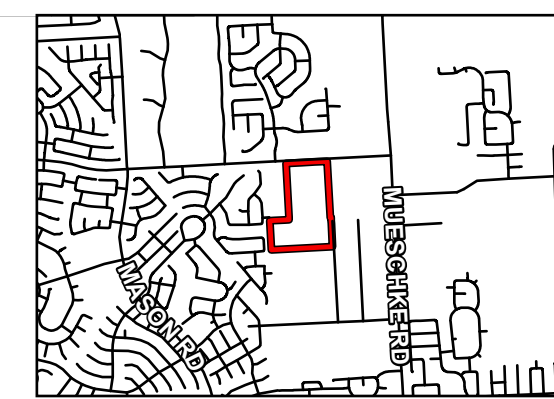


1	2	3
4	5	6
7	8	9

ADJOINING QUADRANGLES

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

ROSE HILL, TX  
2019



NSN 7540-01-000-0000  
USGS X24K3 8585  
NSN 7540-01-000-0000  
USGS X24K3 8585

ATTACHMENT 3

**HARRIS COUNTY M.U.D. NO. 531 #2  
WWTP DISCHARGE PERMIT (1-MILE AND 3-MILE)  
USGS TOPOGRAPHIC MAP**

**LJA ENGINEERING**

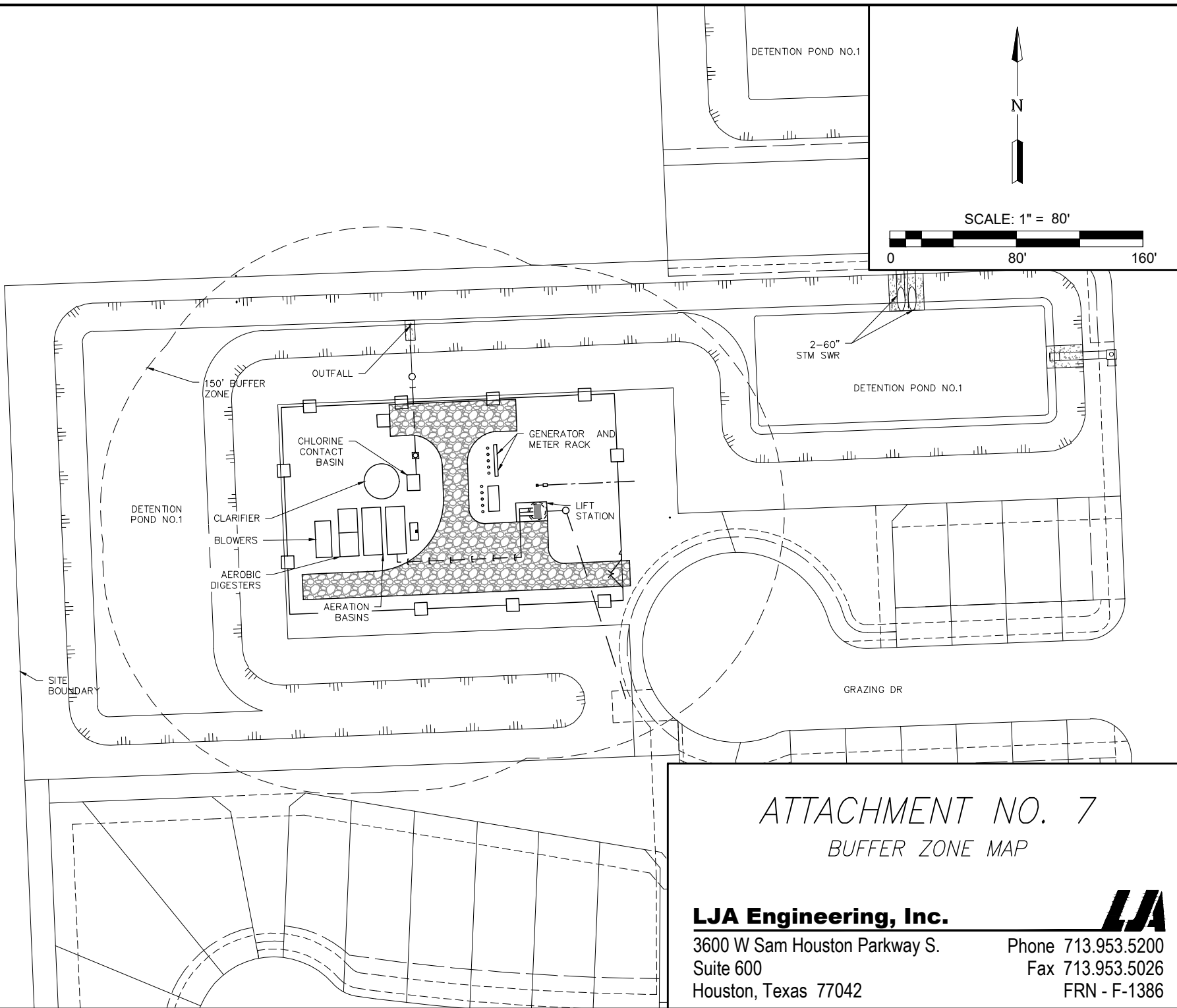
3600 W Sam Houston Parkway S, Suite 600  
Houston, Texas 77042  
Phone 713.953.5200 TBE F-1386  
LJA.com

MAY 2023

JOB NO: 2568-2004



Date : Thu, 11 May 2023 - 2:17pm User Name : svelez  
Path : W:\LAND\2568\2005 - HCMUD 531 WWTP 2 Permit\Application\CAD\Site Plan Permit.dwg



## ATTACHMENT NO. 7

### BUFFER ZONE MAP

**LJA Engineering, Inc.**

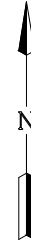
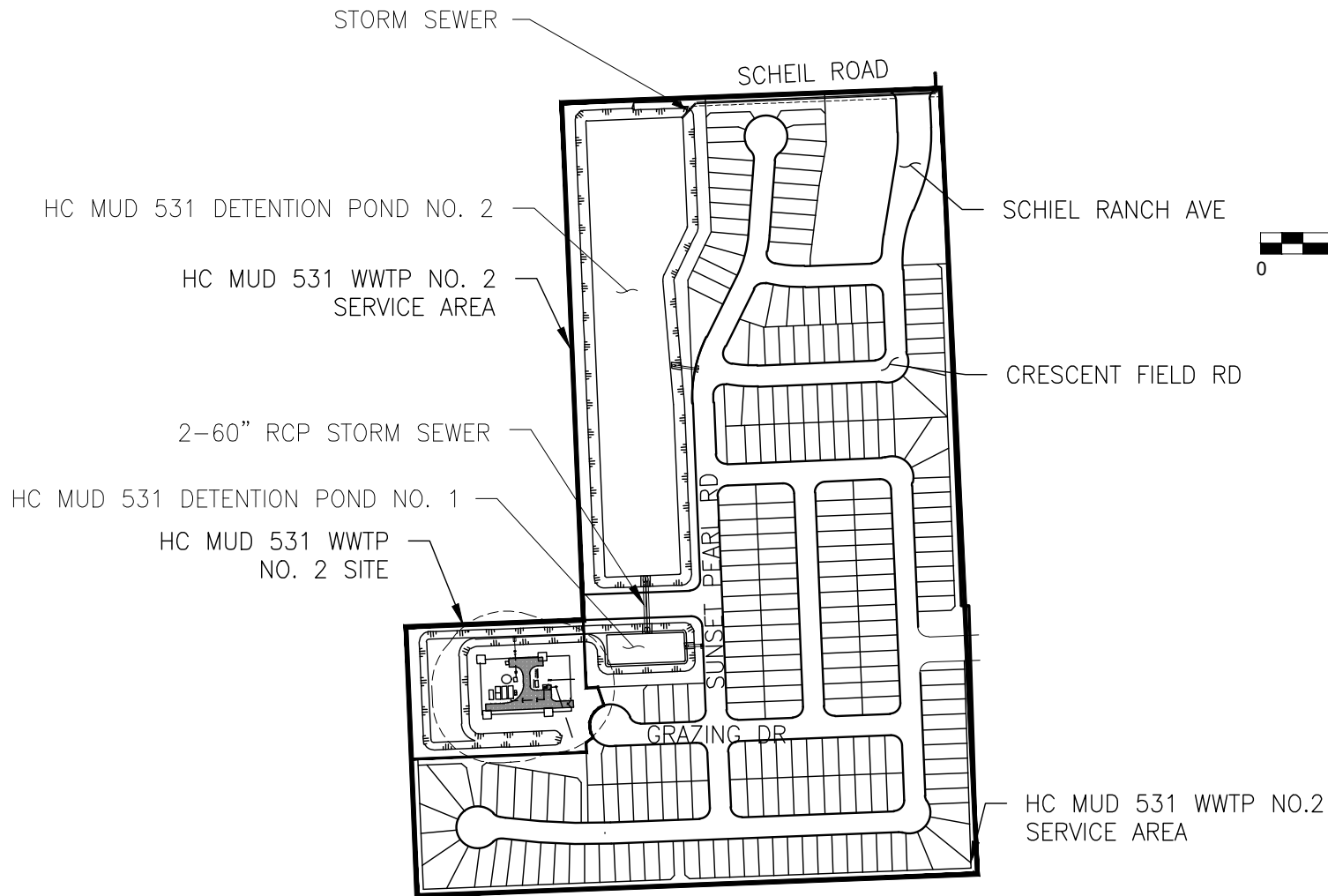
3600 W Sam Houston Parkway S.  
Suite 600  
Houston, Texas 77042

Phone 713.953.5200  
Fax 713.953.5026  
FRN - F-1386



HCM\_000119

Date\\Time : Thu, 11 May 2023 - 2:22pm User Name : svelez  
Path\\Name : W:\\LAND\\2568\\2005 - HCMUD 531 WWTP 2 Permit\\Application\\CAD\\Overall area map.dwg



SCALE: 1" = 400'

0 400' 800'

*ATTACHMENT NO. 11*  
*SITE DRAWING*

**LJA Engineering, Inc.**

3600 W Sam Houston Parkway S  
Suite 600  
Houston, Texas 77042

Phone 713.953.5200  
Fax 713.953.5026  
FRN - F-1386



HCM\_000120

Jon Niermann, *Chairman*  
Emily Lindley, *Commissioner*  
Bobby Janecka, *Commissioner*  
Erin E. Chancellor, *Interim Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

May 8, 2023

Mrs. Ashley Broughton, P.E.  
LJA Engineering, Inc.  
3600 West Sam Houston Parkway South,  
Suite 600  
Houston, Texas 77042

### VIA EMAIL

**Re:** Application to Obtain Permit No. WQ0016334001 (EPA I.D. TX0144444)  
To Be Issued to Harris County Municipal Utility District No. 531, Harris County MUD 531  
WWTP No. 2  
CN604577270, RN111731089

Dear Mrs. Broughton:

We have received the application for the above referenced permit, and it is currently under review. Your attention to the following items is requested before we can declare the application administratively complete. Please submit one original and two copies of the complete response.

1. Please provide a location description using a single distance in feet or miles from a nearby intersection. An example of a description in this format is: "located approximately 0.55 miles southwest of the intersection of Mueschke Road and Schiel Road."

Please revise each of these pages in the application to be consistent:

- a. Core Data Form, Section III, Item 25
  - b. Administrative Report 1.0, Section 10, Item A
  - c. Administrative Report 1.0, Section 15, Plain Language Summaries
  - d. Supplemental Permit Information Form (SPIF), Item 1
2. Administrative Report 1.0, Section 15  
Please revise the English and Spanish plain language summaries (PLS) to use the same flow proposed in the application, the final phase flow is 0.1 MGD in the application.
  3. Administrative Report 1.1  
Please provide a revised landowner map, cross-reference list, and mailing labels that identify the landowners for the full mile downstream of the discharge point. The mile should also include any portion of the discharge route that is underground.
  4. The following is a portion of the Notice of Receipt of Application and Intent to Obtain a Water Quality Permit (NORI) which contains information relevant to your application. Please read it carefully and indicate if it contains any errors or omissions. The complete notice will be sent to you once the application is declared administratively complete.

Mrs. Ashley Broughton, P.E.  
Page 2  
May 8, 2023  
Permit No. WQ0016334001

APPLICATION. Harris County Municipal Utility District No. 531, 3200 Southwest Freeway, Suite 2600, Houston, Texas 77027, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0016334001 (EPA I.D. No. TX0144444) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 100,000 gallons per day. The domestic wastewater treatment facility will be located (location description pending response), in Harris County, Texas 77433. The discharge route will be from the plant site through a pipe to a detention pond, thence through a series of pipes to a detention pond, thence to Schiel Road storm sewer, thence to Little Cypress Creek, thence to Cypress Creek. TCEQ received this application on April 28, 2023. The permit application will be available for viewing and copying at Northwest Branch Library, 11355 Regency Green Drive, Cypress, Texas prior to the date this notice is published in the newspaper. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.733,30.0089&level=18>

Further information may also be obtained from Harris County Municipal Utility District No. 531 at the address stated above or by calling Mrs. Ashley Broughton, P.E., LJA Engineering, Inc., at 713-380-4431.

5. Administrative Report 1.0, Section 8, Item E, No. 5  
The response indicates that public notices in Spanish are required. After confirming the portion of the NORI above does not contain any errors or omissions, please use the attached template to translate the NORI into Spanish. Only the first and last paragraphs are unique to this application and require translation. Please provide the translated Spanish NORI in a Microsoft Word document.

Please submit the complete response, addressed to my attention by May 22, 2023. If you should have any questions, please do not hesitate to call me at (512) 239-0084.

Sincerely,



Leah Whallon  
Application Review and Processing Team (MC 148)  
Water Quality Division  
Texas Commission on Environmental Quality

Enclosure:  
Municipal Discharge New Spanish NORI



May 22, 2023

**Certified Mail**

Leah Whallon  
Application Review and Processing Team (MC 148)  
Water Quality Division  
Texas Commission on Environmental Quality

Re: Application to Obtain Permit No. WQ0016334001 (EPA I.D. TX0144444)  
To Be Issued to Harris County Municipal Utility District No. 531, Harris County MUD 531  
WWTP No. 2  
CN604577270, RN111731089

Dear Leah Whallon,

Below are your comments and our responses to your letter dated May 8, 2023 regarding your review of the application for the above referenced permit.

1. Please provide a location description using a single distance in feet or miles from a nearby intersection. An example of a description in this format is: "located approximately 0.55 miles southwest of the intersection of Mueschke Road and Schiel Road."

Please revise each of these pages in the application to be consistent:

- a. Core Data Form, Section III, Item 25
- b. Administrative Report 1.0, Section 10, Item A
- c. Administrative Report 1.0, Section 15, Plain Language Summaries
- d. Supplemental Permit Information Form (SPIF), Item 1

**Response:** Please see attached Core Data Form, Administrative Report 1.0, Section 1.0, Item A and Section 15 Plain Language Summaries, and SPIF, Item 1 with the revised location description.

2. Administrative Report 1.0, Section 15

Please revise the English and Spanish plain language summaries (PLS) to use the same flow proposed in the application, the final phase flow is 0.1 MGD in the application.

**Response:** Please see attached English and Spanish plain language summaries (PLS) with revised flow.

3. Administrative Report 1.1

Please provide a revised landowner map, cross-reference list, and mailing labels that identify the landowners for the full mile downstream of the discharge point. The mile should also include any portion of the discharge route that is underground.

**Response:** Please see attached revised landowner map, cross-reference list and mailing labels.

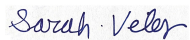
4. There are no proposed changes to the NORI.
5. Administrative Report 1.0, Section 8, Item E, No. 5  
The response indicates that public notices in Spanish are required. After confirming the portion of the NORI above does not contain any errors or omissions, please use the attached template to translate the NORI into Spanish. Only the first and last paragraphs are unique to this application and require translation. Please provide the translated Spanish NORI in a Microsoft Word document.

**Response:** The portion of the NORI is correct, please see the attached NORI translated to Spanish.

The discharge shifted due to added detention, please see attached updated exhibits.

Please contact me if you have any questions or need additional information at 713.341.8093 or by email at [svelez@lja.com](mailto:svelez@lja.com)

Sincerely,



Sarah Velez, PE  
Assistant Project Manager

SV/pn

Attachment(s)

**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.)

Harris County MUD No. 531 WWTP No. 2

**23. Street Address of the Regulated Entity:**

(No PO Boxes)

City

State

ZIP

ZIP + 4

**24. County**

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

**25. Description to Physical Location:**

Approx. 0.50 miles of south of the intersection of Mueschke Rd and Schiel Rd.

**26. Nearest City****State****Nearest ZIP Code**

Cypress

TX

77433

*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:**

30.0089

**28. Longitude (W) In Decimal:**

-95.7330

Degrees

Minutes

Seconds

Degrees

Minutes

Seconds

**29. Primary SIC Code****30. Secondary SIC Code****31. Primary NAICS Code****32. Secondary NAICS Code**

(4 digits)

(4 digits)

(5 or 6 digits)

(5 or 6 digits)

4952

221320

**33. What is the Primary Business of this entity?** (Do not repeat the SIC or NAICS description.)**34. Mailing Address:**

3200 Southwest FWY STE 2600

c/o Allen Boone Humphries Robinson, LLP

City

Houston

State

TX

ZIP

77027

ZIP + 4

7537

**35. E-Mail Address:****36. Telephone Number****37. Extension or Code****38. Fax Number** (if applicable)

( 713 ) 860-6400

( ) -

**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.

Phone No.: [REDACTED] E-mail Address: [REDACTED]

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: [REDACTED]

- 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): [REDACTED]

First and Last Name: [REDACTED]

Mailing Address: [REDACTED]

City, State, Zip Code: [REDACTED]

Phone No.: [REDACTED] E-mail Address: [REDACTED]

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: [REDACTED]

## 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:

Approx. 0.50 miles south of the intersection of Mueschke Rd and Schiel Rd.

- 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:

To a pipe then to a detention pond, thence to a series of pipes then to a detention pond, then to Schiel Road storm sewer then to Little Cypress Creek, then to Cypress Creek Segment 1009 of the San Jacinto River Basin

City nearest the outfall(s): Cypress

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

Outfall Latitude: 30.0088

Longitude: -95.7317

- 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?

## **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.*

Harris County Municipal Utility District No. 531 (CN604577270) proposes to operate Harris County Municipal Utility District No. 531 WWTP No.2 a domestic wastewater treatment plant. The facility will be located approximately 0.50 miles southwest of the intersection of Mueshke Road and Schiel Road, Cypress, in Harris County, Texas 77433.

This application is for a new TDPES permit to ultimately discharge at a daily average flow of 100,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD<sub>5</sub>), total suspended solids (TSS), ammonia nitrogen (NH<sub>3</sub>-N), and Escherichia coli. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater will be treated by an activated sludge process plant and the treatment units will include a bar screen, aeration basins, final clarifiers, sludge digesters, and a chlorine contact chamber

## **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.

Harris County Municipal Utility District No. 531 (CN604577270) propone operar Harris County Municipal Utility District No. 531 WWTP No.2, una planta de aguas residuales. La instalación estará ubicada aproximadamente 0.50 millas sur oeste de Mueshke Road y Schiel Road, Cypress, Condado Harris, Texas 774330.

Esta solicitud propone tratar un ultimo promedio de 100,000 galones diarios de aguas residuales de uso doméstico.

Se espera que la descarga del agua tratada de la instalación contenga demanda de bioquímica de oxígeno de cinco días (CBOD5 por sus siglas en inglés), sólidos suspendidos totales (TSS por sus siglas en ingles), nitrógeno amoniacal ( $\text{NH}_3\text{-N}$ ), y Escherichia coli. Posibles contaminantes adicionales están incluidos en la aplicación en la sección 7 de la aplicación titulada Domestic Technical Report 1.0. Las aguas residuales de uso doméstico serán tratadas en una planta con un sistema de lodos activados que incluye un contenedor con rejillas, tanques aeróbicos, un tanque clarificador, un tanque de contacto de cloro y tanques de digestión.

# 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: Harris County Municipal Utility District No. 531

Permit No. WQ00 \_\_\_\_\_

EPA ID No. TX \_\_\_\_\_

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

Approx. 0.50 miles south of the intersection of Mueschke Rd and Schiel Rd.



HARRIS COUNTY  
M.U.D. 531 WWTP #2  
DISCHARGE PERMIT

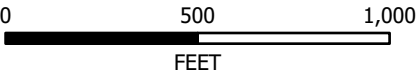
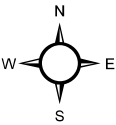
ATTACHMENT 3  
AFFECTED LANDOWNER EXHIBIT FOR  
APPLICANT BOUNDARY

MAY 2023

LEGEND

- POINT OF DISCHARGE
- DISCHARGE ROUTE
- 150' BUFFER ZONE
- WWTP SERVICE AREA
- WWTP SITE BOUNDARY
- AFFECTED HOMEOWNERS
- PARCEL

DATA SOURCE: PARCEL - HARRIS COUNTY APPRAISAL DISTRICT  
(AUGUST 2022)

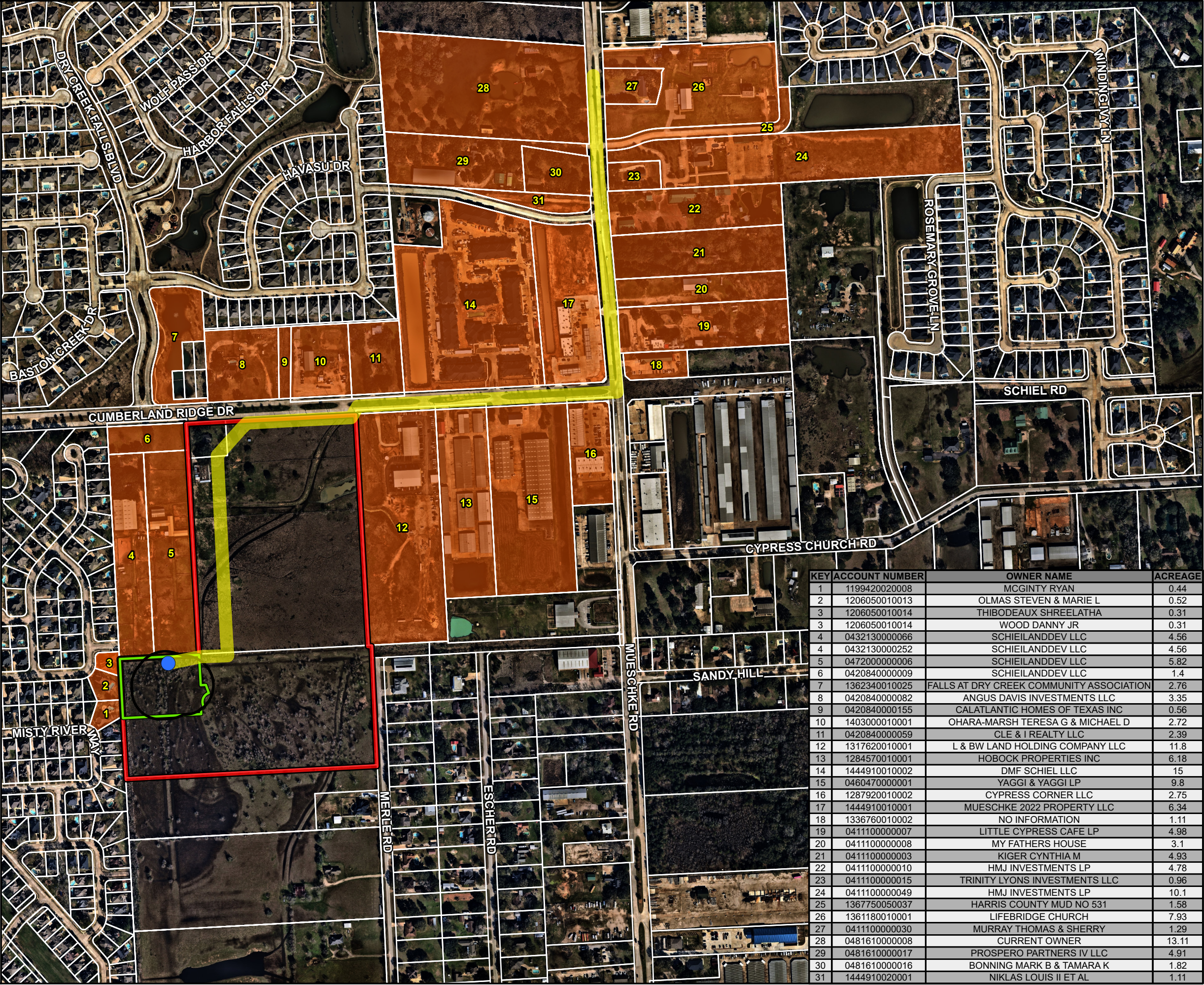


AERIAL PHOTOGRAPH DATE: NEARMAP 2023

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HAVE BEEN PREPARED FOR OR BE SUITABLE FOR LEGAL,  
ENGINEERING, OR SURVEYING PURPOSES. IT DOES NOT  
REPRESENT AN ON-THE-GROUND SURVEY AND REPRESENTS ONLY  
THE APPROXIMATE RELATIVE LOCATION OF PROPERTY  
BOUNDARIES.



3600 W Sam Houston Parkway S, Suite 600  
Houston, Texas 77042  
Phone 713.953.5200 TBPE F-1386  
LJA.com





MCGINTY RYAN  
20118 MISTY RIVER WAY  
CYPRESS, TX 77433-5793

OLMAS STEVEN & MARIE L  
16202 MORNING PINE TRL  
CYPRESS, TX 77433-5849

WOOD DANNY JR  
16206 MORNING PINE TRL  
CYPRESS, TX 77433-5849

THIBODEAUX SHREELATHA  
16206 MORNING PINE TRL  
CYPRESS, TX 77433-5849

SCHIEILANDDEV LLC  
18518 MUESCHKE RD  
CYPRESS, TX 77433

FALLS AT DRY CREEK COMMUNITY  
ASSOCIATION  
17319 SAN PEDRO STE 318  
SAN ANTONIO, TX 78232-1443

ANGUS DAVIS INVESTMENTS LLC  
20228 SCHIEL RD  
CYPRESS, TX 77433-4226

CALATLANTIC HOMES OF TEXAS INC  
681 GREENS PKY STE 220  
HOUSTON, TX 77067-4544

OHARA-MARSH TERESA G & MICHAEL  
D  
20204 SCHIEL RD  
CYPRESS, TX 77433-4226

CLE & I REALTY LLC  
13523 HARGRAVE RD  
HOUSTON, TX 77070-3829

L & BW LAND HOLDING COMPANY LLC  
24011 RUSTLING OAKS  
MAGNOLIA, TX 77355-3720

HOBOCK PROPERTIES INC  
2722 QUINCANNON LN  
HOUSTON, TX 77043-1604

DMF SCHIEL LLC  
2253 N LOOP 336 W STE C  
CONROE, TX 77304-3630

YAGGI & YAGGI LP  
20101 SCHIEL RD  
CYPRESS, TX 77433-4234

CYPRESS CORNER LLC  
16331 DEXTER POINT DR  
CYPRESS, TX 77429-8030

MUESCHKE 2022 PROPERTY LLC  
21021 SPRING BROOK PLAZA DR STE  
215  
SPRING, TX 77379-5340

LITTLE CYPRESS CAFE LP  
8423 WESTVIEW DR  
HOUSTON, TX 77055-4801

MY FATHERS HOUSE  
16420 MUESCHKE RD  
CYPRESS, TX 77433-1403

KIGER CYNTHIA M  
16530 MUESCHKE RD  
CYPRESS, TX 77433-1486

HMJ INVESTMENTS LP  
16536 MUESCHKE RD  
SPRING, TX 77379-

TRINITY LYONS INVESTMENTS LLC  
16602 MUESCHKE RD  
CYPRESS, TX 77433-1487

HARRIS COUNTY MUD NO 531  
PO BOX 1368  
FRIENDSWOOD, TX 77549-1368

LIFEBRIDGE CHURCH  
PO BOX 2390  
CYPRESS, TX 77410-2390

MURRAY THOMAS & SHERRY  
16610 MUESCHKE RD  
CYPRESS, TX 77433-1487

CURRENT OWNER  
615 NORTH LOOP EAST STE 200  
HOUSTON, TX 77022-5934

PROSPERO PARTNERS IV LLC  
16615 MUESCHKE RD  
CYPRESS, TX 77433-1493

BONNING MARK B & TAMARA K  
16607 MUESCHKE RD  
CYPRESS, TX 77433-1493

NIKLAS LOUIS II ET AL  
11907 WINDFERN  
HOUSTON, TX 77064-3200

# Comisión de Calidad Ambiental del Estado de Texas



## AVISO DE RECIBO DE LA SOLICITUD Y EL INTENTO DE OBTENER PERMISO PARA LA CALIDAD DEL AGUA

### PERMISO PROPUESTO NO. WQ00\_\_\_\_\_

**SOLICITUD.** Harris County Municipal Utility No. 531, 3200 Southwest Freeway, Suite 2600, Houston, Texas 77027 ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para el propuesto Permiso No. WQ0016334001 (EPA I.D. No. TX 0144444) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 100,000 galones por día. La planta está ubicada aproximadamente 0.50 millas sur oeste de Mueshke Road y Schiel Road en el Condado de Harris, Tejas 774330. La ruta de descarga es del sitio de la planta a una tubería, luego a un estanque de detención, de allí a una serie de tuberías, luego a un estanque de detención, luego al drenaje pluvial de Schiel Road, luego a Little Cypress Creek, luego a Cypress Creek Segmento 1009 de la cuenca del río San Jacinto.

La TCEQ recibió esta solicitud el 28 de April. La solicitud para el permiso estará disponible para leerla y copiarla en \_ Northwest Branch Library, 11355 Regency Green Drive, Cypress, Tejas antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.733,30.0089&level=18>

*[Include the following non-italicized sentence if the facility is located in the Coastal Management Program boundary. The Coastal Management Program boundary is the area along the Texas Coast of the Gulf of México as depicted on the map in 31 TAC §503.1 and includes part or all of the following counties: Cameron, Willacy, Kenedy, Kleberg, Nueces, San Patricio, Aransas, Refugio, Calhoun, Victoria, Jackson, Matagorda, Brazoria, Galveston, Harris, Chambers, Jefferson y Orange.]* El Director Ejecutivo de la TCEQ ha revisado esta medida para ver si está de acuerdo con los objetivos y las regulaciones del Programa de Administración Costero de Texas (CMP) de acuerdo con las regulaciones del Consejo Coordinador de la Costa (CCC) y ha determinado que la acción es conforme con las metas y regulaciones pertinentes del CMP.

**AVISO ADICIONAL.** El Director Ejecutivo de la TCEQ ha determinado que la solicitud es administrativamente completa y conducirá una revisión técnica de la solicitud. Después de completar la revisión técnica, el Director Ejecutivo puede preparar un borrador del permiso y emitirá una Decisión Preliminar sobre la solicitud. **El aviso de la solicitud y la decisión preliminar serán publicados y enviado a los que están en la lista de correo de las personas a lo largo del condado que desean recibir los avisos y los que están en la lista de correo que desean recibir avisos de esta solicitud. El aviso dará la fecha límite para someter comentarios públicos.**

**COMENTARIO PUBLICO / REUNION PUBLICA.** Usted puede presentar **comentarios públicos o pedir una reunión pública sobre esta solicitud.** El propósito de una reunión pública es dar la oportunidad de presentar comentarios o hacer preguntas acerca de la solicitud. La TCEQ realiza una reunión pública si el Director Ejecutivo determina que hay un grado de interés público suficiente en la solicitud o si un legislador local lo pide. Una reunión pública no es una audiencia administrativa de lo contencioso.

**OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO.** Después del plazo para presentar comentarios públicos, el Director Ejecutivo considerará todos los comentarios apropiados y preparará una respuesta a todos los comentarios públicos esenciales, pertinentes, o significativos. **A menos que la solicitud haya sido referida directamente a una audiencia administrativa de lo contencioso, la respuesta a los comentarios y la decisión del Director Ejecutivo sobre la solicitud serán enviados por correo a todos los que presentaron un comentario público y a las personas que están en la lista para recibir avisos sobre esta solicitud. Si se reciben comentarios, el aviso también proveerá instrucciones para pedir una reconsideración de la decisión del Director Ejecutivo y para pedir una audiencia administrativa de lo contencioso.** Una audiencia administrativa de lo contencioso es un procedimiento legal similar a un procedimiento legal civil en un tribunal de distrito del estado.

**PARA SOLICITAR UNA AUDIENCIA DE CASO IMPUGNADO, USTED DEBE INCLUIR EN SU SOLICITUD LOS SIGUIENTES DATOS:** su nombre, dirección, y número de teléfono; el nombre del solicitante y número del permiso; la ubicación y distancia de su propiedad/actividad con respecto a la instalación; una descripción específica de la forma cómo usted sería afectado adversamente por el sitio de una manera no común al público en general; una lista de todas las cuestiones de hecho en disputa que usted presente durante el período de comentarios; y la declaración "[Yo/nosotros] solicito/solicitamos una audiencia de caso impugnado". Si presenta la petición para una audiencia de caso impugnado de parte de un grupo o asociación, debe identificar una persona que representa al grupo para recibir correspondencia en el futuro; identificar el nombre y la dirección de un miembro del grupo que sería afectado adversamente por la planta o la actividad propuesta; proveer la información indicada anteriormente con respecto a la ubicación del miembro afectado y su distancia de la planta o actividad propuesta; explicar cómo y por qué el miembro sería afectado; y explicar cómo los intereses que el grupo desea proteger son pertinentes al propósito del grupo.

Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración durante una reunión programada de la Comisión. La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios.

**LISTA DE CORREO.** Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la

Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Además, puede pedir que la TCEQ ponga su nombre en una o más de las listas de correos siguientes (1) la lista de correo permanente para recibir los avisos de el solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado específico. Si desea que se agregue su nombre en una de las listas designe cual lista(s) y envía por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

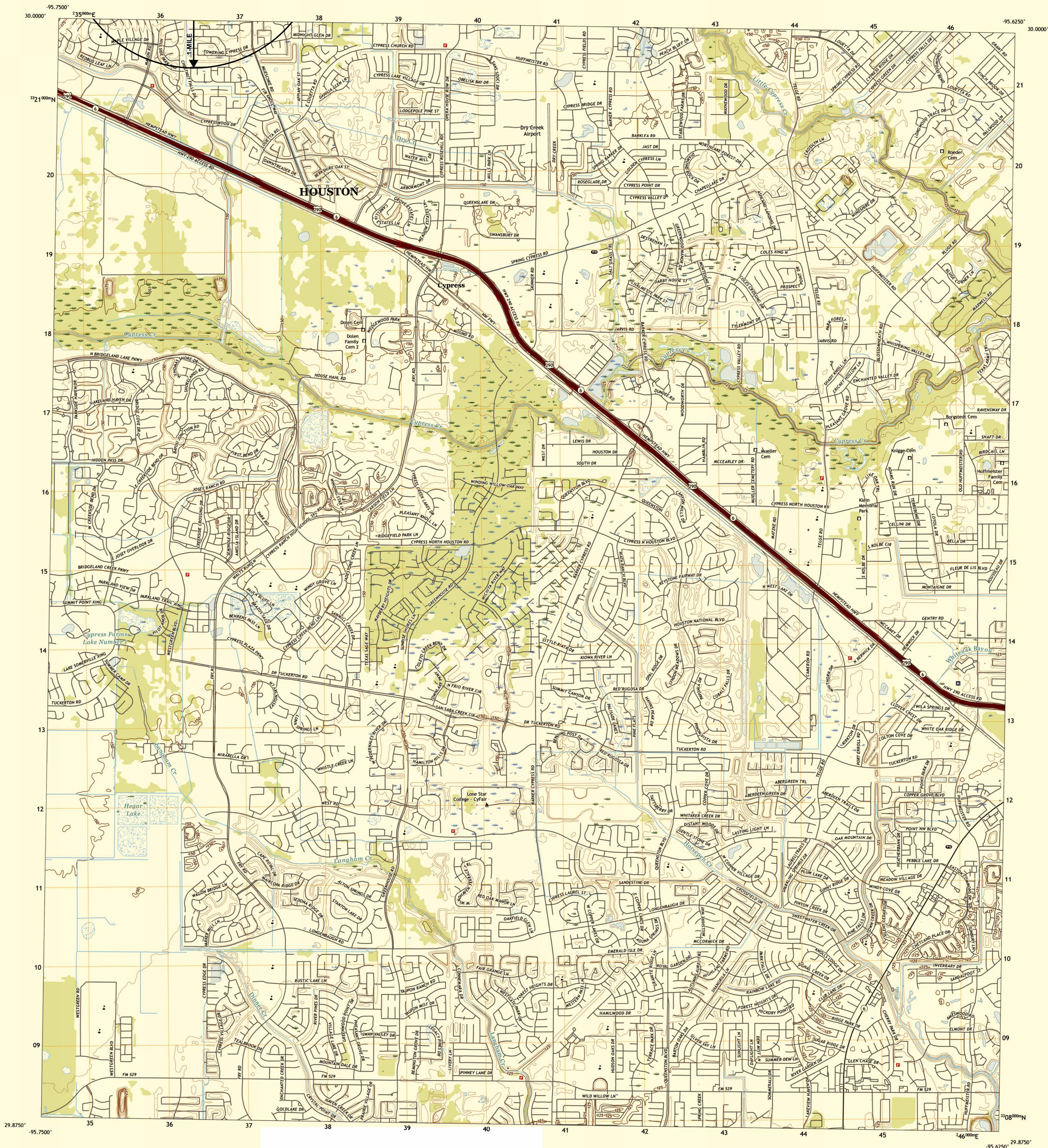
**CONTACTOS E INFORMACIÓN A LA AGENCIA. Todos los comentarios públicos y solicitudes deben ser presentadas electrónicamente vía**

**<http://www14.tceq.texas.gov/epic/eComment/> o por escrito dirigidos a la Comisión de Texas de Calidad Ambiental, Oficial de la Secretaría (Office of Chief Clerk), MC-105, P.O. Box 13087, Austin, Texas 78711-3087.** Tenga en cuenta que cualquier información personal que usted proporcione, incluyendo su nombre, número de teléfono, dirección de correo electrónico y dirección física pasarán a formar parte del registro público de la Agencia. Para obtener más información acerca de esta solicitud de permiso o el proceso de permisos, llame al programa de educación pública de la TCEQ, gratis, al 1-800-687-4040. Si desea información en Español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional del Harris County Municipal District No. 531 a la dirección indicada arriba o llamando a señorita Ashley Broughton, P.E., LJA Engineering, Inc., al 713-380-4443

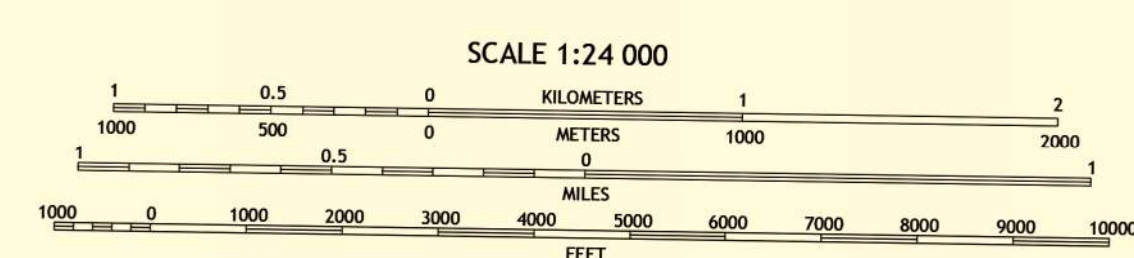
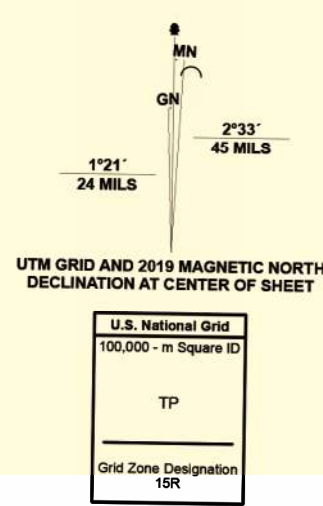
Fecha de emisión \_\_\_\_\_ *[Date notice issued]*





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 15R  
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, September 2016 - November 2016  
Roads.....U.S. Census Bureau, 2015 - 2019  
Names.....GNIS, 1979 - 2022  
Hydrography.....National Hydrography Dataset, 2002 - 2018  
Contours.....National Elevation Dataset, 2010  
Boundaries.....Multiple sources; see metadata file 2019 - 2021  
Wetlands.....FWS National Wetlands Inventory Not Available



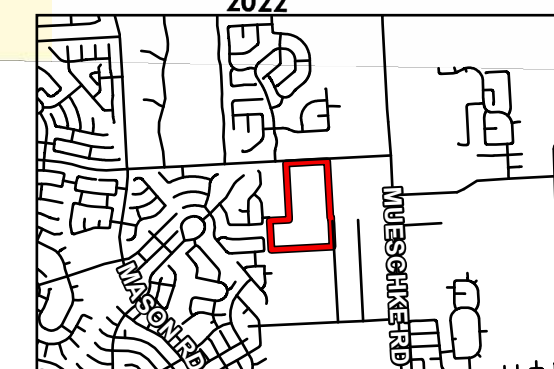
1	2	3
4	5	6
7	8	9

ADJOINING QUADRANGLES

1 Hookley  
2 Rose Hill  
3 Tomball  
4 Warren Lake  
5 Sattsuma  
6 Katy  
7 Addicks  
8 Hedwig Village

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

CYPRESS, TX



ATTACHMENT 3

HARRIS COUNTY M.U.D. NO. 531 #2  
WWTP DISCHARGE PERMIT (1-MILE AND 3-MILE)  
USGS TOPOGRAPHIC MAP

**LJA ENGINEERING**

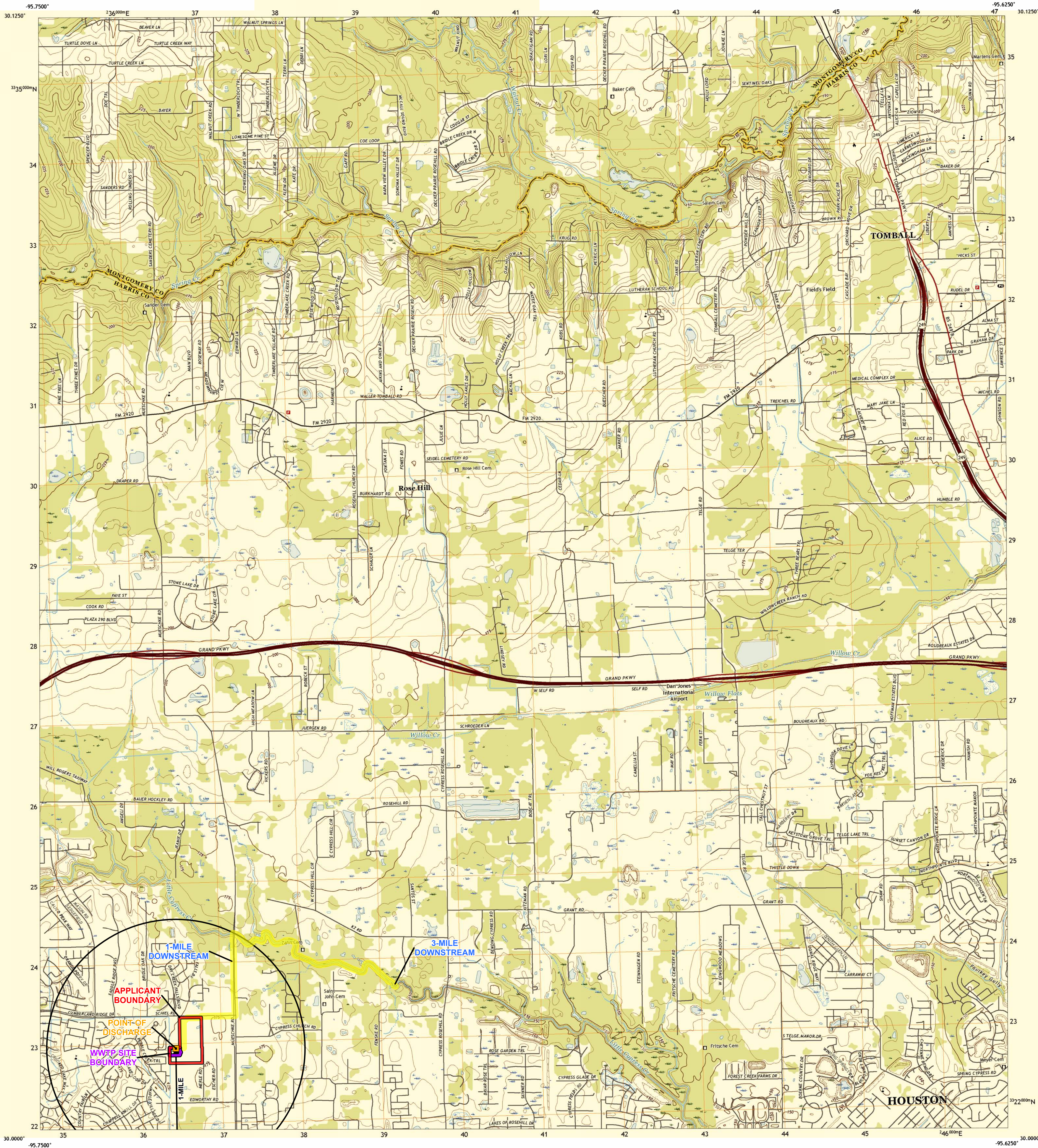
3600 W Sam Houston Parkway S, Suite 600  
Houston, Texas 77042  
Phone 713.953.5200 TBP F-1386  
LJA.com

MAY 2023

JOB NO: 2568-2004

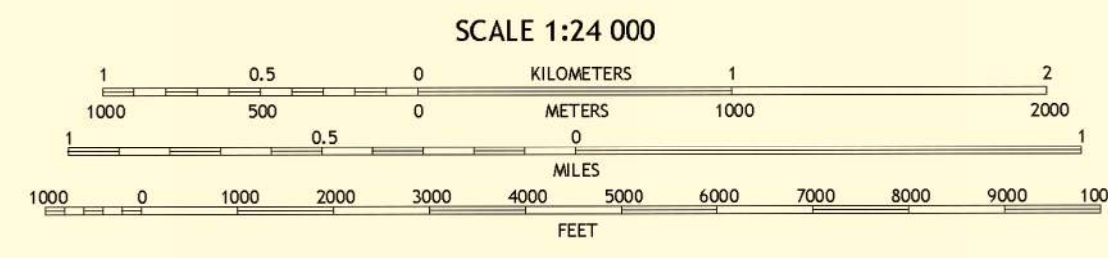
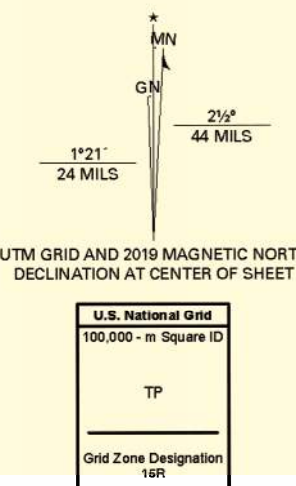






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North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84), Projection and  
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This map is not a legal document. Boundaries may be  
generalized for this map scale. Private lands within government  
reservations may not be shown. Obtain permission before  
entering private lands.

Imagery.....NAP, September 2016 - November 2016  
Roads.....U.S. Census Bureau, 2015  
Names.....GNS, 1979 - 2018  
Hydrography.....National Hydrography Dataset, 2003 - 2018  
Contours.....National Elevation Dataset, 2010  
Boundaries.....Multiple sources; see metadata file 2016 - 2017  
Wetlands.....FWS National Wetlands Inventory 1993

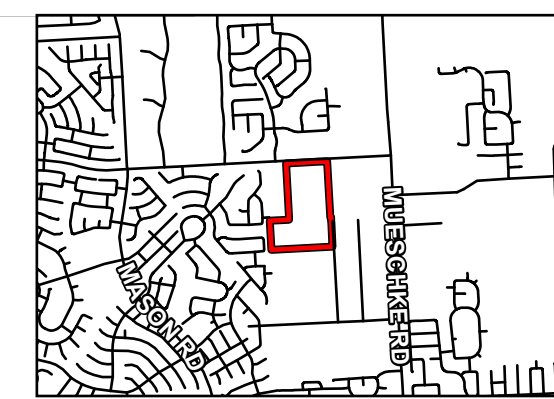


1	2	3
4	5	6
7	8	9

ADJOINING QUADRANGLES

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

ROSE HILL, TX  
2019



ATTACHMENT 3

**HARRIS COUNTY M.U.D. NO. 531 #2  
WWTP DISCHARGE PERMIT (1-MILE AND 3-MILE)  
USGS TOPOGRAPHIC MAP**

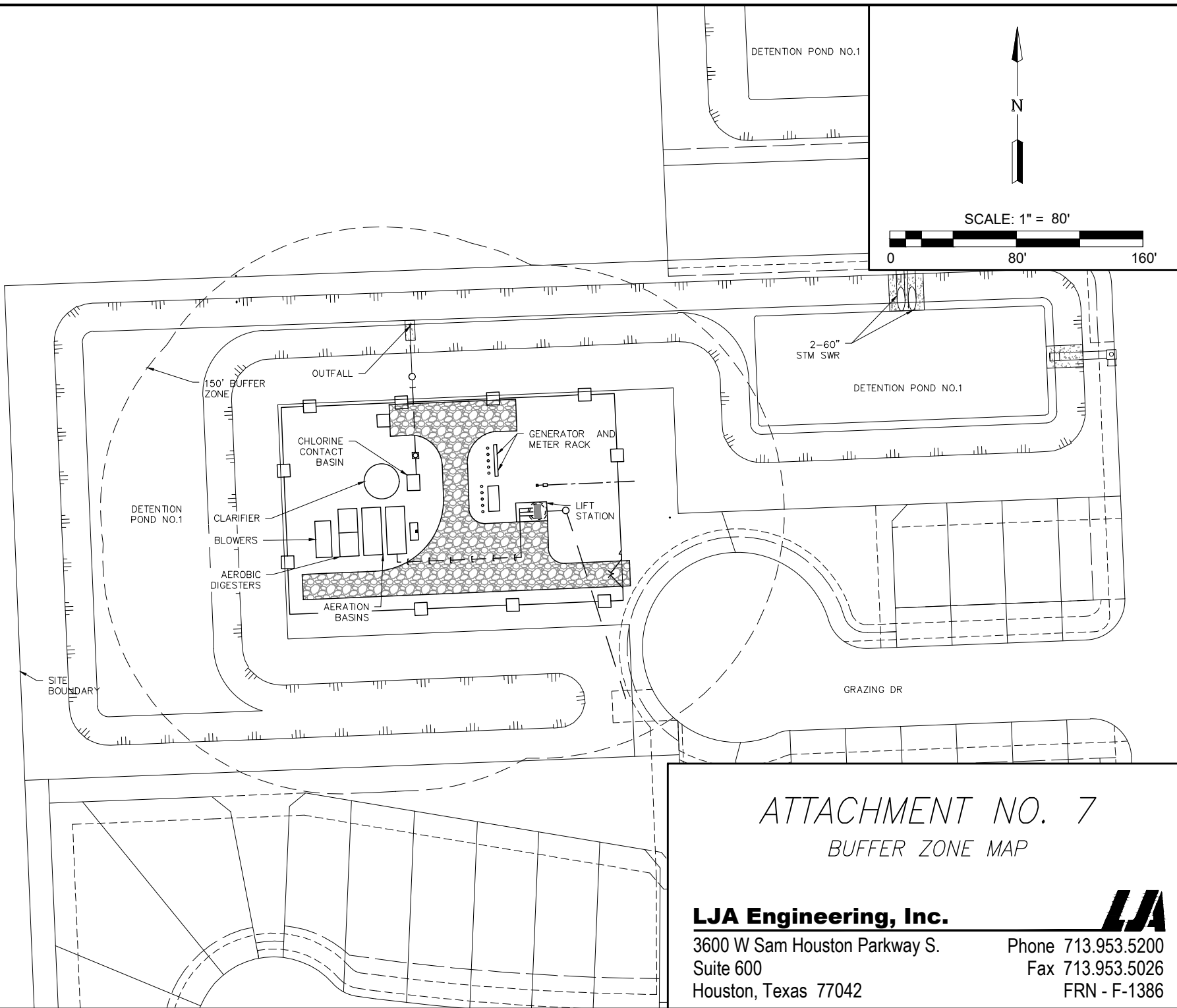
**LJA ENGINEERING**  
3600 W Sam Houston Parkway S, Suite 600  
Houston, Texas 77042  
Phone 713.953.5200 TBE F-1386  
LJA.com

MAY 2023

JOB NO: 2568-2004



Date : Thu, 11 May 2023 - 2:17pm User Name : svelez  
Path : W:\LAND\2568\2005 - HCMUD 531 WWTP 2 Permit\Application\CAD\Site Plan Permit.dwg



## ATTACHMENT NO. 7

### BUFFER ZONE MAP

**LJA Engineering, Inc.**

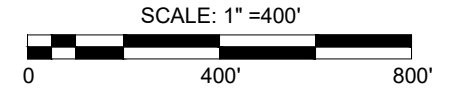
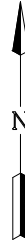
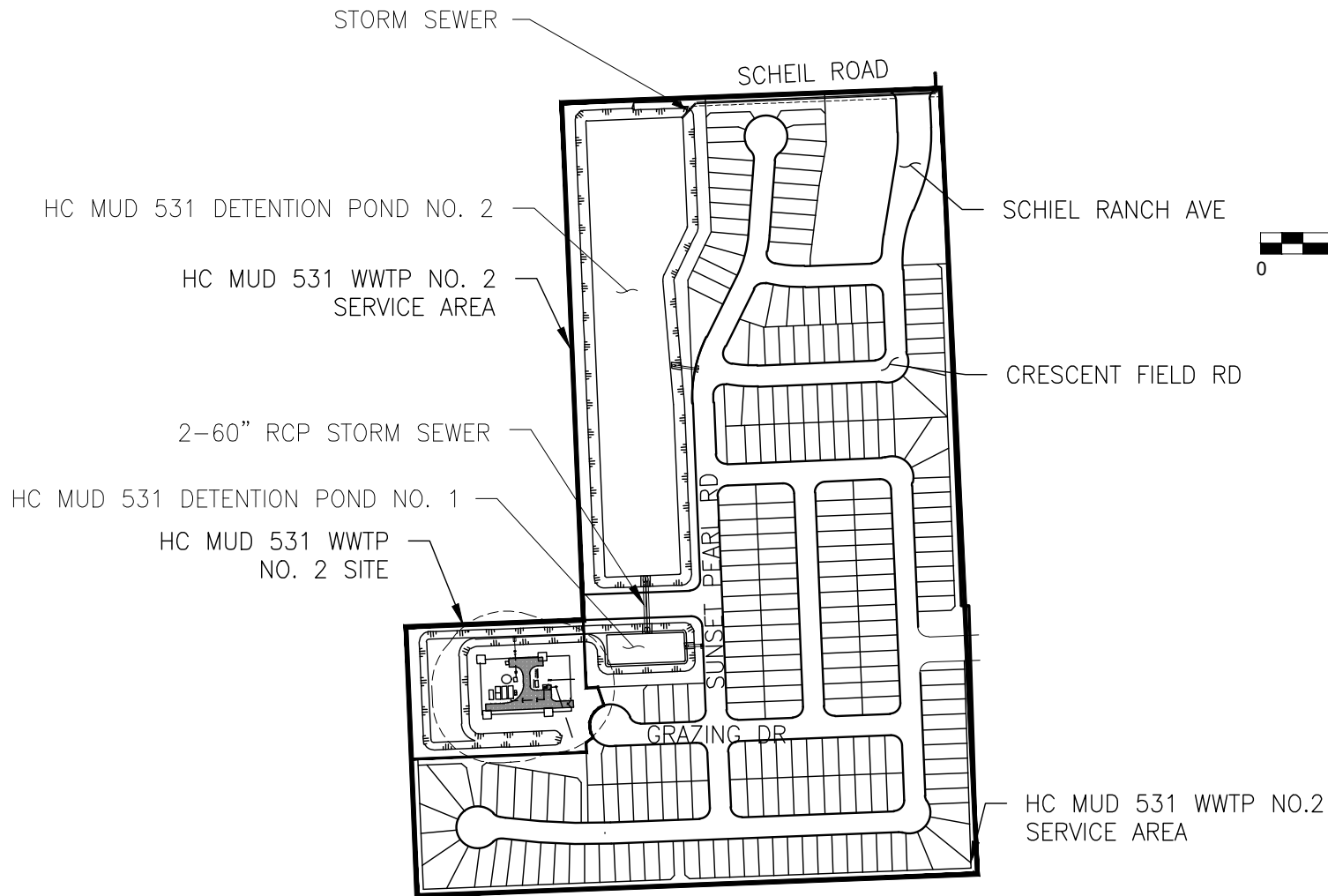
3600 W Sam Houston Parkway S.  
Suite 600  
Houston, Texas 77042

Phone 713.953.5200  
Fax 713.953.5026  
FRN - F-1386



HCM\_000137

Date\\Time : Thu, 11 May 2023 - 2:22pm User Name : svelez  
Path\\Name : W:\\LAND\\2568\\2005 - HCMUD 531 WWTP 2 Permit\\Application\\CAD\\Overall area map.dwg



*ATTACHMENT NO. 11*  
*SITE DRAWING*

**LJA Engineering, Inc.**

3600 W Sam Houston Parkway S  
Suite 600  
Houston, Texas 77042

Phone 713.953.5200  
Fax 713.953.5026  
FRN - F-1386



HCM\_000138



## Sarah Velez

---

**From:** Sarah Velez  
**Sent:** Tuesday, June 6, 2023 5:43 PM  
**To:** John Hearn; Ashley Broughton  
**Subject:** RE: Harris County MUD No. 531\_WQ0016334001  
**Attachments:** Capacity Request Letters.pdf; Buffer Zone.pdf; Special Warranty Deed (0.894 Acre - Wastewater Treatment Plant).pdf

Good afternoon,

Please see attached capacity request letters and revised buffer zone map. I've also attached the warranty deed.

Please let me know if you need additional information.

Thank you,

**Sarah Velez, PE**  
Assistant Project Manager

**LJA Engineering** | We seek solutions.

• 3600 W Sam Houston Parkway S, Suite 600, Houston, TX 77042

D: 713.341.8093

[www.lja.com](http://www.lja.com)

[Facebook](#) • [Twitter](#) • [LinkedIn](#)

---

**From:** John Hearn <John.Hearn@tceq.texas.gov>  
**Sent:** Saturday, June 3, 2023 2:42 PM  
**To:** Ashley Broughton <abroughton@lja.com>; Sarah Velez <svelez@lja.com>  
**Subject:** Harris County MUD No. 531\_WQ0016334001

[EXTERNAL EMAIL]

To whom it may concern,

Thank you for the application for the new municipal wastewater permit WQ0016334001 received on April 28, 2023. The application is currently in pre-technical review. Would you please provide the information outlined below **ASAP, but no later than Monday, June 12, 2023**, so that the review of the application can proceed in a timely manner.

1. **Attachment 13, Nearby Domestic Permitted WWTFs.** Out of the 11 listed WWTP, only 4 of the letters were provided. Could you please provide all of the letters that were sent out, even if the WWTPs have not responded as of yet. Also, if any responses come in from the other 7 WWTPs please route their responses to me.
2. **Attachment 7, Buffer Zone Map.** It is listed in the application that some of the buffer zone will be met through restrictive easement. Has this easement been procured yet? Can you please clearly demarcate the

applicants property boundary, and which areas of the buffer zone will be met through restrictive easement and ***resubmit the revised Buffer zone map.***

Thank you for your time, and please let me know if you have any questions.

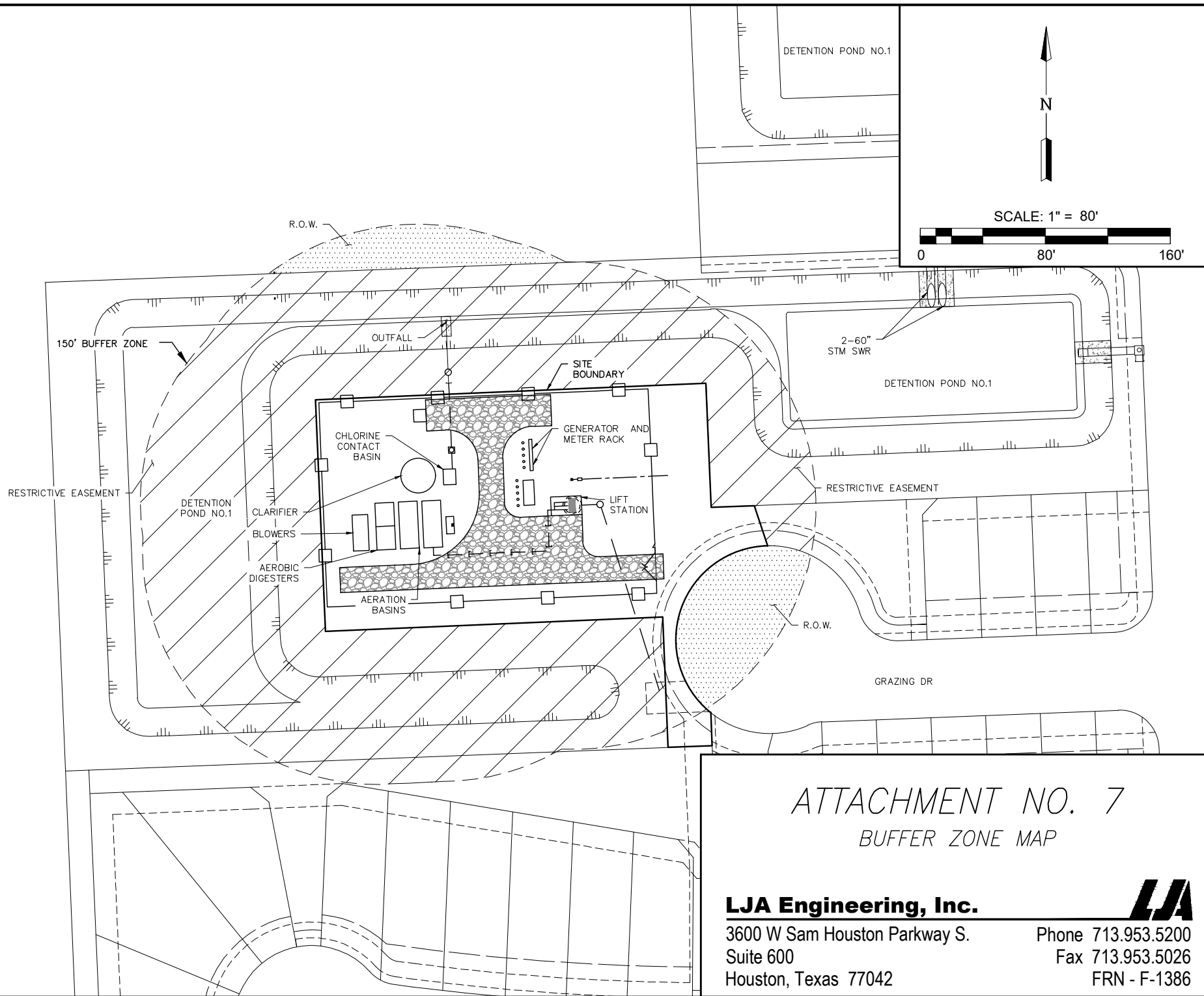
Thanks!

John

**[EXTERNAL EMAIL]** Exercise caution. Do not open attachments or click links from unknown senders or unexpected email



Date: Tue, 06 Jun 2023 - 5:29pm User Name: svelez  
Path: W:\LAND\2568\2005 - HCMUD 531 WWTP 2 Permit\Application\CAD\Site Plan Permit.dwg



## ATTACHMENT NO. 7

### BUFFER ZONE MAP

#### **LJA Engineering, Inc.**

3600 W Sam Houston Parkway S.  
Suite 600  
Houston, Texas 77042

Phone 713.953.5200  
Fax 713.953.5026  
FRN - F-1386



HCM\_000141

April 5, 2023

**VIA CERTIFIED MAIL**

Cypress Hill MUD 1  
1301 McKinney Street Ste. 5100  
Houston, Texas 77010

Re: Wastewater Service Request for Harris County Municipal Utility District No. 531 WWTP  
No. 2  
LJA Job No. 2568-2005 (2.0)

To Whom It May Concern:

We are currently preparing a new permit application for the discharge permit for the Harris County Municipal Utility District No. 531 WWTP No. 2, in Harris County. The proposed development will require 0.10 MGD of wastewater service capacity. TCEQ regulations require us to contact all entities with a permitted wastewater treatment plant within three (3) miles of our plant, and to identify any available capacity at those facilities. Your referred wastewater treatment plant is within a three (3) mile radius from our facility. Please let us know if you have the extra capacity in your facility to accommodate the required flow or are willing to expand your facility to accommodate this flow.

Please respond in writing or indicating below on this letter if the Cypress Hill MUD 1 Wastewater Treatment Plant with TPDES Permit No. WQ0012327001 has available capacity. After you have made the required indication, please email (svelez@lja.com) or mail the response back. We would appreciate a response within ten (10) days. Thank you in advance for your prompt attention regarding this matter.

Sincerely,



Sarah Velez, PE.  
Assistant Project Manager

SV/

- ☐ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: \_\_\_\_\_
- ☐ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_





April 5, 2023

VIA CERTIFIED MAIL

Harris County Municipal Utility District 358  
3200 Southwest Freeway, Ste. 2600  
Houston, Texas 77027

Re: Wastewater Service Request for Harris County Municipal Utility District No. 531 WWTP  
No. 2  
LJA Job No. 2568-2005 (2.0)

To Whom It May Concern:

We are currently preparing a new permit application for the discharge permit for the Harris County Municipal Utility District No. 531 WWTP No. 2, in Harris County. The proposed development will require 0.10 MGD of wastewater service capacity. TCEQ regulations require us to contact all entities with a permitted wastewater treatment plant within three (3) miles of our plant, and to identify any available capacity at those facilities. Your referred wastewater treatment plant is within a three (3) mile radius from our facility. Please let us know if you have the extra capacity in your facility to accommodate the required flow or are willing to expand your facility to accommodate this flow.

Please respond in writing or indicating below on this letter if the Fairfield Village Wastewater Treatment Plant with TPDES Permit No. WQ0013296002 has available capacity. After you have made the required indication, please email (svelez@lja.com) or mail the response back. We would appreciate a response within ten (10) days. Thank you in advance for your prompt attention regarding this matter.

Sincerely,

Sarah Velez, PE.  
Assistant Project Manager

SV/

- ☐ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: \_\_\_\_\_
- ☐ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



April 5, 2023

VIA CERTIFIED MAIL

Bethesda Lutheran Communities, Inc  
18937 Kz Road  
Cypress, TX 77433

Re: Wastewater Service Request for Harris County Municipal Utility District No. 531 WWTP  
No. 2  
LJA Job No. 2568-2005 (2.0)

To Whom It May Concern:

We are currently preparing a new permit application for the discharge permit for the Harris County Municipal Utility District No. 531 WWTP No. 2, in Harris County. The proposed development will require 0.10 MGD of wastewater service capacity. TCEQ regulations require us to contact all entities with a permitted wastewater treatment plant within three (3) miles of our plant, and to identify any available capacity at those facilities. Your referred wastewater treatment plant is within a three (3) mile radius from our facility. Please let us know if you have the extra capacity in your facility to accommodate the required flow or are willing to expand your facility to accommodate this flow.

Please respond in writing or indicating below on this letter if the Bethesda Lutheran Wastewater Treatment Plant with TPDES Permit No. WQ0015244001 has available capacity. After you have made the required indication, please email (svelez@lja.com) or mail the response back. We would appreciate a response within ten (10) days. Thank you in advance for your prompt attention regarding this matter.

Sincerely,

Sarah Velez, PE.  
Assistant Project Manager

SV/

- ☐ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: \_\_\_\_\_
- ☐ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_





3600 W Sam Houston Pkwy S, Suite 600, Houston, Texas 77042  
t 713.953.5200 LJA.com TBPE F-1386 TBPLS 10110501

April 5, 2023

VIA CERTIFIED MAIL

Quadvest, L.P.  
26926 FM 2978  
Magnolia, TX 77354

Re: Wastewater Service Request for Harris County Municipal Utility District No. 531 WWTP  
No. 2  
LJA Job No. 2568-2005 (2.0)

To Whom It May Concern:

We are currently preparing a new permit application for the discharge permit for the Harris County Municipal Utility District No. 531 WWTP No. 2, in Harris County. The proposed development will require 0.10 MGD of wastewater service capacity. TCEQ regulations require us to contact all entities with a permitted wastewater treatment plant within three (3) miles of our plant, and to identify any available capacity at those facilities. Your referred wastewater treatment plant is within a three (3) mile radius from our facility. Please let us know if you have the extra capacity in your facility to accommodate the required flow or are willing to expand your facility to accommodate this flow.

Please respond in writing or indicating below on this letter if the Lakes of Fairhaven Wastewater Treatment Plant with TPDES Permit No. WQ0014434001 has available capacity. After you have made the required indication, please email (svelez@lja.com) or mail the response back. We would appreciate a response within ten (10) days. Thank you in advance for your prompt attention regarding this matter.

Sincerely,

Sarah Velez, PE.  
Assistant Project Manager

SV/

- ☐ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: \_\_\_\_\_
- ☐ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



3600 W Sam Houston Pkwy S, Suite 600, Houston, Texas 77042  
t 713.953.5200 LJA.com TBPE F-1386 TBPLS 10110501

April 5, 2023

VIA CERTIFIED MAIL

Harris County MUD 391  
3200 Southwest Freeway, Ste. 2600  
Houston, Texas 77027

Re: Wastewater Service Request for Harris County Municipal Utility District No. 531 WWTP  
No. 2  
LJA Job No. 2568-2005 (2.0)

To Whom It May Concern:

We are currently preparing a new permit application for the discharge permit for the Harris County Municipal Utility District No. 531 WWTP No. 2, in Harris County. The proposed development will require 0.10 MGD of wastewater service capacity. TCEQ regulations require us to contact all entities with a permitted wastewater treatment plant within three (3) miles of our plant, and to identify any available capacity at those facilities. Your referred wastewater treatment plant is within a three (3) mile radius from our facility. Please let us know if you have the extra capacity in your facility to accommodate the required flow or are willing to expand your facility to accommodate this flow.

Please respond in writing or indicating below on this letter if the Harris County MUD 391 Wastewater Treatment Plant with TPDES Permit No. WQ0014327001 has available capacity. After you have made the required indication, please email (svelez@lja.com) or mail the response back. We would appreciate a response within ten (10) days. Thank you in advance for your prompt attention regarding this matter.

Sincerely,

Sarah Velez, PE.  
Assistant Project Manager

SV/

- ☐ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: \_\_\_\_\_
- ☐ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_





3600 W Sam Houston Pkwy S, Suite 600, Houston, Texas 77042  
t 713.953.5200 LJA.com TBPE F-1386 TBPLS 10110501

April 5, 2023

VIA CERTIFIED MAIL

Dunham Pointe Development LLC  
1305 Afton Street  
Houston, TX 77055

Re: Wastewater Service Request for Harris County Municipal Utility District No. 531 WWTP  
No. 2  
LJA Job No. 2568-2005 (2.0)

To Whom It May Concern:

We are currently preparing a new permit application for the discharge permit for the Harris County Municipal Utility District No. 531 WWTP No. 2, in Harris County. The proposed development will require 0.10 MGD of wastewater service capacity. TCEQ regulations require us to contact all entities with a permitted wastewater treatment plant within three (3) miles of our plant, and to identify any available capacity at those facilities. Your referred wastewater treatment plant is within a three (3) mile radius from our facility. Please let us know if you have the extra capacity in your facility to accommodate the required flow or are willing to expand your facility to accommodate this flow.

Please respond in writing or indicating below on this letter if the Harris County Improvement District 13 Wastewater Treatment Plant with TPDES Permit No. WQ0015490001 has available capacity. After you have made the required indication, please email (svelez@lja.com) or mail the response back. We would appreciate a response within ten (10) days. Thank you in advance for your prompt attention regarding this matter.

Sincerely,

Sarah Velez, PE.  
Assistant Project Manager

SV/

- ☐ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: \_\_\_\_\_
- ☐ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



3600 W Sam Houston Pkwy S, Suite 600, Houston, Texas 77042  
t 713.953.5200 LJA.com TBPE F-1386 TBPLS 10110501

April 5, 2023

VIA CERTIFIED MAIL

Cypress Grand Parkway (Houston) ASLI IX, LLC923  
N Pennsylvania Ave  
Winter Park, FL 32789

Re: Wastewater Service Request for Harris County Municipal Utility District No. 531 WWTP  
No. 2  
LJA Job No. 2568-2005 (2.0)

To Whom It May Concern:

We are currently preparing a new permit application for the discharge permit for the Harris County Municipal Utility District No. 531 WWTP No. 2, in Harris County. The proposed development will require 0.10 MGD of wastewater service capacity. TCEQ regulations require us to contact all entities with a permitted wastewater treatment plant within three (3) miles of our plant, and to identify any available capacity at those facilities. Your referred wastewater treatment plant is within a three (3) mile radius from our facility. Please let us know if you have the extra capacity in your facility to accommodate the required flow or are willing to expand your facility to accommodate this flow.

Please respond in writing or indicating below on this letter if the Harris County MUD District 441 Wastewater Treatment Plant with TPDES Permit No. WQ0015795001 has available capacity. After you have made the required indication, please email (svelez@lja.com) or mail the response back. We would appreciate a response within ten (10) days. Thank you in advance for your prompt attention regarding this matter.

Sincerely,

Sarah Velez, PE.  
Assistant Project Manager

SV/

- ☐ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: \_\_\_\_\_
- ☐ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_





3600 W Sam Houston Pkwy S, Suite 600, Houston, Texas 77042  
t 713.953.5200 LJA.com TBPE F-1386 TBPLS 10110501

April 5, 2023

VIA CERTIFIED MAIL

Prologis LP  
9655 Katy Freeway, Ste. 400  
Houston, TX 77024

Re: Wastewater Service Request for Harris County Municipal Utility District No. 531 WWTP  
No. 2  
LJA Job No. 2568-2005 (2.0)

To Whom It May Concern:

We are currently preparing a new permit application for the discharge permit for the Harris County Municipal Utility District No. 531 WWTP No. 2, in Harris County. The proposed development will require 0.10 MGD of wastewater service capacity. TCEQ regulations require us to contact all entities with a permitted wastewater treatment plant within three (3) miles of our plant, and to identify any available capacity at those facilities. Your referred wastewater treatment plant is within a three (3) mile radius from our facility. Please let us know if you have the extra capacity in your facility to accommodate the required flow or are willing to expand your facility to accommodate this flow.

Please respond in writing or indicating below on this letter if the Legacy Ranch Business Park Wastewater Treatment Facility with TPDES Permit No. WQ0016215001 has available capacity. After you have made the required indication, please email (svelez@lja.com) or mail the response back. We would appreciate a response within ten (10) days. Thank you in advance for your prompt attention regarding this matter.

Sincerely,

Sarah Velez, PE.  
Assistant Project Manager

SV/

- ☐ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: \_\_\_\_\_
- ☐ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



3600 W Sam Houston Pkwy S, Suite 600, Houston, Texas 77042  
t 713.953.5200 LJA.com TBPE F-1386 TBPLS 10110501

April 5, 2023

VIA CERTIFIED MAIL

93 Schiel Road, Ltd.  
5151 San Felipe  
Houston, TX 77056

Re: Wastewater Service Request for Harris County Municipal Utility District No. 531 WWTP  
No. 2  
LJA Job No. 2568-2005 (2.0)

To Whom It May Concern:

We are currently preparing a new permit application for the discharge permit for the Harris County Municipal Utility District No. 531 WWTP No. 2, in Harris County. The proposed development will require 0.10 MGD of wastewater service capacity. TCEQ regulations require us to contact all entities with a permitted wastewater treatment plant within three (3) miles of our plant, and to identify any available capacity at those facilities. Your referred wastewater treatment plant is within a three (3) mile radius from our facility. Please let us know if you have the extra capacity in your facility to accommodate the required flow or are willing to expand your facility to accommodate this flow.

Please respond in writing or indicating below on this letter if the 270 Ac. Industrial Park Wastewater Treatment Plant with TPDES Permit No. WQ0015779001 has available capacity. After you have made the required indication, please email (svelez@lja.com) or mail the response back. We would appreciate a response within ten (10) days. Thank you in advance for your prompt attention regarding this matter.

Sincerely,

Sarah Velez, PE.  
Assistant Project Manager

SV/

- ☐ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: \_\_\_\_\_
- ☐ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_





April 5, 2023

VIA CERTIFIED MAIL

Harris County MUD 535  
3200 Southwest Freeway, Ste. 2600  
Houston, Texas 77027

Re: Wastewater Service Request for Harris County Municipal Utility District No. 531 WWTP  
No. 2  
LJA Job No. 2568-2005 (2.0)

To Whom It May Concern:

We are currently preparing a new permit application for the discharge permit for the Harris County Municipal Utility District No. 531 WWTP No. 2, in Harris County. The proposed development will require 0.10 MGD of wastewater service capacity. TCEQ regulations require us to contact all entities with a permitted wastewater treatment plant within three (3) miles of our plant, and to identify any available capacity at those facilities. Your referred wastewater treatment plant is within a three (3) mile radius from our facility. Please let us know if you have the extra capacity in your facility to accommodate the required flow or are willing to expand your facility to accommodate this flow.

Please respond in writing or indicating below on this letter if the Harris County MUD 535 Wastewater Treatment Plant with TPDES Permit No. WQ0016190001 has available capacity. After you have made the required indication, please email (svelez@lja.com) or mail the response back. We would appreciate a response within ten (10) days. Thank you in advance for your prompt attention regarding this matter.

Sincerely,

Sarah Velez, PE.  
Assistant Project Manager

SV/

- ☐ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: \_\_\_\_\_
- ☐ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**SPECIAL WARRANTY DEED  
(0.894 Acre - Wastewater Treatment Plant)**

**NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OR ALL OF THE FOLLOWING INFORMATION FROM ANY INSTRUMENT THAT TRANSFERS AN INTEREST IN REAL PROPERTY BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER**

**THE STATE OF TEXAS           §  
  §     **KNOW ALL BY THESE PRESENTS:**  
COUNTY OF HARRIS         §**

THAT AHV SCHIEL BFR OWNER, LLC, a Delaware limited liability company ("Grantor"), for and in consideration of the sum of Ten and No/100 Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, has GRANTED, BARGAINED, SOLD and CONVEYED, and by these presents does GRANT, BARGAIN, SELL and CONVEY unto **HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 531**, a political subdivision of the State of Texas, its successors and assigns ("Grantee"), all of that certain tract of real property situated in Harris County, Texas, containing 0.894 acre, as more particularly described in **Exhibit A** and shown on **Exhibit B**, both attached hereto and incorporated herein for all purposes, together with all rights, titles, and interests appurtenant thereto and any and all improvements situated thereon (collectively, the "Property").

This Special Warranty Deed and the conveyance hereinabove set forth are executed by Grantor and accepted by Grantee subject to the terms, conditions and provisions hereof and further subject to all easements, conditions, restrictions, covenants, mineral or royalty interests, mineral reservations, surface waivers, utility conveyances, liens, encumbrances, regulations or orders of municipal and/or other governmental authorities, if any, or other matters of record in Harris County, Texas, to the extent the same are validly existing and applicable to the Property (collectively, the "Permitted Encumbrances").

TO HAVE AND TO HOLD the Property, together with all and singular the rights and appurtenances thereunto in anywise belonging, unto Grantee, its successors and assigns, forever, and Grantor does hereby bind itself, its successors and assigns, to WARRANT AND FOREVER DEFEND, all and singular the title to the Property unto Grantee, its successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof by, through, or under Grantor, but not otherwise, subject only to the Permitted Encumbrances.

RP-2023-191426

Grantee's address is c/o Allen Boone Humphries Robinson LLP, 3200 Southwest Freeway, Suite 2600, Houston, Texas 77027.

*[Signature pages follow this page.]*

RP-2023-191426



EXECUTED this 20<sup>th</sup> day of April, 2023.

**GRANTOR:**

AHV SCHIEL BFR OWNER, LLC,  
a Delaware limited liability company

By: 

Name: Michael Seiden

Title: Authorized Signatory

**ACKNOWLEDGEMENT**

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA

§

COUNTY OF Orange

§

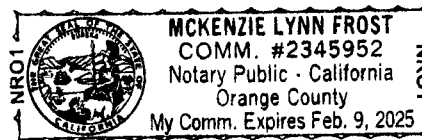
§

On April 20, 2023, before me, McKenzie Frost, Notary Public  
(insert name and title of officer), personally appeared Michael Seiden, Authorized Signatory, who proved to me on the basis of satisfactory evidence to be the person whose name is/are subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument, the person or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature 



(Seal)

EXECUTED by Grantee on the date set forth in the acknowledgment below, but AGREED to, ACCEPTED, and EFFECTIVE as of the date executed by Grantor.

**GRANTEE:**

**HARRIS COUNTY MUNICIPAL  
UTILITY DISTRICT NO. 531**

By: Paul White  
Name: PAUL R. White  
Title: President

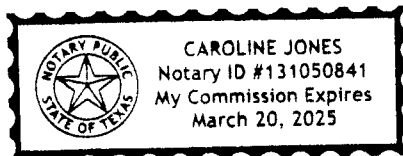
**ATTEST:**

By: Brad Wojcik  
Name: BRAD WOJCIK  
Title: SECRETARY

THE STATE OF TEXAS           §  
  §  
COUNTY OF Harris           §

This instrument was acknowledged before me on the 20<sup>th</sup> day of April, 2023, by Paul White, President, and Brad Wojcik, Secretary of the Board of Directors of HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 531, a political subdivision of the State of Texas, on behalf of said political subdivision.

(NOTARY SEAL)



Caroline Jones  
Notary Public, State of Texas

RP-2023-191426

**Attachments:**

Exhibit A – Description of the Property

Exhibit B – Sketch of the Property

**After recording, please return to:**

Allen Boone Humphries Robinson LLP

3200 Southwest Freeway, Suite 2600

Houston, Texas 77027

Attention: Real Estate Department

RP-2023-191426



DESCRIPTION OF  
0.894 ACRE (38,956 SQUARE FEET)  
WASTE WATER TREATMENT PLANT

Being a 0.894 acre (38,956 square feet) tract of land out of the J.W. Moody Survey, Abstract 547, and the Daniel Schiel Survey, Abstract 1428, Harris County, Texas, more particular being a portion of that certain called 19.378 acre tract conveyed to AHV Schiel BFR Owner, LLC, by instrument of record in File Number RP-2022-607301, of the Official Public Records of Real Property, Harris County, Texas (H.C.O.P.R.R.P.), said 0.894 acre (38,956 square feet) being more particularly described by metes and bounds as follows: (Bearings based on the Texas State Plane Coordinate System, South Central Zone, 4204).

COMMENCING for reference at an axle found marking the northwest corner of said 19.378 acres, same being the southwest corner of that certain called 11.784 acre tract conveyed to 20239 Schiel, LLC, by instrument of record in File Number 20130602917, H.C.O.P.R.R.P, same being on the east line of Trails of Fairfield Section Six, a subdivision of record at Film Code No. 435136 of the Map Records of said Harris County (H.C.M.R.);

Thence, North 87° 49' 49" East, along the north line of said 19.378 acres and the south line of said 11.784 acres, 419.60 feet a 5/8-inch iron rod found marking the southeast corner of said 11.784 acres and the southwest corner of that certain called 25.132 acre tract conveyed to AHV Schiel BFR Owner, LLC, by instrument of record in File Number RP-2022-596619, H.C.O.P.R.R.P.;

Thence, South 02° 24' 27" East, departing the north line of said 19.378 acres, 80.53 feet to the POINT OF BEGINNING of the herein described tract;

Thence, South 02° 24' 27" East, 79.61 feet to a point for corner;

Thence, North 87° 44' 54" East, 27.51 feet to a point for corner;

Thence, South 18° 45' 40" East, 27.18 feet to a point for corner, the beginning of a curve;

0.894 acre

Job No. 2568-2005

Thence, 146.05 feet along the arc of a non-tangent curve to the left, having a radius of 60.00 feet, a central angle of  $139^{\circ} 28' 06''$ , and a chord which bears South  $18^{\circ} 56' 00''$  West, 112.57 feet to a point for corner;

Thence, South  $02^{\circ} 15' 11''$  East, 21.28 feet to a point for corner;

Thence, South  $87^{\circ} 44' 54''$  West, 28.27 feet to a point for corner;

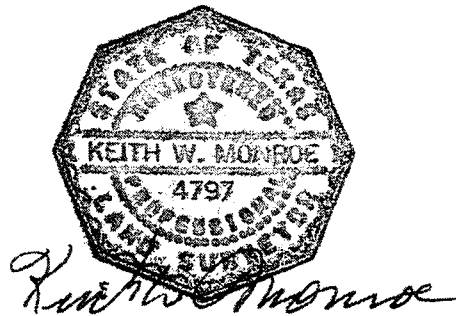
Thence, North  $02^{\circ} 15' 06''$  West, 83.42 feet to a point for corner;

Thence, South  $87^{\circ} 33' 43''$  West, 216.05 feet to a point for corner;

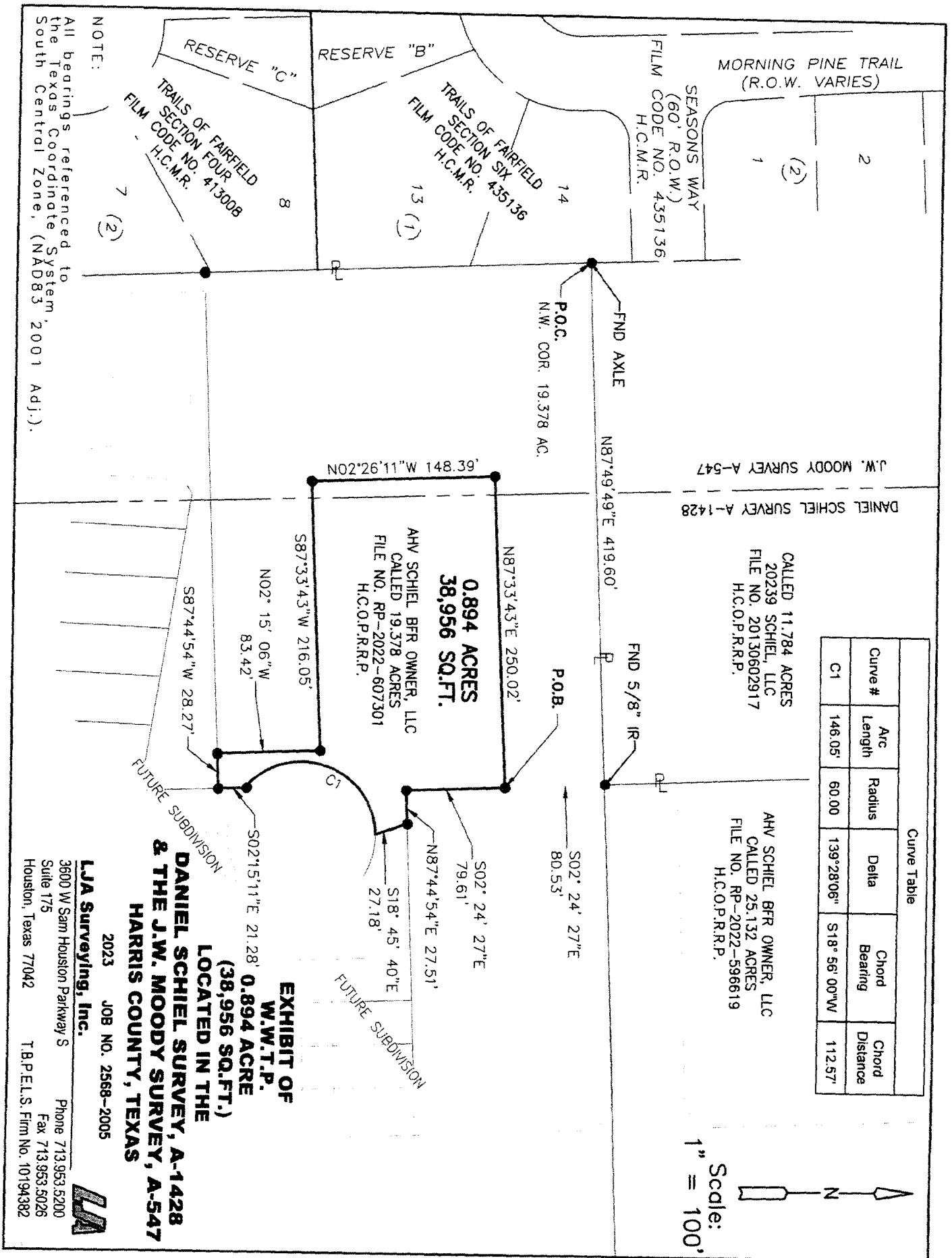
Thence, North  $02^{\circ} 26' 11''$  West, 148.39 feet to a point for corner;

Thence, North  $87^{\circ} 33' 43''$  East, 250.02 feet to the POINT OF BEGINNING and containing 0.894 acre (38,956 square feet) of land.

Corner monuments were not set at the client's request.



LJA Surveying, Inc





RP-2023-191426  
# Pages 9  
05/25/2023 10:02 AM  
e-Filed & e-Recorded in the  
Official Public Records of  
HARRIS COUNTY  
TENESHIA HUDSPETH  
COUNTY CLERK  
Fees \$46.00

RECORDERS MEMORANDUM

This instrument was received and recorded electronically  
and any blackouts, additions or changes were present  
at the time the instrument was filed and recorded.

Any provision herein which restricts the sale, rental, or  
use of the described real property because of color or  
race is invalid and unenforceable under federal law.  
THE STATE OF TEXAS  
COUNTY OF HARRIS

I hereby certify that this instrument was FILED in  
File Number Sequence on the date and at the time stamped  
hereon by me; and was duly RECORDED in the Official  
Public Records of Real Property of Harris County, Texas.



*Teneshia Hudspeth*  
COUNTY CLERK  
HARRIS COUNTY, TEXAS

## Sarah Velez

---

**From:** Sarah Velez  
**Sent:** Monday, June 12, 2023 1:58 PM  
**To:** Leah Whallon; Ashley Broughton  
**Subject:** RE: Application for Proposed Permit No. WQ0016334001; Harris County MUD 531 WWTP 2  
**Attachments:** NOD Response WQ0016334001.pdf; Mailing Labels.docx; Municipal Discharge New Spanish NORI\_.docx

Good afternoon,

Please see below responses for the application for proposed Permit No. WQ0016334001 for HCMUD 531 WWTP 2.

1. The affected landowner map was revised to include the downstream landowners, but the new map does not include all landowners adjacent to the applicant's property boundary. In particular, the landowners listed as numbers 8-19 on the original map are not included, but will need to be.

**Response: Please see revised landowners map.**

2. The separate cross-referenced list for the landowners was not provided.

**Response: Please see updated cross-reference list.**

3. The mailing labels in a Microsoft Word document were not provided.

**Response: Please see updated mailing labels in word.**

4. The location description of 0.5 miles south of the intersection of Mueschke Rd and Schiel Rd is not accurate as the proposed location is southwest and not south of that intersection. The PLS uses southwest, but the other requested pages will need to be revised to provide an accurate description of the location in the requested format.

**Response: The location description has been updated to 0.5 miles southwest.**

5. The Spanish NORI in a Microsoft Word document was not provided.

**Response: Please see the Spanish NORI in word.**

Please let me know if you need additional information.

Thank you,

**Sarah Velez, PE**  
Assistant Project Manager

**LJA Engineering |** We seek solutions.

● 3600 W Sam Houston Parkway S, Suite 600, Houston, TX 77042  
D: 713.341.8093  
[www.lja.com](http://www.lja.com)  
[Facebook](#) • [Twitter](#) • [LinkedIn](#)

---

**From:** Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>  
**Sent:** Monday, June 5, 2023 9:21 AM

**To:** Sarah Velez <svelez@lja.com>; Ashley Broughton <abroughton@lja.com>

**Subject:** RE: Application for Proposed Permit No. WQ0016334001; Harris County MUD 531 WWTP 2

[EXTERNAL EMAIL]

Hi Sarah,

The originals were received by mail last week and I've reviewed the response, but it looks like several items are still missing or incomplete:

1. The affected landowner map was revised to include the downstream landowners, but the new map does not include all landowners adjacent to the applicant's property boundary. In particular, the landowners listed as numbers 8-19 on the original map are not included, but will need to be.
2. The separate cross-referenced list for the landowners was not provided.
3. The mailing labels in a Microsoft Word document were not provided.
4. The location description of 0.5 miles south of the intersection of Mueschke Rd and Schiel Rd is not accurate as the proposed location is southwest and not south of that intersection. The PLS uses southwest, but the other requested pages will need to be revised to provide an accurate description of the location in the requested format.
5. The Spanish NORI in a Microsoft Word document was not provided.

A second NOD letter allowing for an additional 30 days to complete the response will be sent separately. The original NOD letter is attached again here for reference. Please let me know if you have any questions.

Thanks,



**Leah Whallon**

Texas Commission on Environmental Quality

Water Quality Division

512-239-0084

[leah.whallon@tceq.texas.gov](mailto:leah.whallon@tceq.texas.gov)

How is our customer service? Fill out our online customer satisfaction survey at [www.tceq.texas.gov/customersurvey](http://www.tceq.texas.gov/customersurvey)

---

**From:** Sarah Velez <[svelez@lja.com](mailto:svelez@lja.com)>

**Sent:** Monday, May 22, 2023 4:29 PM

**To:** Leah Whallon <[Leah.Whallon@Tceq.Texas.Gov](mailto:Leah.Whallon@Tceq.Texas.Gov)>; Ashley Broughton <[abroughton@lja.com](mailto:abroughton@lja.com)>

**Subject:** RE: Application for Proposed Permit No. WQ0016334001; Harris County MUD 531 WWTP 2

Good afternoon Leah, please see attached NOD response. You will receive one original and two copies by mail.

Thank you,



**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.)

Harris County MUD No. 531 WWTP No. 2

**23. Street Address of the Regulated Entity:**(No PO Boxes)

City

State

ZIP

ZIP + 4

**24. County**

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

**25. Description to Physical Location:**

Approx. 0.50 miles of southwest of the intersection of Mueschke Rd and Schiel Rd.

**26. Nearest City****State****Nearest ZIP Code**

Cypress

TX

77433

*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:**

30.0089

**28. Longitude (W) In Decimal:**

-95.7330

Degrees

Minutes

Seconds

Degrees

Minutes

Seconds

**29. Primary SIC Code****30. Secondary SIC Code****31. Primary NAICS Code****32. Secondary NAICS Code**

(4 digits)

(4 digits)

(5 or 6 digits)

(5 or 6 digits)

4952

221320

**33. What is the Primary Business of this entity?** (Do not repeat the SIC or NAICS description.)**34. Mailing Address:**

3200 Southwest FWY STE 2600

c/o Allen Boone Humphries Robinson, LLP

City

Houston

State

TX

ZIP

77027

ZIP + 4

7537

**35. E-Mail Address:****36. Telephone Number****37. Extension or Code****38. Fax Number** (if applicable)

( 713 ) 860-6400

( ) -

**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.

Phone No.: [REDACTED] E-mail Address: [REDACTED]

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: [REDACTED]

- 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): [REDACTED]

First and Last Name: [REDACTED]

Mailing Address: [REDACTED]

City, State, Zip Code: [REDACTED]

Phone No.: [REDACTED] E-mail Address: [REDACTED]

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: [REDACTED]

## 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:

Approx. 0.50 miles southwest of the intersection of Mueschke Rd and Schiel Rd.

- 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:

To a pipe then to a detention pond, thence to a series of pipes then to a detention pond, then to Schiel Road storm sewer then to Little Cypress Creek, then to Cypress Creek Segment 1009 of the San Jacinto River Basin

City nearest the outfall(s): Cypress

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

Outfall Latitude: 30.0088

Longitude: -95.7317

- 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?

## **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.*

Harris County Municipal Utility District No. 531 (CN604577270) proposes to operate Harris County Municipal Utility District No. 531 WWTP No.2 a domestic wastewater treatment plant. The facility will be located approximately 0.50 miles southwest of the intersection of Mueshke Road and Schiel Road, Cypress, in Harris County, Texas 77433.

This application is for a new TDPES permit to ultimately discharge at a daily average flow of 100,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD<sub>5</sub>), total suspended solids (TSS), ammonia nitrogen (NH<sub>3</sub>-N), and Escherichia coli. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater will be treated by an activated sludge process plant and the treatment units will include a bar screen, aeration basins, final clarifiers, sludge digesters, and a chlorine contact chamber



## **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.

Harris County Municipal Utility District No. 531 (CN604577270) propone operar Harris County Municipal Utility District No. 531 WWTP No.2, una planta de aguas residuales. La instalación estará ubicada aproximadamente 0.50 millas sur oeste de Mueshke Road y Schiel Road, Cypress, Condado Harris, Texas 774330.

Esta solicitud propone tratar un ultimo promedio de 100,000 galones diarios de aguas residuales de uso doméstico.

Se espera que la descarga del agua tratada de la instalación contenga demanda de bioquímica de oxígeno de cinco días (CBOD5 por sus siglas en inglés), sólidos suspendidos totales (TSS por sus siglas en ingles), nitrógeno amoniacal (NH<sub>3</sub>-N), y Escherichia coli. Posibles contaminantes adicionales están incluídos en la aplicación en la sección 7 de la aplicación titulada Domestic Technical Report 1.0. Las aguas residuales de uso doméstico serán tratadas en una planta con un sistema de lodos activados que incluye un contenedor con rejillas, tanques aeróbicos, un tanque clarificador, un tanque de contacto de cloro y tanques de digestión.

# 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: Harris County Municipal Utility District No. 531

Permit No. WQ00 \_\_\_\_\_

EPA ID No. TX \_\_\_\_\_

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

Approx. 0.50 miles southwest of the intersection of Mueschke Rd and Schiel Rd.



HARRIS COUNTY  
M.U.D. 531 WWTP #2  
DISCHARGE PERMIT

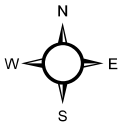
ATTACHMENT 3  
AFFECTED LANDOWNER EXHIBIT FOR  
APPLICANT BOUNDARY

JUNE 2023

LEGEND

- POINT OF DISCHARGE
- DISCHARGE ROUTE
- 150' BUFFER ZONE
- WWTP SERVICE AREA
- WWTP SITE BOUNDARY
- AFFECTED HOMEOWNERS
- PARCEL

DATA SOURCE: PARCEL - HARRIS COUNTY APPRAISAL DISTRICT  
(AUGUST 2022)



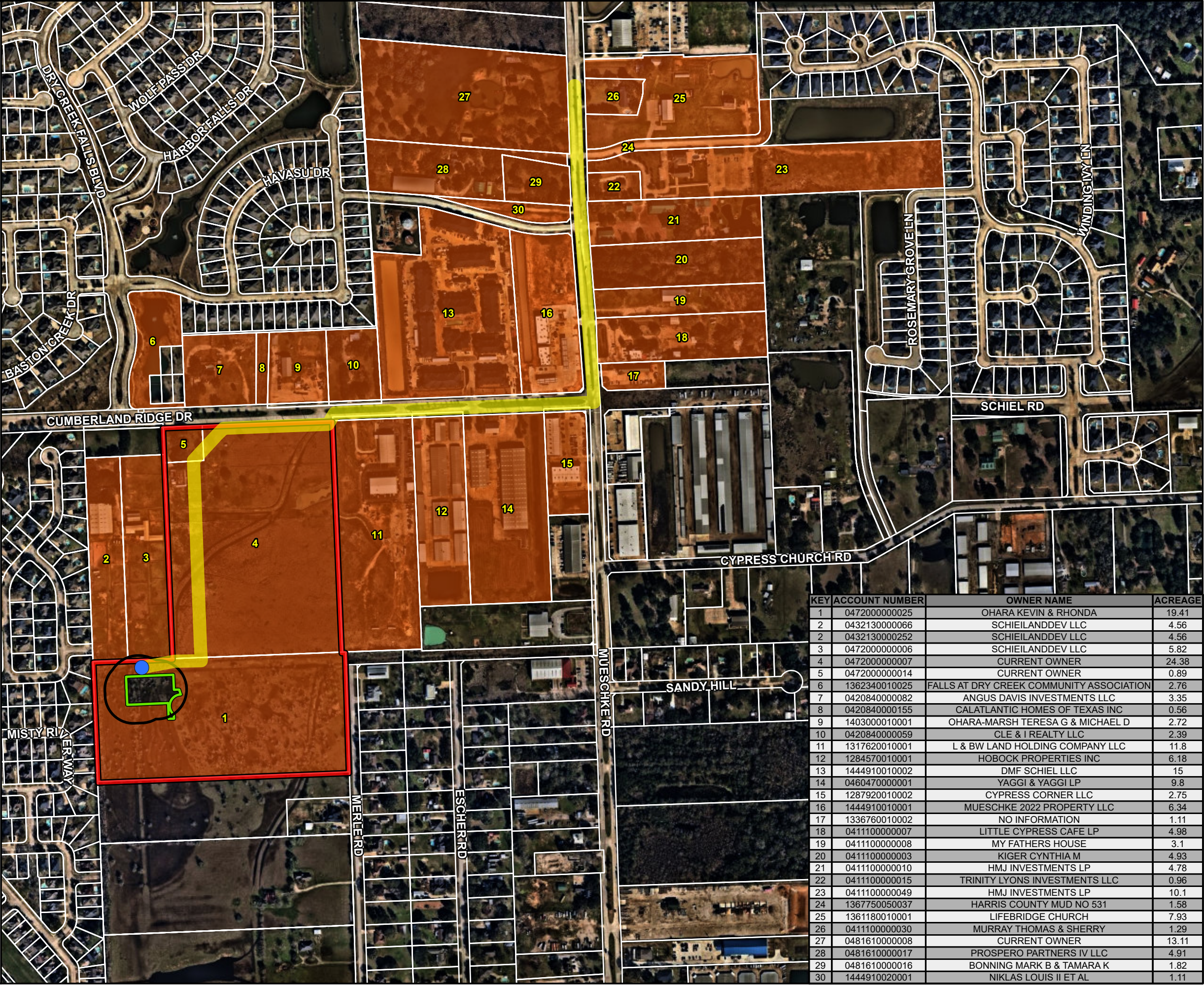
0 500 1,000  
FEET

AERIAL PHOTOGRAPH DATE: NEARMAP 2023

THIS PRODUCT IS FOR INFORMATIONAL PURPOSES AND MAY NOT  
HAVE BEEN PREPARED FOR OR BE SUITABLE FOR LEGAL,  
ENGINEERING, OR SURVEYING PURPOSES. IT DOES NOT  
REPRESENT AN ON-THE-GROUND SURVEY AND REPRESENTS ONLY  
THE APPROXIMATE RELATIVE LOCATION OF PROPERTY  
BOUNDARIES.

**LJA**  
ENGINEERING

3600 W Sam Houston Parkway S, Suite 600  
Houston, Texas 77042  
Phone 713.953.5200 TBPE F-1386  
LJA.com





KEY	OWNER NAME	OWNER ADDRESS 1	OWNER ADDRESS 3
1	OHARA KEVIN & RHONDA	15855 MUESCHKE RD	CYPRESS, TX 77433-1465
2	SCHIEILANDDEV LLC	18518 MUESCHKE RD	CYPRESS, TX 77433
2	SCHIEILANDDEV LLC	18518 MUESCHKE RD	CYPRESS, TX 77433
3	SCHIEILANDDEV LLC	18518 MUESCHKE RD	CYPRESS, TX 77433
4	CURRENT OWNER	20231 SCHIEL RD	CYPRESS, TX 77433-4233
5	CURRENT OWNER	20231 SCHIEL RD	CYPRESS, TX 77433-4233
6	FALLS AT DRY CREEK COMMUNITY ASSOCIATION	17319 SAN PEDRO STE 318	SAN ANTONIO, TX 78232-1443
7	ANGUS DAVIS INVESTMENTS LLC	20228 SCHIEL RD	CYPRESS, TX 77433-4226
8	CALATLANTIC HOMES OF TEXAS INC	681 GREENS PKY STE 220	HOUSTON, TX 77067-4544
9	OHARA-MARSH TERESA G & MICHAEL D	20204 SCHIEL RD	CYPRESS, TX 77433-4226
10	CLE & I REALTY LLC	13523 HARGRAVE RD	HOUSTON, TX 77070-3829
11	L & BW LAND HOLDING COMPANY LLC	24011 RUSTLING OAKS	MAGNOLIA, TX 77355-3720
12	HOBOK PROPERTIES INC	2722 QUINCANNON LN	HOUSTON, TX 77043-1604
13	DMF SCHIEL LLC	2253 N LOOP 336 W STE C	CONROE, TX 77304-3630
14	YAGGI & YAGGI LP	20101 SCHIEL RD	CYPRESS, TX 77433-4234
15	CYPRESS CORNER LLC	16331 DEXTER POINT DR	CYPRESS, TX 77429-8030
16	MUESCHKE 2022 PROPERTY LLC	21021 SPRING BROOK PLAZA DR STE 215	SPRING, TX 77379-5340
17	NO INFORMATION		
18	LITTLE CYPRESS CAFE LP	8423 WESTVIEW DR	HOUSTON, TX 77055-4801
19	MY FATHERS HOUSE	16420 MUESCHKE RD	CYPRESS, TX 77433-1403
20	KIGER CYNTHIA M	16530 MUESCHKE RD	CYPRESS, TX 77433-1486
21	HMJ INVESTMENTS LP	16536 MUESCHKE RD	SPRING, TX 77379-
22	TRINITY LYONS INVESTMENTS LLC	16602 MUESCHKE RD	CYPRESS, TX 77433-1487
23	HMJ INVESTMENTS LP	16536 MUESCHKE RD	CYPRESS, TX 77433-1486
24	HARRIS COUNTY MUD NO 531	PO BOX 1368	FRIENDSWOOD, TX 77549-1368
25	LIFEBRIDGE CHURCH	PO BOX 2390	CYPRESS, TX 77410-2390
26	MURRAY THOMAS & SHERRY	16610 MUESCHKE RD	CYPRESS, TX 77433-1487
27	CURRENT OWNER	615 NORTH LOOP EAST STE 200	HOUSTON, TX 77022-5934
28	PROSPERO PARTNERS IV LLC	16615 MUESCHKE RD	CYPRESS, TX 77433-1493
29	BONNING MARK B & TAMARA K	16607 MUESCHKE RD	CYPRESS, TX 77433-1493
30	NIKLAS LOUIS II ET AL	11907 WINDFERN	HOUSTON, TX 77064-3200

**SPECIAL WARRANTY DEED  
(0.894 Acre - Wastewater Treatment Plant)**

**NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OR ALL OF THE FOLLOWING INFORMATION FROM ANY INSTRUMENT THAT TRANSFERS AN INTEREST IN REAL PROPERTY BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER**

**THE STATE OF TEXAS           §  
  §       KNOW ALL BY THESE PRESENTS:  
COUNTY OF HARRIS         §**

THAT AHV SCHIEL BFR OWNER, LLC, a Delaware limited liability company ("Grantor"), for and in consideration of the sum of Ten and No/100 Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, has GRANTED, BARGAINED, SOLD and CONVEYED, and by these presents does GRANT, BARGAIN, SELL and CONVEY unto **HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 531**, a political subdivision of the State of Texas, its successors and assigns ("Grantee"), all of that certain tract of real property situated in Harris County, Texas, containing 0.894 acre, as more particularly described in **Exhibit A** and shown on **Exhibit B**, both attached hereto and incorporated herein for all purposes, together with all rights, titles, and interests appurtenant thereto and any and all improvements situated thereon (collectively, the "Property").

This Special Warranty Deed and the conveyance hereinabove set forth are executed by Grantor and accepted by Grantee subject to the terms, conditions and provisions hereof and further subject to all easements, conditions, restrictions, covenants, mineral or royalty interests, mineral reservations, surface waivers, utility conveyances, liens, encumbrances, regulations or orders of municipal and/or other governmental authorities, if any, or other matters of record in Harris County, Texas, to the extent the same are validly existing and applicable to the Property (collectively, the "Permitted Encumbrances").

TO HAVE AND TO HOLD the Property, together with all and singular the rights and appurtenances thereunto in anywise belonging, unto Grantee, its successors and assigns, forever, and Grantor does hereby bind itself, its successors and assigns, to WARRANT AND FOREVER DEFEND, all and singular the title to the Property unto Grantee, its successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof by, through, or under Grantor, but not otherwise, subject only to the Permitted Encumbrances.

RP-2023-191426

Grantee's address is c/o Allen Boone Humphries Robinson LLP, 3200 Southwest Freeway, Suite 2600, Houston, Texas 77027.

*[Signature pages follow this page.]*

RP-2023-191426



EXECUTED this 20<sup>th</sup> day of April, 2023.

**GRANTOR:**

AHV SCHIEL BFR OWNER, LLC,  
a Delaware limited liability company

By: 

Name: Michael Seiden

Title: Authorized Signatory

**ACKNOWLEDGEMENT**

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA

§

COUNTY OF Orange

§

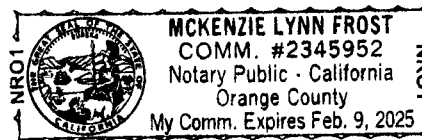
§

On April 20, 2023, before me, McKenzie Frost, Notary Public  
(insert name and title of officer), personally appeared Michael Seiden, Authorized Signatory, who proved to me on the basis of satisfactory evidence to be the person whose name is/are subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument, the person or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature 



(Seal)

EXECUTED by Grantee on the date set forth in the acknowledgment below, but AGREED to, ACCEPTED, and EFFECTIVE as of the date executed by Grantor.

**GRANTEE:**

**HARRIS COUNTY MUNICIPAL  
UTILITY DISTRICT NO. 531**

By: Paul White  
Name: PAUL R. White  
Title: President

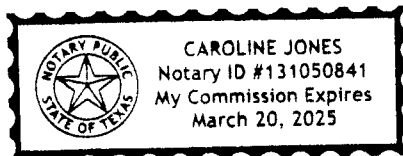
**ATTEST:**

By: Brad Wojcik  
Name: BRAD WOJCIK  
Title: SECRETARY

THE STATE OF TEXAS           §  
   §  
COUNTY OF Harris           §

This instrument was acknowledged before me on the 20<sup>th</sup> day of April, 2023, by Paul White, President, and Brad Wojcik, Secretary of the Board of Directors of HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 531, a political subdivision of the State of Texas, on behalf of said political subdivision.

(NOTARY SEAL)



Caroline Jones  
Notary Public, State of Texas

RP-2023-191426

**Attachments:**

Exhibit A – Description of the Property

Exhibit B – Sketch of the Property

**After recording, please return to:**

Allen Boone Humphries Robinson LLP

3200 Southwest Freeway, Suite 2600

Houston, Texas 77027

Attention: Real Estate Department

RP-2023-191426



DESCRIPTION OF  
0.894 ACRE (38,956 SQUARE FEET)  
WASTE WATER TREATMENT PLANT

Being a 0.894 acre (38,956 square feet) tract of land out of the J.W. Moody Survey, Abstract 547, and the Daniel Schiel Survey, Abstract 1428, Harris County, Texas, more particular being a portion of that certain called 19.378 acre tract conveyed to AHV Schiel BFR Owner, LLC, by instrument of record in File Number RP-2022-607301, of the Official Public Records of Real Property, Harris County, Texas (H.C.O.P.R.R.P.), said 0.894 acre (38,956 square feet) being more particularly described by metes and bounds as follows: (Bearings based on the Texas State Plane Coordinate System, South Central Zone, 4204).

COMMENCING for reference at an axle found marking the northwest corner of said 19.378 acres, same being the southwest corner of that certain called 11.784 acre tract conveyed to 20239 Schiel, LLC, by instrument of record in File Number 20130602917, H.C.O.P.R.R.P, same being on the east line of Trails of Fairfield Section Six, a subdivision of record at Film Code No. 435136 of the Map Records of said Harris County (H.C.M.R.);

Thence, North 87° 49' 49" East, along the north line of said 19.378 acres and the south line of said 11.784 acres, 419.60 feet a 5/8-inch iron rod found marking the southeast corner of said 11.784 acres and the southwest corner of that certain called 25.132 acre tract conveyed to AHV Schiel BFR Owner, LLC, by instrument of record in File Number RP-2022-596619, H.C.O.P.R.R.P.;

Thence, South 02° 24' 27" East, departing the north line of said 19.378 acres, 80.53 feet to the POINT OF BEGINNING of the herein described tract;

Thence, South 02° 24' 27" East, 79.61 feet to a point for corner;

Thence, North 87° 44' 54" East, 27.51 feet to a point for corner;

Thence, South 18° 45' 40" East, 27.18 feet to a point for corner, the beginning of a curve;

0.894 acre

Job No. 2568-2005

Thence, 146.05 feet along the arc of a non-tangent curve to the left, having a radius of 60.00 feet, a central angle of  $139^{\circ} 28' 06''$ , and a chord which bears South  $18^{\circ} 56' 00''$  West, 112.57 feet to a point for corner;

Thence, South  $02^{\circ} 15' 11''$  East, 21.28 feet to a point for corner;

Thence, South  $87^{\circ} 44' 54''$  West, 28.27 feet to a point for corner;

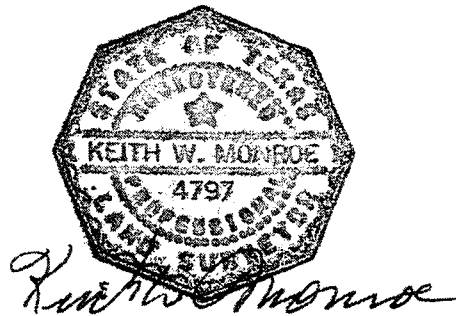
Thence, North  $02^{\circ} 15' 06''$  West, 83.42 feet to a point for corner;

Thence, South  $87^{\circ} 33' 43''$  West, 216.05 feet to a point for corner;

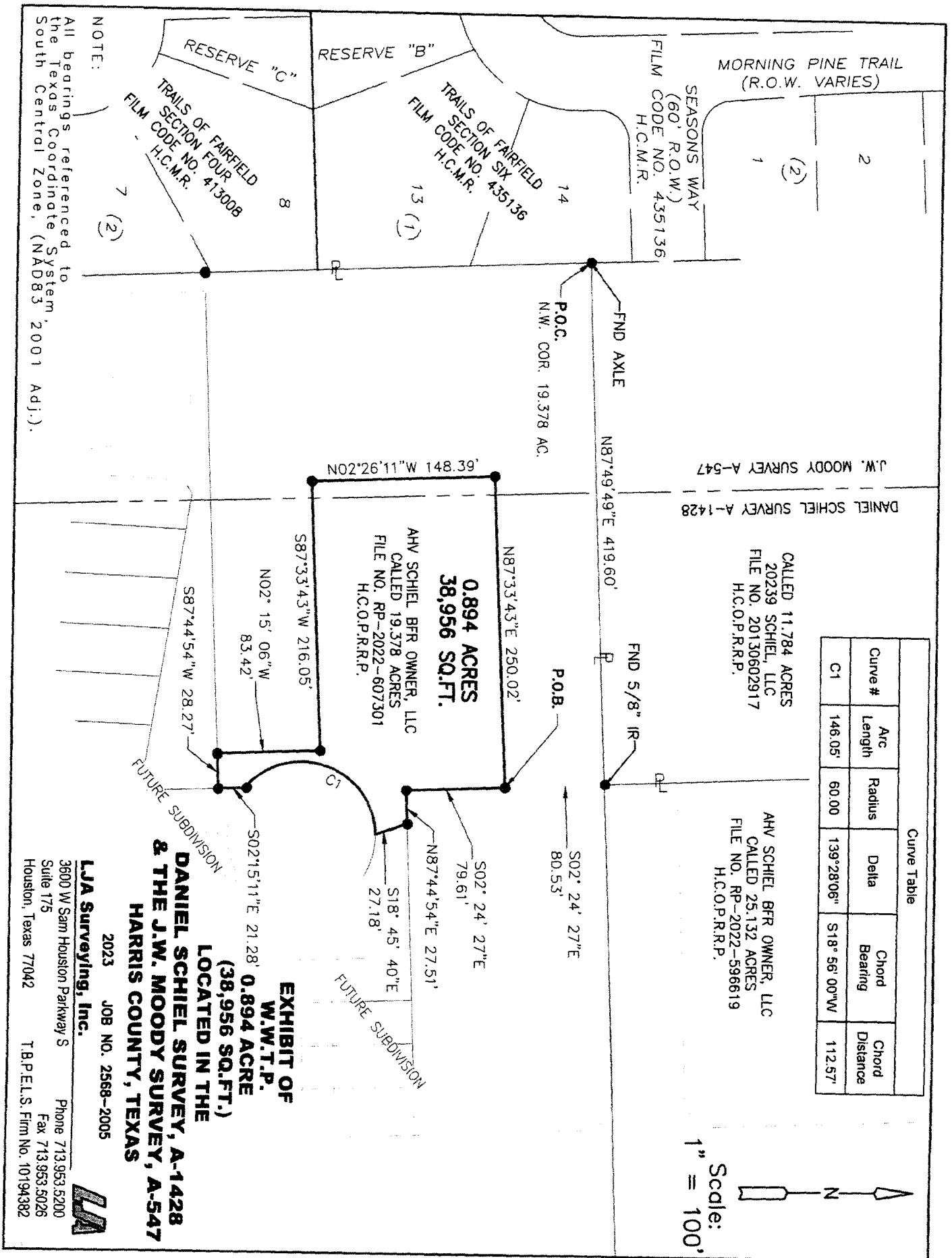
Thence, North  $02^{\circ} 26' 11''$  West, 148.39 feet to a point for corner;

Thence, North  $87^{\circ} 33' 43''$  East, 250.02 feet to the POINT OF BEGINNING and containing 0.894 acre (38,956 square feet) of land.

Corner monuments were not set at the client's request.



LJA Surveying, Inc





RP-2023-191426  
# Pages 9  
05/25/2023 10:02 AM  
e-Filed & e-Recorded in the  
Official Public Records of  
HARRIS COUNTY  
TENESHIA HUDSPETH  
COUNTY CLERK  
Fees \$46.00

RECORDERS MEMORANDUM

This instrument was received and recorded electronically  
and any blackouts, additions or changes were present  
at the time the instrument was filed and recorded.

Any provision herein which restricts the sale, rental, or  
use of the described real property because of color or  
race is invalid and unenforceable under federal law.  
THE STATE OF TEXAS  
COUNTY OF HARRIS

I hereby certify that this instrument was FILED in  
File Number Sequence on the date and at the time stamped  
hereon by me; and was duly RECORDED in the Official  
Public Records of Real Property of Harris County, Texas.



*Teneshia Hudspeth*  
COUNTY CLERK  
HARRIS COUNTY, TEXAS

## Sarah Velez

---

**From:** Sarah Velez  
**Sent:** Tuesday, June 27, 2023 8:45 AM  
**To:** Michelle Labrie  
**Subject:** RE: 16334-001 - Discharge route info

Good Morning Michelle,

Sorry for the delayed response. Both ponds are dry and 100yr WSEL area are:

- POND 1: 1.59 AC
- POND 2: 6.10 AC

Thank you!

**Sarah Velez, PE**  
Assistant Project Manager

**LJA Engineering** | We seek solutions.

• 3600 W Sam Houston Parkway S, Suite 600, Houston, TX 77042  
D: 713.341.8093  
[www.lja.com](http://www.lja.com)  
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---

**From:** Michelle Labrie <Michelle.Labrie@tceq.texas.gov>  
**Sent:** Monday, June 26, 2023 3:36 PM  
**To:** Sarah Velez <svelez@lja.com>  
**Subject:** RE: 16334-001 - Discharge route info

[EXTERNAL EMAIL]

Good afternoon Sarah,

Just touching base on this. Please feel free to give me a call with any questions.

Thank you!



Michelle S. Labrie

TCEQ Water Quality Division  
[Michelle.Labrie@tceq.texas.gov](mailto:Michelle.Labrie@tceq.texas.gov)  
Phone: 512.239.4535

---

**From:** Michelle Labrie  
**Sent:** Thursday, June 22, 2023 4:00 PM  
**To:** Sarah Velez <[svelez@lja.com](mailto:svelez@lja.com)>  
**Subject:** RE: 16334-001 - Discharge route info

Good afternoon Sarah,

Thank you so much for that information you previously sent, that was very helpful. I have two additional questions for you that have come up.

1. What is the proposed/estimated surface area of each of the detention ponds?
2. And will they be designed to have a wet or dry bottom?

Thank you,  
Michelle

---

**From:** Sarah Velez <[svelez@lja.com](mailto:svelez@lja.com)>  
**Sent:** Thursday, May 11, 2023 3:07 PM  
**To:** Michelle Labrie <[Michelle.Labrie@tceq.texas.gov](mailto:Michelle.Labrie@tceq.texas.gov)>  
**Cc:** Ashley Broughton <[abroughton@lja.com](mailto:abroughton@lja.com)>  
**Subject:** RE: 16334-001 - Discharge route info

Good afternoon Michelle,

Please see attached revised exhibits. The discharge point is now north of the site due to added detention. The discharge goes from the chlorine contact basin to the storm sewer into Detention pond No.1 then through storm sewer into Detention pond No. 2 then to the Schiel Road storm sewer. Please see Attachments 7 and 11 for more information.

Please let me know if there is anything else you may need.

Thank you,

**Sarah Velez, PE**  
Assistant Project Manager

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D: 713.341.8093  
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---

**From:** Michelle Labrie <[Michelle.Labrie@tceq.texas.gov](mailto:Michelle.Labrie@tceq.texas.gov)>  
**Sent:** Thursday, May 4, 2023 4:18 PM  
**To:** Sarah Velez <[svelez@lja.com](mailto:svelez@lja.com)>  
**Subject:** RE: 16334-001 - Discharge route info

[EXTERNAL EMAIL]

Thanks Sarah, yes that sounds good!



---

**From:** Sarah Velez <[svelez@lja.com](mailto:svelez@lja.com)>  
**Sent:** Thursday, May 4, 2023 4:07 PM  
**To:** Michelle Labrie <[Michelle.Labrie@tceq.texas.gov](mailto:Michelle.Labrie@tceq.texas.gov)>; Ashley Broughton <[abroughton@lja.com](mailto:abroughton@lja.com)>  
**Subject:** RE: 16334-001 - Discharge route info

Michelle,

I will work on these exhibits and should have something to you by next week, is that okay?

Thank you,

**Sarah Velez, PE**  
Assistant Project Manager

**LJA Engineering |** We seek solutions.

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D: 713.341.8093  
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---

**From:** Michelle Labrie <[Michelle.Labrie@tceq.texas.gov](mailto:Michelle.Labrie@tceq.texas.gov)>  
**Sent:** Thursday, May 4, 2023 3:30 PM  
**To:** Ashley Broughton <[abroughton@lja.com](mailto:abroughton@lja.com)>; Sarah Velez <[svelez@lja.com](mailto:svelez@lja.com)>  
**Subject:** 16334-001 - Discharge route info

[EXTERNAL EMAIL]

Good afternoon,

I'm reviewing the discharge route for 16334-001 and will need some additional info to complete my review. Could you submit a map with the depiction of the proposed detention ponds? Additionally, could you mark where the discharge will be entering the storm sewer and where it will be exiting? Please let me know if you have any questions.

Thanks,  
Michelle

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[EXTERNAL EMAIL] Exercise caution. Do not open attachments or click links from unknown senders or unexpected email

[EXTERNAL EMAIL] Exercise caution. Do not open attachments or click links from unknown senders or unexpected email

## Sarah Velez

---

**From:** Sarah Velez  
**Sent:** Monday, July 17, 2023 1:44 PM  
**To:** Michelle Labrie; Ashley Broughton  
**Subject:** RE: 16334-001, Follow up questions on discharge route  
**Attachments:** Schiel Road\_Mueschke.pdf

Good afternoon Michelle,

Please see attached plan and profile showing the storm sewer from Schiel Road going north on Mueschke Road. We are still looking into the location of the Spring Creek Outfall.

Thank you,

**Sarah Velez, PE**  
Assistant Project Manager

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D: 713.341.8093

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---

**From:** Michelle Labrie <Michelle.Labrie@tceq.texas.gov>  
**Sent:** Tuesday, July 11, 2023 12:12 PM  
**To:** Sarah Velez <svelez@lja.com>; Ashley Broughton <abroughton@lja.com>  
**Subject:** 16334-001, Follow up questions on discharge route

[EXTERNAL EMAIL]

Good afternoon,

I have a couple follow up questions regarding the discharge route.

1. Can you please provide more information to support that the flow, once entering Schiel Road storm sewer, would flow to the NE and to Little Cypress Creek first (versus SE to Cypress Creek). Looks close to the top of the hill/watershed divide; so, it looks like it could go either way. And a the nearest ditch, just west of the outfall, appears to flow south to Dry Creek, then Cypress Creek.

I couldn't find anything in the application or on aerials to tell for sure. Was this or could this be verified in person?

2. Can you provide some supporting information of how you determined that storm sewer route, to be sure it doesn't come above ground before entering Little Cypress Creek, over 1.2 km away. As that is a pretty long distance for an underground storm sewer in a relatively undeveloped area.

Please let me know if you would like to have a call to discuss. Thank you for your assistance.



Michelle S. Labrie

TCEQ Water Quality Division

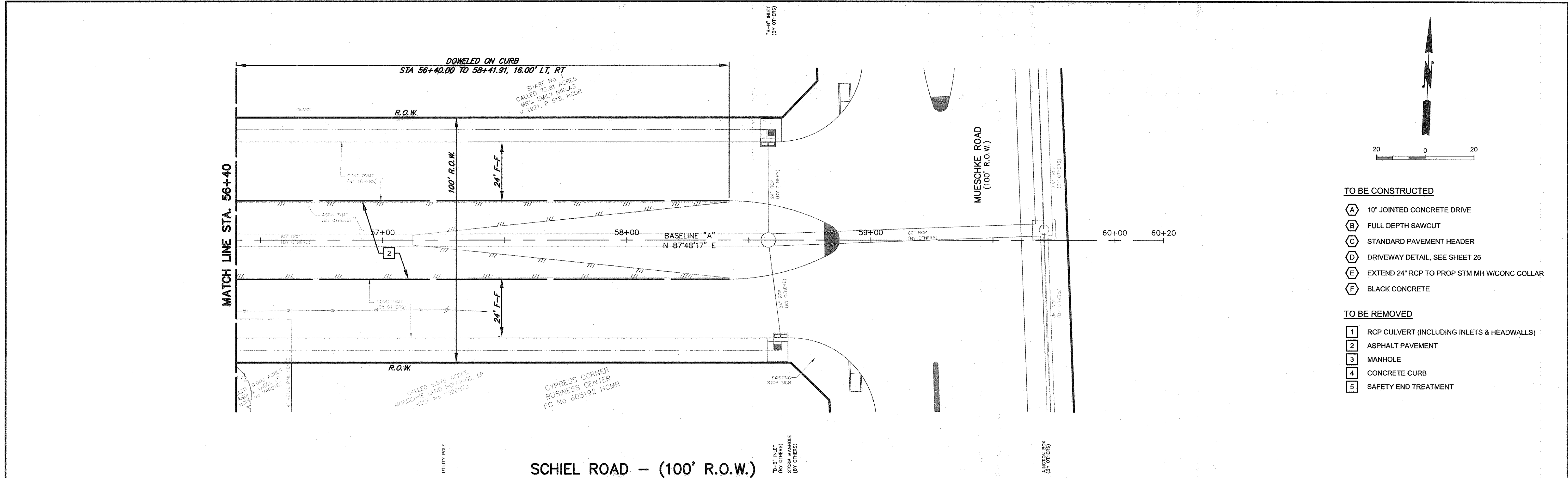
[Michelle.Labrie@tceq.texas.gov](mailto:Michelle.Labrie@tceq.texas.gov)

Phone: 512.239.4535

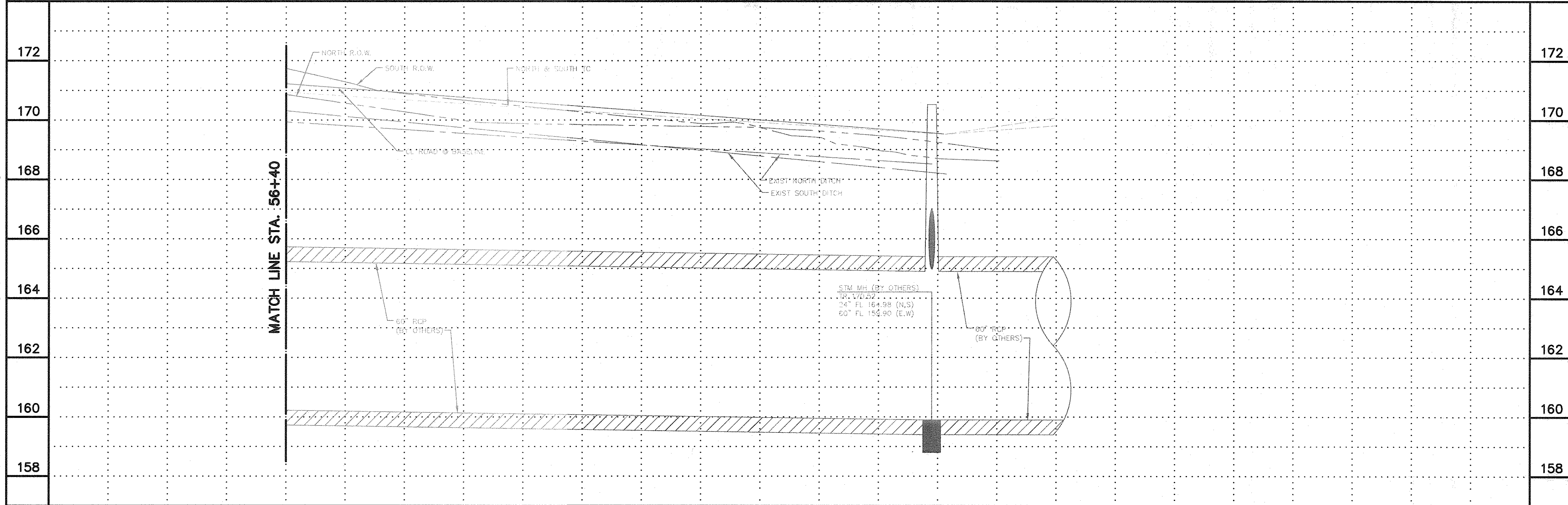
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15 Apr 2011 5:46PM, Terra Associates, Inc., ggerardo  
F: Clients\6760-Harris County\Drawings\20-PP-Schiel 9.dwg



- TO BE CONSTRUCTED**
- (A) 10\"/>
- TO BE REMOVED**
- (1) RCP CULVERT (INCLUDING INLETS & HEADWALLS)
  - (2) ASPHALT PAVEMENT
  - (3) MANHOLE
  - (4) CONCRETE CURB
  - (5) SAFETY END TREATMENT



BY OTHERS NOTE REFERS TO PROJECT  
"MUESCHKE ROAD IMPROVEMENTS, PREPARED  
BY CivilTech ENGINEERING, INC." & SHOULD BE  
CONSTRUCTED PRIOR TO COMMENCEMENT OF  
THIS PROJECT.

**REFERENCE BENCHMARK:**  
Floodplain Reference Mark Number 110995—  
An ALUM ROD Stamped 110995 at 21346 Schiel Road located in ground, 25  
feet north of road and 6.5 feet west of dirt drive in the Cypress Watershed  
near stream L100-00-00.  
ELEVATION = 193.28 Feet NAVD 1988, 2001 Adjusted

**TEMPORARY BENCHMARK:**  
TBM No. 50:  
RR Spike in a utility pole on the south side of Schiel Road +/- 3000' west  
of Mueschke Road.  
Sta 8+85.49 47.22 Rt, ELEVATION = 180.58 Feet

**FLOODPLAIN INFORMATION:**  
These tracts lie in Zone "X" (unshaded), designated as "Areas outside the  
0.2% annual chance floodplain", as per the National Flood Insurance Program  
FIRM for Harris County, Texas, Community No. 480287, Panel Number  
48201C0215L, latest available published revision dated June 18, 2007.

**RECORD DRAWING**

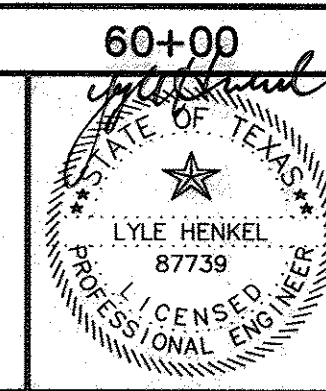
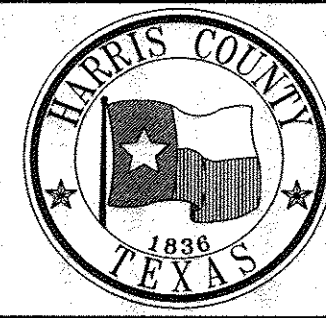
**EXISTING STANDARD PROFILE LEGEND**

CENTER LINE OF R.O.W.	_____
R.O.W. LINE N & E	_____
R.O.W. LINE S & W	_____
DITCH OR CURB LINE N & E	_____
DITCH OR CURB LINE S & W	_____

**TERRA ASSOCIATES, INC.** CONSULTING ENGINEERS  
1445 NORTH LOOP WEST, SUITE 450  
HOUSTON, TEXAS 77008  
PHONE: 713-993-0333  
FAX: 713-993-0743  
TBPE Registration No.: F-003832

NO.	REVISIONS	DATE	NAME

HARRIS COUNTY  
PUBLIC INFRASTRUCTURE DEPARTMENT  
ARCHITECTURE AND ENGINEERING DIVISION



THE SEAL APPEARING ON THIS  
DOCUMENT WAS AUTHORIZED BY  
LYLE HENKEL, P.E. 87739  
ON 4/18/2011

PROJECT TITLE:	SCHIEL ROAD PAVEMENT IMPROVEMENTS		
DRAWN BY:	SHEET DESCRIPTION:	JOB NO:	
GG	SCHIEL ROAD	6760-0901	
CK'D BY:	FILE NAME:	20-PP-SCHIEL 9	
KBP	FILE NO:		
SCALE:	STA. 56+40 TO END		
1"=20'H, 1"=2'V			
DATE:	APPROVED BY:	SHT NO:	
APRIL 2011		20 / 77	

## Sarah Velez

---

**From:** Sarah Velez  
**Sent:** Wednesday, July 26, 2023 2:15 PM  
**To:** Michelle Labrie  
**Cc:** Ashley Broughton  
**Subject:** FW: 16334-001, Follow up questions on discharge route

Good afternoon Michelle,

Please see blow responses to your questions.

1. Can you please provide more information to support that the flow, once entering Schiel Road storm sewer, would flow to the NE and to Little Cypress Creek first (versus SE to Cypress Creek). Looks close to the top of the hill/watershed divide; so, it looks like it could go either way. And the nearest ditch, just west of the outfall, appears to flow south to Dry Creek, then Cypress Creek.

I couldn't find anything in the application or on aerials to tell for sure. Was this or could this be verified in person?

Can you provide some supporting information of how you determined that storm sewer route, to be sure it doesn't come above ground before entering Little Cypress Creek, over 1.2 km away. As that is a pretty long distance for an underground storm sewer in a relatively undeveloped area.

**The previously sent plan and profile shows the storm sewer from Schiel Road going north on Mueschke Road to Little Cypress Creek. We were able to confirm in person that there is an outfall from the storm sewer on Mueschke Road into a dry bottom pond with a pilot channel, then Little Cypress Creek .**

2. The point the effluent enters the storm sewer  
**(30.0125°, -95.7311°)**
3. The point the effluent exits the storm sewer (presumably on Little Cypress Creek)  
**The coordinates of the point where the effluent leaves the storm sewer an enters the dry bottom pond (30.0186°, -95.7248°)**  
**The coordinates of the point where the effluent leaves the pond (30.0203°, -95.7238°)**

Please let me know if you need additional information.

Thank you,

**Sarah Velez PE**  
D: 713.341.8093

---

**From:** Michelle Labrie <[Michelle.Labrie@tceq.texas.gov](mailto:Michelle.Labrie@tceq.texas.gov)>  
**Sent:** Thursday, July 20, 2023 11:55 AM  
**To:** Sarah Velez <[svelez@lja.com](mailto:svelez@lja.com)>; Ashley Broughton <[abroughton@lja.com](mailto:abroughton@lja.com)>  
**Subject:** RE: 16334-001, Follow up questions on discharge route

Sarah,

Thank you for sending the engineering specs. In addition, could you please send the latitude/longitude for:

1. The point the effluent enters the storm sewer and;
2. The point the effluent exits the storm sewer (presumably on Little Cypress Creek)

Once I have this information I will be able to accurately describe the discharge route so it can continue through the rest of the water quality assessment portion.

I had forgotten to originally give you the NOD deadline, so could you please respond with this information by next Wednesday 7/26.

If you need more time or need please let me know.

Lastly, I just wanted to clarify- you described the storm sewer outfall as being on Spring Creek (instead of Little Cypress Creek). I'm assuming this was just a typo but just wanted to double check on that.

Thank you for your assistance,



Michelle S. Labrie

TCEQ Water Quality Division

[Michelle.Labrie@tceq.texas.gov](mailto:Michelle.Labrie@tceq.texas.gov)

Phone: 512.239.4535

---

**From:** Sarah Velez <[svelez@lja.com](mailto:svelez@lja.com)>

**Sent:** Monday, July 17, 2023 1:44 PM

**To:** Michelle Labrie <[Michelle.Labrie@tceq.texas.gov](mailto:Michelle.Labrie@tceq.texas.gov)>; Ashley Broughton <[abroughton@lja.com](mailto:abroughton@lja.com)>

**Subject:** RE: 16334-001, Follow up questions on discharge route

Good afternoon Michelle,

Please see attached plan and profile showing the storm sewer from Schiel Road going north on Mueschke Road. We are still looking into the location of the Spring Creek Outfall.

Thank you,

**Sarah Velez, PE**

Assistant Project Manager

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D: 713.341.8093

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**From:** Michelle Labrie <[Michelle.Labrie@tceq.texas.gov](mailto:Michelle.Labrie@tceq.texas.gov)>  
**Sent:** Tuesday, July 11, 2023 12:12 PM  
**To:** Sarah Velez <[svelez@lja.com](mailto:svelez@lja.com)>; Ashley Broughton <[abroughton@lja.com](mailto:abroughton@lja.com)>  
**Subject:** 16334-001, Follow up questions on discharge route

**[EXTERNAL EMAIL]**

Good afternoon,

I have a couple follow up questions regarding the discharge route.

1. Can you please provide more information to support that the flow, once entering Schiel Road storm sewer, would flow to the NE and to Little Cypress Creek first (versus SE to Cypress Creek). Looks close to the top of the hill/watershed divide; so, it looks like it could go either way. And a the nearest ditch, just west of the outfall, appears to flow south to Dry Creek, then Cypress Creek.

I couldn't find anything in the application or on aerials to tell for sure. Was this or could this be verified in person?

2. Can you provide some supporting information of how you determined that storm sewer route, to be sure it doesn't come above ground before entering Little Cypress Creek, over 1.2 km away. As that is a pretty long distance for an underground storm sewer in a relatively undeveloped area.

Please let me know if you would like to have a call to discuss. Thank you for your assistance.



Michelle S. Labrie

TCEQ Water Quality Division

[Michelle.Labrie@tceq.texas.gov](mailto:Michelle.Labrie@tceq.texas.gov)

Phone: 512.239.4535

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## Sarah Velez

---

**From:** Sarah Velez  
**Sent:** Tuesday, October 17, 2023 5:00 PM  
**To:** James Michalk; Ashley Broughton  
**Subject:** RE: Harris County MUD No. 531 (WQ0016334001)  
**Attachments:** DETENTION POND LAYOUT - STORM WATER QUALITY MANAGEMENT PLAN.pdf

Good afternoon Jim,

Please see attached pond layouts showing the pilot channels for both ponds and their flowlines.

The treated effluent from the WWTP will flow into Pond 1 and then be channeled through the earthen pilot channel into the 60" RCP culverts. The culverts will direct the flow to Pond 2 concrete pilot channel to the 30" RCP outfall.

Please let me know if you need additional information.

Thank you,

**Sarah Velez, PE**  
D: 713.341.8093

---

**From:** James Michalk <james.michalk@tceq.texas.gov>  
**Sent:** Thursday, September 7, 2023 3:47 PM  
**To:** Sarah Velez <svelez@lja.com>; Ashley Broughton <abroughton@lja.com>  
**Subject:** RE: Harris County MUD No. 531 (WQ0016334001)

[EXTERNAL EMAIL]

Ok, thank you Sarah, no problem.

Jim Michalk  
Water Quality Assessment Team

---

**From:** Sarah Velez <[svelez@lja.com](mailto:svelez@lja.com)>  
**Sent:** Thursday, September 7, 2023 3:24 PM  
**To:** James Michalk <[james.michalk@tceq.texas.gov](mailto:james.michalk@tceq.texas.gov)>; Ashley Broughton <[abroughton@lja.com](mailto:abroughton@lja.com)>  
**Subject:** RE: Harris County MUD No. 531 (WQ0016334001)

Good afternoon Jim, we are still working on getting this information to you, apologies for the delay.

Thank you,

**Sarah Velez, PE**  
D: 713.341.8093

---

**From:** James Michalk <[james.michalk@tceq.texas.gov](mailto:james.michalk@tceq.texas.gov)>  
**Sent:** Friday, August 18, 2023 1:32 PM  
**To:** Ashley Broughton <[abroughton@lja.com](mailto:abroughton@lja.com)>; Sarah Velez <[svelez@lja.com](mailto:svelez@lja.com)>  
**Subject:** Harris County MUD No. 531 (WQ0016334001)

[EXTERNAL EMAIL]

Good afternoon Ashley and Sarah,

I know that Michelle Labrie on the Standards Implementation Team has already communicated with you on some of the discharge route details for this proposed new permit, but I have some additional questions for the dissolved oxygen (DO) modeling analysis. Michelle's review information indicates that the first 2 detention ponds (not-yet-constructed) will be dry-bottom, as will the 3<sup>rd</sup> one (which already exists), but only that third one will have a concrete-lined pilot channel to convey flow (such as from the WWTP discharge) through the pond basin during dry-weather conditions.

Will the discharge from the WWTP also flow freely through the first 2 detention pond basins (during dry-weather conditions) along a route that I could just model like a ditch or swale, even without a purpose-built pilot channel, or will the water pool up to some level before draining out of some sort of outlet structure?

If one or both of them would tend to pool up under dry-weather conditions with the wastewater discharge present, what water surface areas and average depths would they get up to before water would exit them?

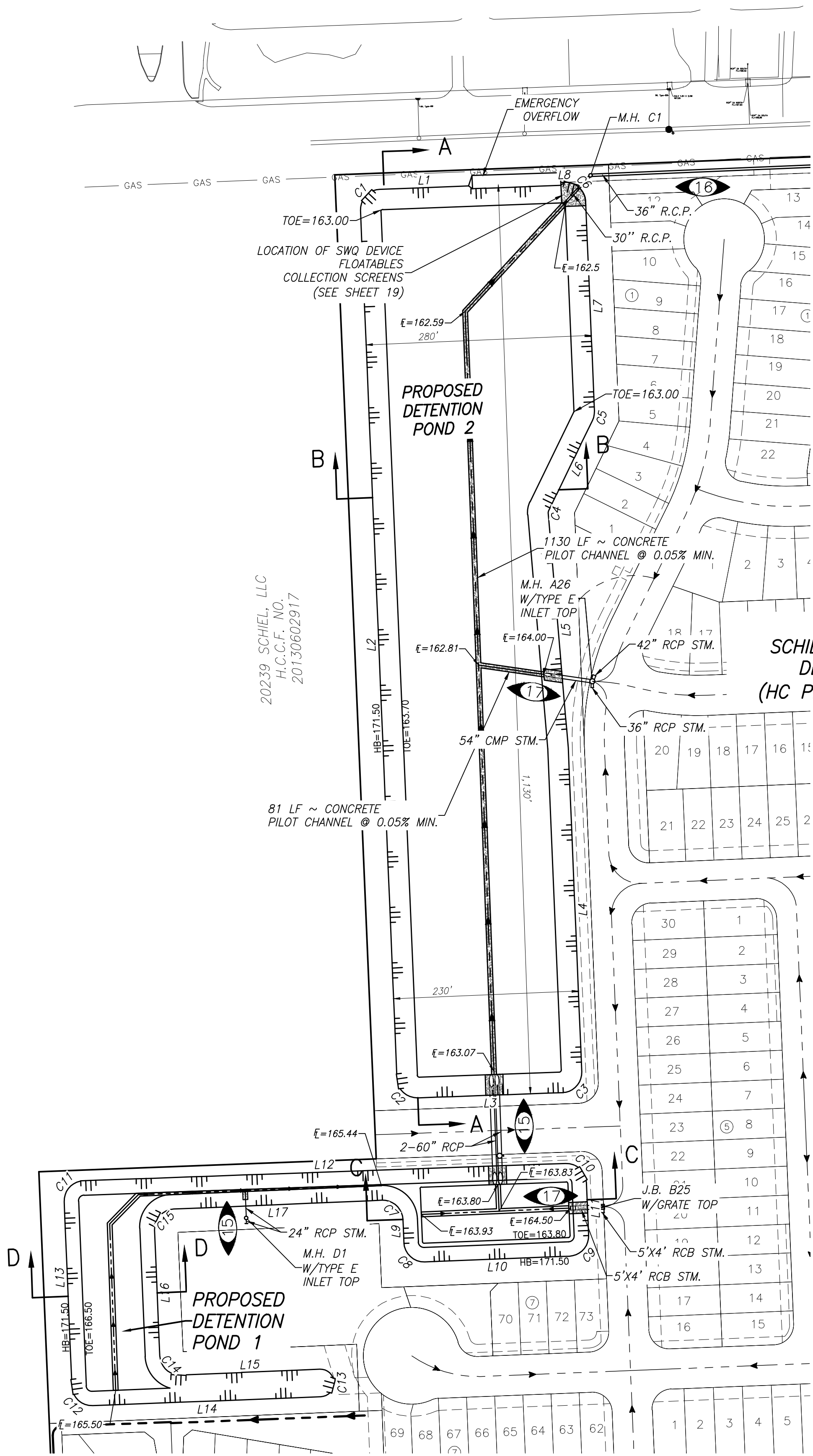
Thank you,

Jim Michalk  
Water Quality Assessment Team

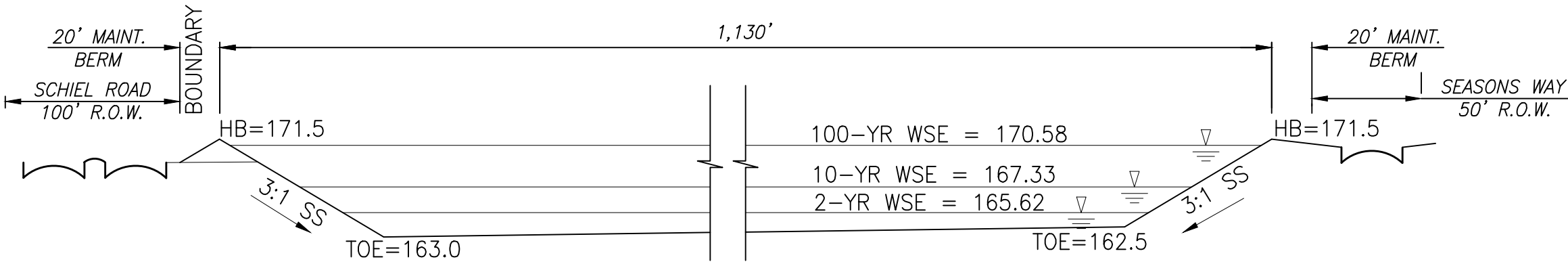
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[EXTERNAL EMAIL] Exercise caution. Do not open attachments or click links from unknown senders or unexpected email



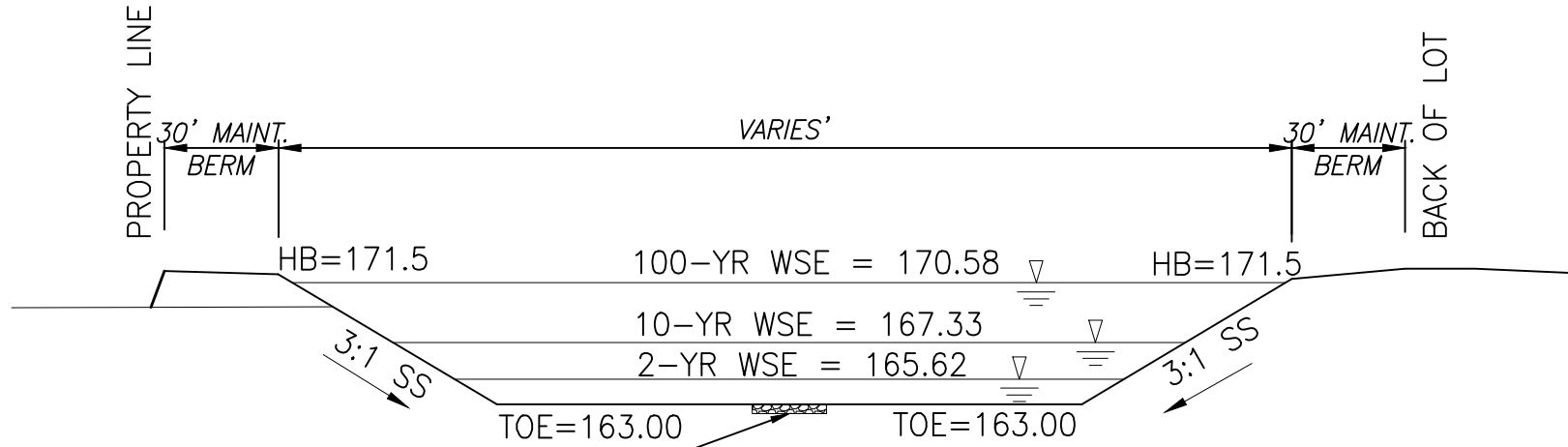


FUTURE  
SCHIEL ROAD TRACT  
DEVELOPMENT  
(HC PRJ 2212010076)



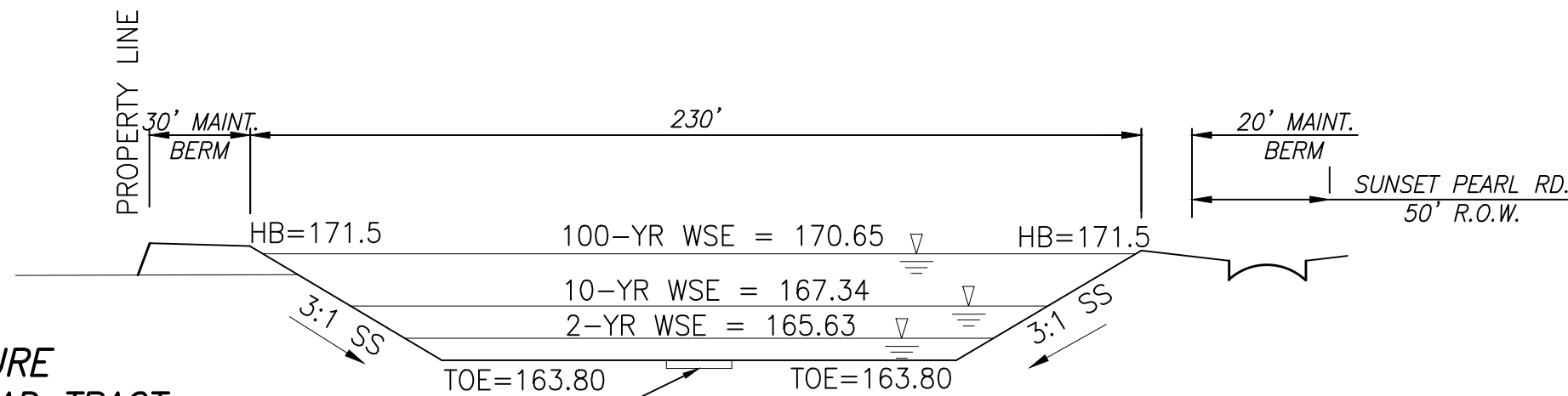
SECTION A-A

N.T.S.



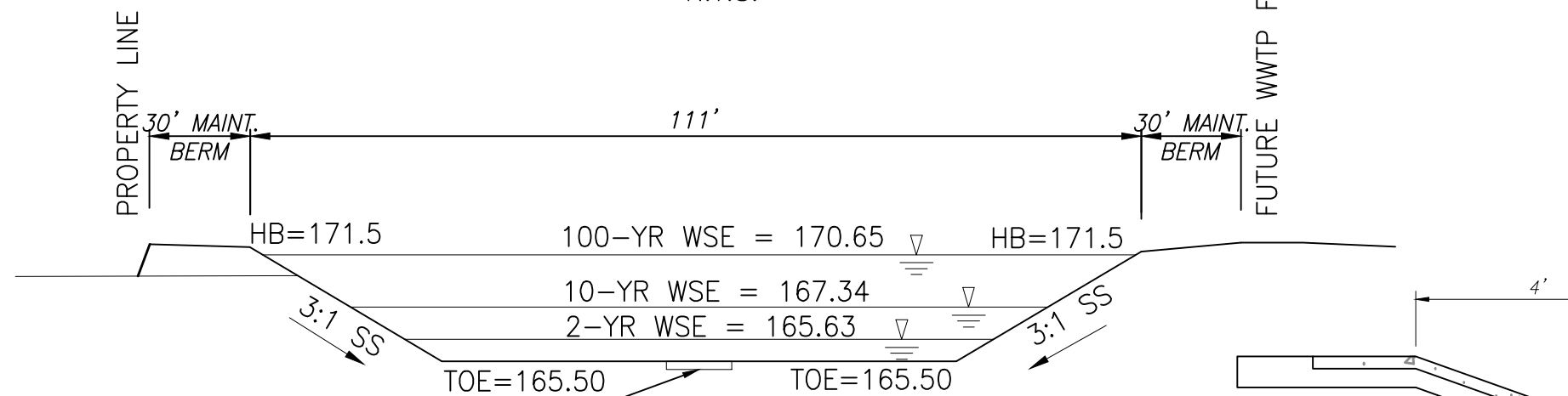
SECTION B-B

N.T.S.



SECTION C-C

N.T.S.



SECTION D-D

N.T.S.

Line Table		
Line #	Length	Direction
L8	0.183	S87° 49' 43.55"W
L7	260.251	N02° 23' 39.53"W
L6	124.684	N25° 54' 50.41"E
L5	292.606	N04° 52' 54.80"W
L4	402.784	N02° 23' 39.53"W
L3	179.816	N87° 56' 38.38"E
L2	1079.586	S02° 24' 26.82"E
L1	110.278	S87° 49' 35.81"W

Line Table		
Line #	Length	Direction
L17	259.026	N87° 33' 42.96"E
L16	156.390	N02° 26' 12.11"W
L15	172.946	S87° 33' 42.96"W
L14	283.488	N87° 44' 54.44"E
L13	229.684	S02° 23' 06.59"E
L12	599.447	S87° 56' 38.48"W
L11	65.337	N02° 23' 39.53"W
L10	179.767	N87° 44' 54.44"E
L9	28.763	S02° 24' 26.82"E

Curve Table							
Curve #	ARC	Radius	Delta	Length	TANGENT	CHORD	CHORD BEARING
C6	39.17	25.000	089.7769	39.173	24.903	35.286	N47° 16' 57.99"W
C5	12.35	25.000	028.3083	12.352	6.305	12.227	N11° 45' 35.44"E
C4	2.86	5.000	032.7485	2.858	1.469	2.819	N09° 32' 23.09"E
C3	39.42	25.000	090.3383	39.418	25.148	35.460	N42° 46' 29.43"E
C2	39.12	25.000	089.6486	39.117	24.847	35.247	S47° 13' 54.22"E
C1	39.37	25.000	090.2362	39.373	25.103	35.428	S42° 42' 38.37"W

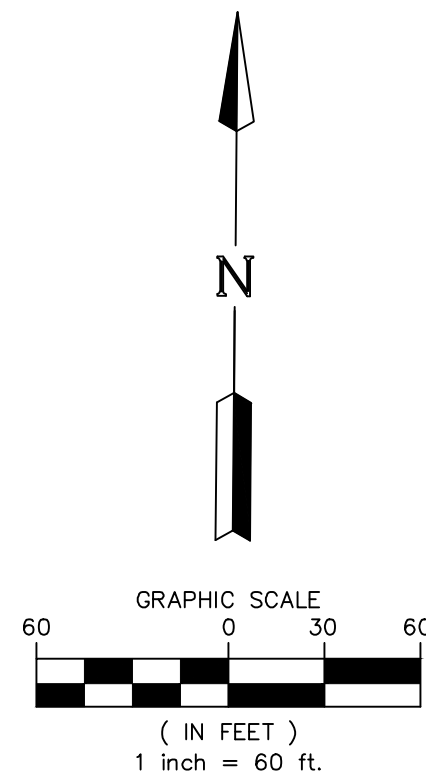
Curve Table							
Curve #	ARC	Radius	Delta	Length	TANGENT	CHORD	CHORD BEARING
C15	39.27	25.000	089.9983	39.269	24.999	35.355	N42° 33' 46.01"E
C14	39.27	25.000	090.0017	39.271	25.001	35.356	N47° 26' 13.99"W
C13	53.82	17.132	179.9998	53.821	8975991.694	34.263	N01° 50' 31.21"W
C12	39.22	25.000	089.8750	39.215	24.946	35.317	S47° 18' 50.60"E
C11	39.41	25.000	090.3292	39.414	25.144	35.457	S42° 46' 45.95"W
C10	39.12	25.000	089.6617	39.122	24.853	35.251	N47° 13' 30.52"W
C9	39.33	25.000	090.1428	39.332	25.062	35.399	N42° 40' 37.46"E
C8	39.20	25.000	089.8441	39.202	24.932	35.307	S47° 19' 46.19"E
C7	39.28	25.000	090.0306	39.283	25.013	35.365	S47° 25' 21.93"E

NOTE:  
DETENTION POND WILL BE MAINTAINED BY  
HARRIS COUNTY M.U.D. NO.531 ONCE IT  
HAS BEEN COMPLETED.

SWQMP PERMIT REQUIREMENTS:

UPON COMPLETION OF CONSTRUCTION THE PERMANENT STORM  
WATER QUALITY FEATURE WILL BE CLEANED OF ALL SEDIMENT  
AND DEBRIS THAT MAY HAVE ACCUMULATED. ADDITIONALLY ALL  
DISTURBED AREAS RELATED TO THIS PROJECT WILL BE  
COMPLETELY STABILIZED. THIS WILL BE DONE PRIOR TO  
SUBMITTING AN "AS-BUILT CERTIFICATE" AND CALLING FOR FINAL  
INSPECTION. HARRIS COUNTY ENGINEERING WILL NOT PASS THE  
FINAL INSPECTION OR ISSUE THE CERTIFICATE OF COMPLIANCE  
UNTIL THE REQUIRED FINAL CLEANOUT AND STABILIZATION HAVE  
BEEN COMPLETED. THE DEVELOPMENT IS NOT APPROVED FOR  
OPERATION UNTIL A CERTIFICATE OF COMPLIANCE HAS BEEN  
ISSUED.

EMERGENCY OVERFLOW WEIR  
N.T.S.



LEGEND



INDICATES SHEET REFERENCE  
NUMBER

BENCHMARK:

HARRIS COUNTY FLOODPLAIN REFERENCE MARK NO. 110975,  
BEING A BRASS DISK LOCATED FROM THE INTERSECTION OF  
US 290, NORTH ALONG MUESCHKE 2.2 MILES TO CYPRESS  
CHURCH, EAST AND THEN NORTH ALONG CYPRESS CHURCH  
0.8 MILES TO SAID BENCHMARK ON LEFT. (NAVD 88, 2001  
ADJ.)  
ELEVATION = 165.10 (NAVD88, 2001 ADJ.)

TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED CALL CENTERPOINT AT 713-297-2222

NOTICE:

FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE  
YOU DIG SO THAT UNDERGROUND LINE CAN BE MARKED. THIS SIGNATURE DOES NOT FULFILL YOUR  
OBLIGATION TO CALL 811.

VERIFICATION OF PRIVATE UTILITY LINES

CenterPoint Energy natural gas utilities shown.

(GAS SERVICE LINES ARE NOT SHOWN). THIS SIGNATURE NOT TO BE USED FOR CONFLICT  
VERIFICATION. SIGNATURE IS VALID FOR SIX MONTHS.

CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY.

(THIS SIGNATURE VERIFIES EXISTING UNDERGROUND FACILITIES - NOT TO BE USED FOR  
CONFLICT VERIFICATION). SIGNATURE IS VALID FOR SIX MONTHS.

DATE:

Approved for AT&T TEXAS/SWB

UNDERGROUND CONDUIT FACILITIES ONLY.  
SIGNATURE VALID FOR ONE YEAR.

APP.	REVISIONS	DATE
1		
2		
3		

**LJA**  
**LJA Engineering, Inc.**  
1904 West Grand Parkway North,  
Suite 100  
Katy, Texas 77042  
Phone 713.953.5200  
Fax 713.953.5026  
FRN - F-1386

THIS DOCUMENT IS ISSUED  
FOR INTERIM REVIEW AND  
IS NOT TO BE USED FOR  
CONSTRUCTION, BIDDING,  
OR PERMITTING PURPOSES.

CHANCE VINKLAREK, P.E.  
TEXAS P.E. #98361

ISSUED ON:  
OCT 13 2023

SCHIEL ROAD TRACT

DETENTION POND LAYOUT -  
STORM WATER QUALITY  
MANAGEMENT PLAN

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY  
AFTER DATE OF SIGNATURES

**CITY OF HOUSTON**  
HOUSTON PUBLIC WORKS

WATER	STORM WATER QUALITY
WASTE WATER	FACILITIES
STORM WATER	TRAFFIC & TRANSPORTATION/ STREET AND BRIDGE
FILE NO:	SCALE: 1"= 60'
SHEET NO. 13 OF 20	DRAWING SCALE

FOR CITY OF HOUSTON USE ONLY

## Sarah Velez

---

**From:** Sarah Velez  
**Sent:** Tuesday, December 19, 2023 12:42 PM  
**To:** John Hearn  
**Cc:** Ashley Broughton  
**Subject:** RE: Harris County MUD No. 531\_WQ0016334001  
**Attachments:** ATTACHMENT 10.2.pdf

Good afternoon John,

Please see my responses in blue to your email below.

What kind of timeline are we looking at for the public meeting? Is it going to be virtual?

Thank you,

**Sarah Velez, PE**  
D: 713.341.8093

---

**From:** John Hearn <John.Hearn@tceq.texas.gov>  
**Sent:** Monday, December 18, 2023 1:21 PM  
**To:** Sarah Velez <svelez@lja.com>  
**Cc:** Ashley Broughton <abroughton@lja.com>  
**Subject:** RE: Harris County MUD No. 531\_WQ0016334001

### [EXTERNAL EMAIL]

Good morning Sarah,

Thank you for the response on this one. The application is currently in technical review. Would you please provide the information outlined below via email **ASAP, but no later than Wednesday, December 20, 2023**, so that the review of the application can proceed in a timely manner.

1. Could you please update me on the regionalization requests. Have any of the other WWTPs responded as of today? [No other responses have been received.](#)
2. **Attachment No. 9, Treatment Units.** For the Final phase, the treatment unit table shows 2 aerobic digesters, whereas on the phase flow diagram for the final phase shows 1 sludge holding basin. Please revise and resubmit **Attachment No. 9 and Attachment 10.2** with corresponding treatment units. [Please see revised Attachment 10.2, Attachment 9 is correct there will always be 2 sludge holding tanks.](#)
3. There has been a public meeting request for this permit application. Are you aware of this? I have drafted a combined public meeting NORI and NAPD for this permit application so that the applicant does not have to publish the NAPD separately and then publish the PM notice. If this is the publishing route you would like to take please respond to this email with your approval. [Yes, we are aware of the public meeting request and yes this is the publishing route we would like to take.](#)

Please do not hesitate to reach out if you have any questions.

Thanks.  
John

---

**From:** Sarah Velez <[svelez@lja.com](mailto:svelez@lja.com)>  
**Sent:** Tuesday, June 6, 2023 5:43 PM  
**To:** John Hearn <[John.Hearn@tceq.texas.gov](mailto:John.Hearn@tceq.texas.gov)>; Ashley Broughton <[abroughton@lja.com](mailto:abroughton@lja.com)>  
**Subject:** RE: Harris County MUD No. 531\_WQ0016334001

Good afternoon,

Please see attached capacity request letters and revised buffer zone map. I've also attached the warranty deed.

Please let me know if you need additional information.

Thank you,

**Sarah Velez, PE**  
Assistant Project Manager

**LJA Engineering** | We seek solutions.

• 3600 W Sam Houston Parkway S, Suite 600, Houston, TX 77042  
D: 713.341.8093  
[www.lja.com](http://www.lja.com)  
[Facebook](#) • [Twitter](#) • [LinkedIn](#)

---

**From:** John Hearn <[John.Hearn@tceq.texas.gov](mailto:John.Hearn@tceq.texas.gov)>  
**Sent:** Saturday, June 3, 2023 2:42 PM  
**To:** Ashley Broughton <[abroughton@lja.com](mailto:abroughton@lja.com)>; Sarah Velez <[svelez@lja.com](mailto:svelez@lja.com)>  
**Subject:** Harris County MUD No. 531\_WQ0016334001

[EXTERNAL EMAIL]

To whom it may concern,

Thank you for the application for the new municipal wastewater permit WQ0016334001 received on April 28, 2023. The application is currently in pre-technical review. Would you please provide the information outlined below **ASAP, but no later than Monday, June 12, 2023**, so that the review of the application can proceed in a timely manner.

1. **Attachment 13, Nearby Domestic Permitted WWTFs.** Out of the 11 listed WWTP, only 4 of the letters were provided. Could you please provide all of the letters that were sent out, even if the WWTPs have not responded as of yet. Also, if any responses come in from the other 7 WWTPs please route their responses to me.
2. **Attachment 7, Buffer Zone Map.** It is listed in the application that some of the buffer zone will be met through restrictive easement. Has this easement been procured yet? Can you please clearly demarcate the applicants property boundary, and which areas of the buffer zone will be met through restrictive easement and **resubmit the revised Buffer zone map.**



Thank you for your time, and please let me know if you have any questions.

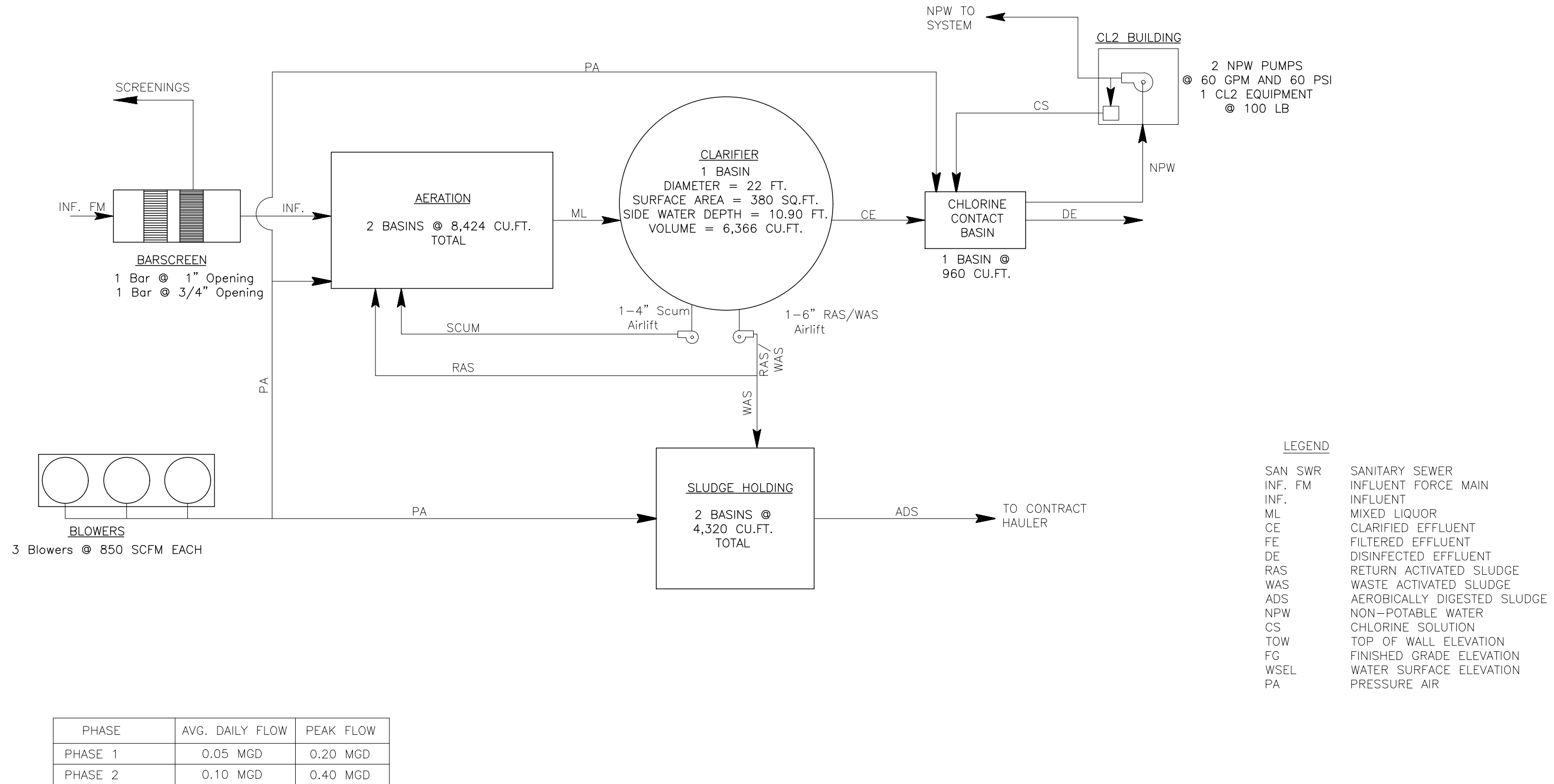
Thanks!

John

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Date\Time : Mon, 18 Dec 2023 - 5:40pm User Name : svelez  
Path\Name : W:\LAND\2568\2005 - HCMUD 531 WwTP 2 Permit\Application\CAD\Process\_Flow\_Diagrams.dwg



ATTACHMENT 10.2  
PROCESS FLOW DIAGRAM  
(ULTIMATE) PHASE 2 - 0.10 MGD

**LJA Engineering, Inc.**

3600 W Sam Houston Parkway S.  
Suite 600  
Houston, Texas 77042

Phone 713.953.5200  
Fax 713.953.5026

FRN - F-1386

HCM\_000194

## Sarah Velez

---

**From:** Sarah Velez  
**Sent:** Wednesday, December 20, 2023 11:22 AM  
**To:** John Hearn  
**Cc:** Ashley Broughton  
**Subject:** RE: Harris County MUD No. 531\_WQ0016334001  
**Attachments:** Revised section 2B.pdf

Good morning John, please see attached.

Thank you,

**Sarah Velez, PE**  
D: 713.341.8093

---

**From:** John Hearn <John.Hearn@tceq.texas.gov>  
**Sent:** Wednesday, December 20, 2023 9:38 AM  
**To:** Sarah Velez <svelez@lja.com>  
**Cc:** Ashley Broughton <abroughton@lja.com>  
**Subject:** RE: Harris County MUD No. 531\_WQ0016334001

### [EXTERNAL EMAIL]

Hello Sarah,

I have received the subject draft permit back from peer review, and one more deficiency was found in the application. Please provide the below item **ASAP, but no later than Friday, December 22, 2023** so that the permitting process can proceed in a timely manner.

1. **Technical Report 1.1, Section 2B.** The total flow is listed as 0.05 MGD, whereas the total flow should be 0.10 MGD, only the loading for 0.05 MGD is given as well. ***Please revise and resubmit Section 2B with the correct total flow and loading.***

Please let me know if you have any questions.

Thanks.  
John

---

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**Sent:** Tuesday, December 19, 2023 2:38 PM  
**To:** Sarah Velez <[svelez@lja.com](mailto:svelez@lja.com)>  
**Cc:** Ashley Broughton <[abroughton@lja.com](mailto:abroughton@lja.com)>  
**Subject:** RE: Harris County MUD No. 531\_WQ0016334001

Hello Sarah,



Thank you for the responses to this email!

This permit has already been drafted, and is currently in peer review. When I receive it back, the draft will be emailed to you/applicant for acceptance/comments. When acceptance is received, I will move the permit to the Chief Clerks Office, and they will assign a Public Meeting place, date and time in the county of the proposed facility. I would assume it will be around two months out from the date I file the Permit with them, so maybe around early to mid March (this is an approximation). The public meeting will be held in person.

Please let me know if you have any further questions in this regard. You can reach me over email or by phone at 512-239-5239.

Thanks!  
John

---

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Good afternoon,

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Please let me know if you need additional information.

Thank you,

**Sarah Velez, PE**  
Assistant Project Manager

**LJA Engineering |** We seek solutions.

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[www.lja.com](http://www.lja.com)  
[Facebook](#) • [Twitter](#) • [LinkedIn](#)

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John

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

**A. Current organic loading**

Facility Design Flow (flow being requested in application):

Average Influent Organic Strength or BOD<sub>5</sub> Concentration in mg/l:

Average Influent Loading (lbs/day = total average flow X average BOD<sub>5</sub> conc. X 8.34):

Provide the source of the average organic strength or BOD<sub>5</sub> concentration.

<input type="text"/>
----------------------

**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 <sub>5</sub> Concentration (mg/l)
Municipality		
Subdivision	0.10	300
Trailer park - transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria,		

Source	Total Average Flow (MGD)	Influent BOD <sub>5</sub> Concentration (mg/l)
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	0.10	
AVERAGE BOD <sub>5</sub> 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: N/A

Dissolved Oxygen, mg/l: 4