

APPLICATION FOR A NEW
TEXAS POLLUTION DISCHARGE ELIMINATION SYSTEM
PERMIT

FOR

**INDIE CATCH
WASTEWATER TREATMENT PLANT**

INDIE CATCH, LLC
5599 SAN FELIPE STREET, SUITE 565
HOUSTON, TEXAS 77056

PREPARED BY:

WATERENGINEERS, INC.
WATER & WASTEWATER TREATMENT CONSULTANTS
17230 HUFFMEISTER ROAD, SUITE A, CYPRESS, TEXAS 77429
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AUGUST 2022

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
**DOMESTIC WASTEWATER PERMIT APPLICATION
 CHECKLIST**

Complete and submit this checklist with the application.

APPLICANT: Indie Catch, LLC

PERMIT NUMBER: New

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"/>
Technical Report 1.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Flow Diagram	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Technical Report 1.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Site Drawing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Worksheet 2.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Original Photographs	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Worksheet 2.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Design Calculations	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Worksheet 3.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Solids Management Plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Worksheet 3.1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Water Balance	<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 type="checkbox"/>	<input checked="" type="checkbox"/>			
Worksheet 7.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>			

For TCEQ Use Only

Segment Number _____ County _____
 Expiration Date _____ Region _____
 Permit Number _____



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
**APPLICATION FOR A DOMESTIC WASTEWATER PERMIT
 ADMINISTRATIVE REPORT 1.0**

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

Section 1. Application Fees (Instructions Page 29)

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

Flow	New/Major Amendment	Renewal
<0.05 MGD	\$350.00 <input type="checkbox"/>	\$315.00 <input checked="" 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 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 checked="" 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: 76
 Check/Money Order Amount: \$1,650.00
 Name Printed on Check: WaterEngineers, Inc.

EPAY Voucher Number: [REDACTED]

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: [REDACTED]

For existing permits:

Permit Number: WQ00New
 EPA I.D. (TPDES only): TXNew

Expiration Date: N/A

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

Indie Catch, LLC

(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: New

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: Rahul Jain

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

Title: Vice President

B. Co-applciant 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-applciant applying for this permit?

N/A

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

If the co-applciant 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: [REDACTED]

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): [REDACTED]

First and Last Name: [REDACTED]

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

Title: [REDACTED]

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

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: Admin.03

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): Ms.

First and Last Name: Shelley Young

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

Title: Engineer

Organization Name: WaterEngineers, Inc.

Mailing Address: 17230 Huffmeister Road, Suite A

City, State, Zip Code: Cypress, Texas 77429

Phone No.: 281-373-0500 Ext.: [REDACTED] Fax No.: 281-373-1113

E-mail Address: syoun@waterengineers.com

Check one or both: Administrative Contact Technical Contact

B. Prefix (Mr., Ms., Miss): [REDACTED]

First and Last Name: [REDACTED]

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

Title: [REDACTED]

Organization Name: [REDACTED]

Mailing Address: [REDACTED]

City, State, Zip Code: [REDACTED]

Phone No.: [REDACTED] Ext.: [REDACTED] Fax No.: [REDACTED]

E-mail Address: [REDACTED]

Check one or both: Administrative Contact Technical Contact

Section 5. Permit Contact Information (Instructions Page 30)

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

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

First and Last Name: Louis Mertz

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

Title: Principal

Organization Name: Indie Catch, LLC

Mailing Address: 5599 San Felipe St., Suite 565

City, State, Zip Code: Houston, Texas 77056

Phone No.: 832-485-1907 Ext.: [REDACTED] Fax No.: [REDACTED]

E-mail Address: lmertz@scipioventures.com

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

First and Last Name: Rahul Jain

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

Title: Vice President

Organization Name: Indie Catch, LLC

Mailing Address: 5599 San Felipe St., Suite 565

City, State, Zip Code: Houston, Texas 77056

Phone No.: 832-548-0960 Ext.: [REDACTED] Fax No.: [REDACTED]

E-mail Address: rjain@scipioventures.com

Section 6. Billing Information (Instructions Page 30)

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

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

First and Last Name: Louis Mertz

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

Title: Principal

Organization Name: Indie Catch, LLC

Mailing Address: 5599 San Felipe St., Suite 565

City, State, Zip Code: Houston, Texas 77056

Phone No.: 832-485-1907 Ext.: [REDACTED] Fax No.: [REDACTED]

E-mail Address: ap@scipioventures.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: Rahul Jain

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

Title: Vice President

Organization Name: Indie Catch, LLC

Mailing Address: 5599 San Felipe St., Suite 565

City, State, Zip Code: Houston, Texas 77056

Phone No.: 832-548-0960 Ext.: [REDACTED] Fax No.: [REDACTED]

E-mail Address: rjain@scipioventures.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): Ms.

First and Last Name: Shelley Young

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

Title: Engineer

Organization Name: WaterEngineers, Inc.

Mailing Address: 17230 Huffmeister Road, Suite A

City, State, Zip Code: Cypress, Texas 77429

Phone No.: 281-373-0500 Ext.: [REDACTED] Fax No.: 281-373-1113

E-mail Address: syoung@waterengineers.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): Ms.

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

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

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

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

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

Indie Catch WWTP

C. Owner of treatment facility: Indie Catch, LLC

Ownership of Facility: Public Private Both Federal

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

Prefix (Mr., Ms., Miss): Indie Catch, LLC

First and Last Name: [REDACTED]

Mailing Address: 5599 San Felipe St., Suite 565

City, State, Zip Code: Houston, Texas 77056

Phone No.: 832-485-1907

E-mail Address: lmertz@scipioventures.com

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

Attachment: [REDACTED]

E. Owner of effluent disposal site:

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

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]

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

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

First and Last Name: [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:

7601 County Road 508, Alvarado, in Johnson County

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:

From the plant site to Mountain Creek (unclassified Segment 0838A); thence to Joe Pool Lake in Segment 0841 of the Lower West Fork Trinity River Basin

City nearest the outfall(s): Alvarado

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

Outfall Latitude: 32.442194 Longitude: -97.426069

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.

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:

D. Do you owe any fees to the TCEQ?

- Yes No

If **yes**, provide the following information:

Account number:

Amount past due:

E. Do you owe any penalties to the TCEQ?

- Yes No

If **yes**, please provide the following information:

Enforcement order number:

Amount past due:

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: Admin.02 Proof of Payment Admin.03 Core Data Form, Admin.04 Adjacent and Downstream Landowners Admin.05 Photographs
ADMIN.06 Buffer Zone Map

Section 14. Signature Page (Instructions Page 39)

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

Permit Number: New

Applicant: Indie Catch, LLC

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): Rahul Jain

Signatory title: Vice President

Signature: _____ Date: _____
(Use blue ink)

Subscribed and Sworn to before me by the said _____
on this _____ day of _____, 20____.
My commission expires on the _____ day of _____, 20____.

Notary Public

[SEAL]

County, Texas

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:

- Readable/Writeable CD Four sets of labels

D. Provide the source of the landowners' names and mailing addresses: Johnson 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

**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: Indie Catch, LLC

Permit No. WQ00 New

EPA ID No. TX New

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

7601 County Road 508, Alvarado, Johnson County

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

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

First and Last Name: Shelley Young

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

Title: Engineer

Mailing Address: 17230 Huffmeister Road, Suite A

City, State, Zip Code: Cypress, Texas 77429

Phone No.: 281-373-0500 Ext.: Fax No.: 281-373-1113

E-mail Address: syoung@waterengineers.com

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

N/A

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

From the plant site to Mountain Creek (unclassified Segment 0838A); thence to Joe Pool Lake in Segment 0841 of the Lower West Fork Trinity River Basin

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

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

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

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

Disturbance of vegetation or wetlands

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

WWTP site will be 3-4 acres and require some excavation no more than 10'.

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

Land is vacant and being used for agricultural purposes.

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

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

See #7 above

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

See #7 above

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.

India Catch, LLC (CN New) proposes to operate the Indie Catch Wastewater Treatment Plant (RN New) an activated sludge process operated in the single stage nitrification mode. The facility will be located at 7601 County Road 508, Alvarado, in Johnson County, Texas 76009.

This application is for a new application to discharge at a daily average flow of 975,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-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, chlorine contact chambers and a dechlorination chamber..

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.

Indie Catch, LLC (CN New) propone operar la Planta de Tratamiento de Aguas Residuales de Indie Catch (RN New), un proceso de lodos activados en el modo de nitrificación de una sola etapa. La instalación estará ubicada en 7601 Camino del Condado 508, Alvarado, en Condado de Johnson, Tejas 77357.

Esta solicitud es para una nueva aplicación para descargar a un flujo promedio diario de 975,000 galones por día de aguas residuales domésticas tratadas.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonoso de cinco días (CBOD₅), sólidos totalmente suspendidos (TSS), nitrógeno amoniacal (NH₄-N), y *Escherichia coli*. Los contaminantes potenciales adicionales se incluyen en el Informe Técnico Domésticas 1.0, Sección 7 Análisis de Contaminantes de Efluente Tratado en el paquete de solicitud de permisos. Las aguas residuales domésticas serán tratadas por una planta de proceso de lodos activados y las unidades de tratamiento incluirán una pantalla de barras, balsas de aireación, clarificadores finales, digestores de lodos, cámaras de contacto de cloro y una cámara de dechloración.



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): 0.075

2-Hr Peak Flow (MGD): 0.300

Estimated construction start date: 6/2023

Estimated waste disposal start date: 1/2024

B. Interim II Phase

Design Flow (MGD): 0.200

2-Hr Peak Flow (MGD): 0.800

Estimated construction start date: 1/2026

Estimated waste disposal start date: 7/2026

C. Final Phase

Design Flow (MGD): 0.975

2-Hr Peak Flow (MGD): 3.900

Estimated construction start date: 6/2032

Estimated waste disposal start date: 9/2033

D. Current operating phase: N/A

Provide the startup date of the facility: new

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:

In Phase I flow will enter the single stage nitrification activated sludge process through a bar screen into the aeration basin, thence to the clarifier, thence to the chlorine contact basin for disinfection and discharge. Sludge from the bottom of the clarifier will either be returned to the aeration basin or wasted to the digester. Thickened sludge will be hauled away for further processing. Phase II will add a flow splitter and a similar, but slightly larger plant to Phase I. The final phase will include a new concrete plant with flow going through a screening facility, thence to an influent channel, thence to aeration basins in parallel, thence to a mixed liquor channel, thence to clarifiers, thence to chlorination and dichlorination chambers. Sludge from the bottom of the clarifiers will either be returned to the influent channel or wasted to a sludge thickener; thence to a digester.

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)
See Attachment TECH.01		

C. Process flow diagrams

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

Attachment: TECH.02

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: TECH.03

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

The Indie Catch residential project.

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.

add here to check box

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.

[Empty text box for closure description]

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.

N/A

B. Buffer zones

Have the buffer zone requirements been met?

Yes No

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

N/A

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*.

[Redacted area]

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

Yes No

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

2. Grit and grease processing

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

Click here to enter text.

3. Grit disposal

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

Yes No

If No, contact the TCEQ Municipal Solid Waste team at 512-239-0000. 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.

Click here to enter text.

4. Grease and decanted liquid disposal

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

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

Click here to enter text.

E. Stormwater management

1. Applicability

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

Yes No

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

Yes No

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

2. MSGP coverage

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

Yes No

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

TXR05 [REDACTED] or TXRNE [REDACTED]

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:

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 BOD₅ concentration of the sludge, and the design BOD₅ 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 BOD₅ concentration of the septic waste, and the design BOD₅ 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 ₅ , mg/l					
Total Suspended Solids, mg/l					
Ammonia Nitrogen, mg/l					
Nitrate Nitrogen, mg/l					
Total Kjeldahl Nitrogen, mg/l					
Sulfate, mg/l					
Chloride, mg/l					
Total Phosphorus, mg/l					
pH, standard units					
Dissolved Oxygen*, mg/l					
Chlorine Residual, mg/l					
<i>E.coli</i> (CFU/100ml) freshwater					
Enterococci (CFU/100ml) saltwater					
Total Dissolved Solids, mg/l					
Electrical Conductivity, μ mohs/cm, †					

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Oil & Grease, mg/l					
Alkalinity (CaCO ₃)*, mg/l					

*TPDES permits only

†TLAP permits only

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Total Suspended Solids, mg/l					
Total Dissolved Solids, mg/l					
pH, standard units					
Fluoride, mg/l					
Aluminum, mg/l					
Alkalinity (CaCO ₃), mg/l					

Section 8. Facility Operator (Instructions Page 60)

Facility Operator Name: Inframark

Facility Operator's License Classification and Level: C or higher

Facility Operator's License Number: OC0000232

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: Other: Direct to site

B. Sludge disposal site

Disposal site name: Sloan Site

TCEQ permit or registration number: WQ0004989000

County where disposal site is located: Navarro

C. Sludge transportation method

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

Name of the hauler: Denali Water Solutions

Hauler registration number: 24979

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: [Click here to enter text.](#)

- Site map:

Attachment: [Click here to enter text.](#)

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

Check all that apply.

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

Attachment: [Click here to enter text.](#)

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

[Click here to enter text.](#)

B. Temporary storage information

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

Nitrate Nitrogen, mg/kg: [Click here to enter text.](#)

Total Kjeldahl Nitrogen, mg/kg: [Click here to enter text.](#)

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

Phosphorus, mg/kg: [Click here to enter text.](#)

Potassium, mg/kg: [Click here to enter text.](#)

pH, standard units: [Click here to enter text.](#)

Ammonia Nitrogen mg/kg: [Click here to enter text.](#)

Arsenic: [Click here to enter text.](#)

Cadmium: [REDACTED]

Chromium: [REDACTED]

Copper: [REDACTED]

Lead: [REDACTED]

Mercury: [REDACTED]

Molybdenum: [REDACTED]

Nickel: [REDACTED]

Selenium: [REDACTED]

Zinc: [REDACTED]

Total PCBs: [REDACTED]

Provide the following information:

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

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

[REDACTED]

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

[REDACTED]

C. Liner information

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

Yes No

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

[REDACTED]

D. Site development plan

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

[REDACTED]

Attach the following documents to the application.

- Plan view and cross-section of the sludge lagoon(s)
Attachment: [REDACTED]
- Copy of the closure plan
Attachment: [REDACTED]
- Copy of deed recordation for the site
Attachment: [REDACTED]
- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons
Attachment: [REDACTED]
- Description of the method of controlling infiltration of groundwater and surface water from entering the site
Attachment: [REDACTED]
- Procedures to prevent the occurrence of nuisance conditions
Attachment: [REDACTED]

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: [REDACTED]

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:

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:

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:

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: N/A - New Permit

Title: [REDACTED]

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.

Indie Catch, LLC is developing the ~165 acre tract into a 750 lot residential project in the Alvarado area of Johnson County. There are no other utilities in the proximate area able or willing to serve this proposed development. Indie Catch, LLC is currently looking into purchasing other tracts in the area to develop.

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: [click here to enter text](#)

If yes, attach correspondence from the city.

Attachment: [click here to enter text](#)

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: [click here to enter text](#)

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: [Click here to enter text](#)

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: TECH.05

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

Attachment: TECH.05

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: [Click here to enter text](#)

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): [REDACTED]

Average Influent Organic Strength or BOD₅ Concentration in mg/l: [REDACTED]

Average Influent Loading (lbs/day = total average flow X average BOD₅ conc. X 8.34): [REDACTED]

Provide the source of the average organic strength or BOD₅ concentration.

B. Proposed organic loading

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

Table 1.1(1) - Design Organic Loading

Source	Total Average Flow (MGD)	Influent BOD ₅ Concentration (mg/l)
Municipality		
Subdivision	0.075 / 0.200 / 0.975	300 / 300 / 300
Trailer park - transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria,		

Source	Total Average Flow (MGD)	Influent BOD ₅ 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	0.075 / 0.200 / 0.975	
AVERAGE BOD ₅ from all sources		300 / 300 / 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: 4.0

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: 4.0

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: sodium bisulfite
- 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: TECH.01

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.

Top of wall of treatment units and treatment equipment will be above the 100-year flood level

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

FEMA Flood Map 48251C0205J

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: [Click here to enter text](#)

If **no**, provide the approximate date you anticipate submitting your application to the Corps: [Click here to enter text](#)

B. Wind rose

Attach a wind rose. **Attachment:** TECH.03

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: [REDACTED]

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: [REDACTED]

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

Attach a solids management plan to the application.

Attachment: TECH.04

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:

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).

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: Mountain Creek

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: [Click here to enter text.](#)

B. Flow characteristics

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

- Intermittent - dry for at least one week during most years
- Intermittent with Perennial Pools - enduring pools with sufficient habitat to maintain significant aquatic life uses
- Perennial - normally flowing

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

- USGS flow records
- Historical observation by adjacent landowners
- Personal observation
- Other, specify: [Click here to enter text.](#)

C. Downstream perennial confluences

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

None

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.

[Redacted]

E. Normal dry weather characteristics

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

During normal dry weather conditions, the stream is intermittent.

Date and time of observation: 06/17/2022 @ 1010

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 None

B. Waterbody uses

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

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

- Domestic water supply Industrial water supply
 Park activities Other(s), specify unknown

C. Waterbody aesthetics

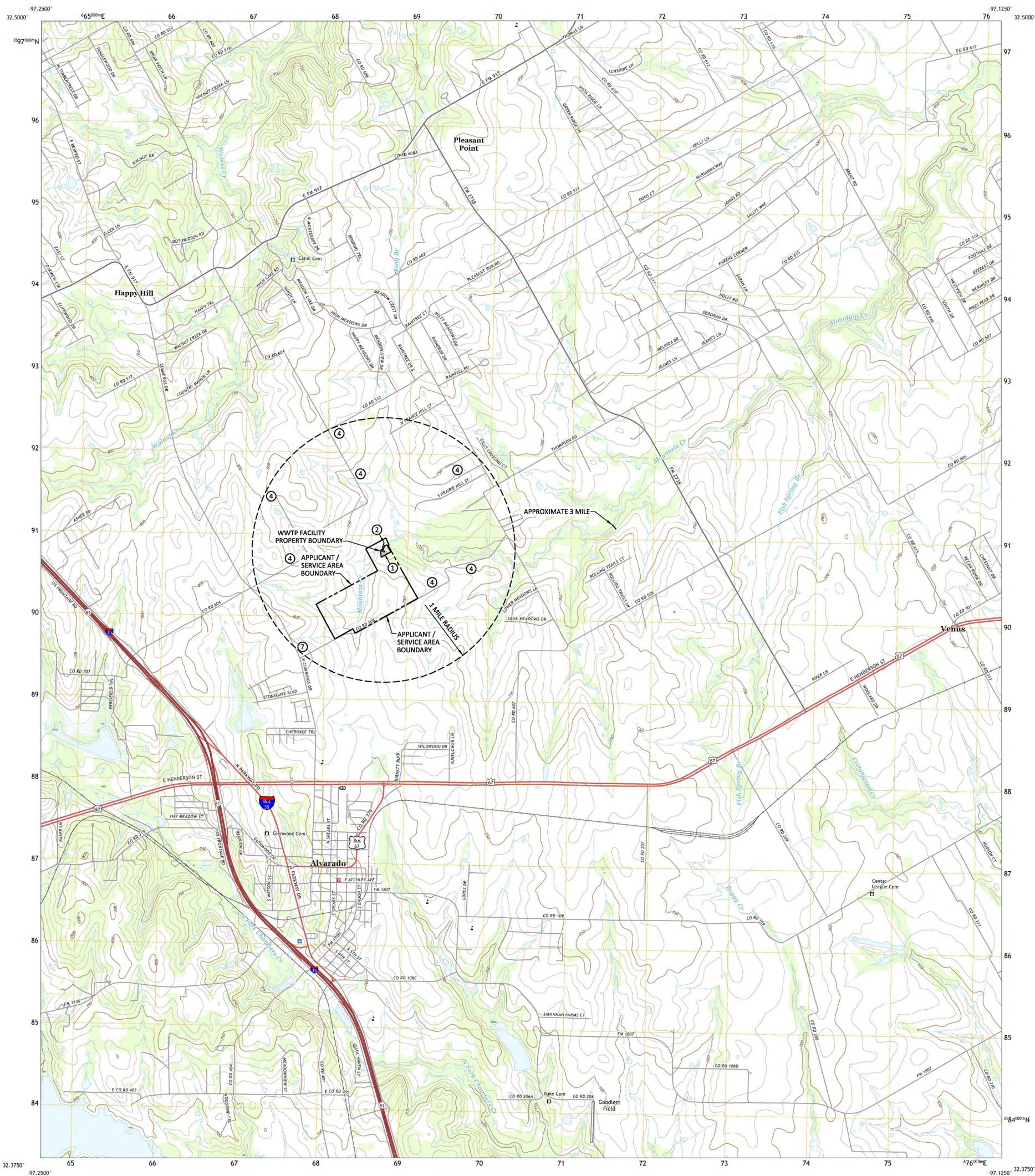
Check one of the following that best describes the aesthetics of the receiving water and the surrounding area.

- Wilderness: outstanding natural beauty; usually wooded or unpastured area; water clarity exceptional
- Natural Area: trees and/or native vegetation; some development evident (from fields, pastures, dwellings); water clarity discolored
- Common Setting: not offensive; developed but uncluttered; water may be colored or turbid
- Offensive: stream does not enhance aesthetics; cluttered; highly developed; dumping areas; water discolored

ATTACHMENT ADMIN.01

USGS Topographic Map

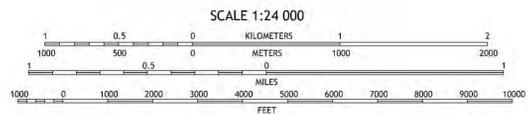
(Reference Administrative Report 1.0, Page 11, Question 13)



Produced by the United States Geological Survey

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

Imagery.....NAIP, September 2016 - November 2016
Roads.....U.S. Census Bureau, 2015 - 2018
Names.....GNS, 1979 - 2018
Hydrography.....National Hydrography Dataset, 2000 - 2018
Contours.....National Elevation Dataset, 2003 - 2004
Boundaries.....Multiple sources; see metadata file 2016 - 2017
Wetlands.....FWS National Wetlands Inventory 1981



ADJOINING QUADRANGLES

1	2	3	1 Burlington
2	3	4	2 Mansfield
3	4	5	3 Britton
4	5	6	4 Keene
5	6	7	5 Venus
6	7	8	6 Cleburne East
7	8		7 Grandview
8			8 Maypearl

ROAD CLASSIFICATION

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

SCALE 1:24 000
CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
This map was produced to conform with the
National Geospatial Program US Topo Product Standard, 2011.
A metadata file associated with this product is draft version 0.6.18

ALVARADO, TX 2019

LEGEND

- 1 APPLICANT'S WASTEWATER TREATMENT PLANT
- 2 POINT OF DISCHARGE
- 3 COMMERCIAL DEVELOPMENT
- 4 HOUSING DEVELOPMENT
- 5 INDUSTRIAL SITE
- 6 PARK
- 7 SCHOOLS
- 8 RECREATIONAL AREA
- 9 PUBLIC WATER WELL
- 10 EXISTING WWTP (OWNED BY OTHERS)

WATERENGINEERS, INC.
Water & Wastewater Treatment Consultants
TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM NO. 2066
17208 HANNAH ROAD
DALLAS, TEXAS 75249
PHONE: 214-375-1111
FAX: 214-375-1113

APPLICANT: INDIE CATCH, LLC
INDIE CATCH WWTP
APPLICATION FOR A NEW TPDES PERMIT

USGS TOPOGRAPHIC MAP

DRAWN BY: SIB
APPROVED BY: SBY
SCALE: AS NOTED
DATE: 4/24/2022
JOB NO.: 6117-22172

DWG. NO.:
ADMIN.01-1

ATTACHMENT ADMIN.02

Proof of Payment

(Reference Administrative Report 1.0, Page 11, Question 13)

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

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

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

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

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

BY OVERNIGHT/EXPRESS MAIL

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

Fee Code: WQP Waste Permit No: New

1. Check or Money Order Number: 7
2. Check or Money Order Amount: \$1,650.00
3. Date of Check or Money Order: 08/25/2022
4. Name on Check or Money Order: WaterEngineers, Inc.

5. APPLICATION INFORMATION

Name of Project or Site: Indie Catch WWTP

Physical Address of Project or Site: 7601 County Road 508, Alvarado

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

Staple Check or Money Order in This Space

ATTACHMENT ADMIN.03

Core Data Form

(Reference Administrative Report 1.0, Page 4, Section 3C)



TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)		
<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	
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (if issued)
CN		RN

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)	
<input checked="" type="checkbox"/> New Customer		<input type="checkbox"/> Update to Customer Information	
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)		<input type="checkbox"/> Change in Regulated Entity Ownership	
The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).			
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)		If new Customer, enter previous Customer below:	
Indie Catch, LLC			
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)
0804612498	32085070541		
11. Type of Customer:	<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"/> State <input type="checkbox"/> Other	<input type="checkbox"/> Sole Proprietorship	<input checked="" type="checkbox"/> Other: limited liability company	
12. Number of Employees	13. Independently Owned and Operated?		
<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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following:			
<input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator			
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> Voluntary Cleanup Applicant <input type="checkbox"/> Other:			
15. Mailing Address:	5599 San Felipe St., Suite 565		
	City	Houston	State TX ZIP 77056 ZIP + 4
16. Country Mailing Information (if outside USA)		17. E-Mail Address (if applicable)	
		rjain@scipioventures.com	
18. Telephone Number	19. Extension or Code	20. Fax Number (if applicable)	
(832) 548-0960		() -	

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected below this form should be accompanied by a permit application)	
<input checked="" type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information	
The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency 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.)	
Indie Catch Wastewater Treatment Plant	

23. Street Address of the Regulated Entity: <i>(No PO Boxes)</i>	7601 County Road 508						
	City	Alvarado	State	TX	ZIP	76009	ZIP + 4
24. County	Johnson						

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:							
26. Nearest City	Alvarado				State	TX	Nearest ZIP Code
							76009
27. Latitude (N) In Decimal:	32.4421			28. Longitude (W) In Decimal:	97.206886		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds		
32	26	31.56	-97	12	24.79		
29. Primary SIC Code (4 digits)	30. Secondary SIC Code (4 digits)		31. Primary NAICS Code (5 or 6 digits)		32. Secondary NAICS Code (5 or 6 digits)		
6552			237210				
33. What is the Primary Business of this entity? <i>(Do not repeat the SIC or NAICS description.)</i>							
Developing Land							
34. Mailing Address:	5599 San Felipe Street, Suite 565						
	City	Houston	State	TX	ZIP	77056	ZIP + 4
35. E-Mail Address:	rjain@scipioventures.com						
36. Telephone Number		37. Extension or Code		38. Fax Number <i>(if applicable)</i>			
(832) 548-960				() -			

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"/> Waste Water	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:
	New			

SECTION IV: Preparer Information

40. Name:	Shelley Young	41. Title:	Consulting Engineer
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(281) 373-0500		(281) 373-1113	syoung@waterengineers.com

SECTION V: Authorized Signature

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

Company:	WaterEngineers, Inc.	Job Title:	Engineer
Name <i>(In Print)</i> :	Shelley Young	Phone:	(281) 373-0500
Signature:	<i>Shelley Young</i>	Date:	8/18/2022

ATTACHMENT ADMIN.04

Affected Landowner Map and List

(Reference Administrative Report 1.1, Page 13, Section 1)

TABLE "ADMIN.04"

INDIE CATCH, LLC

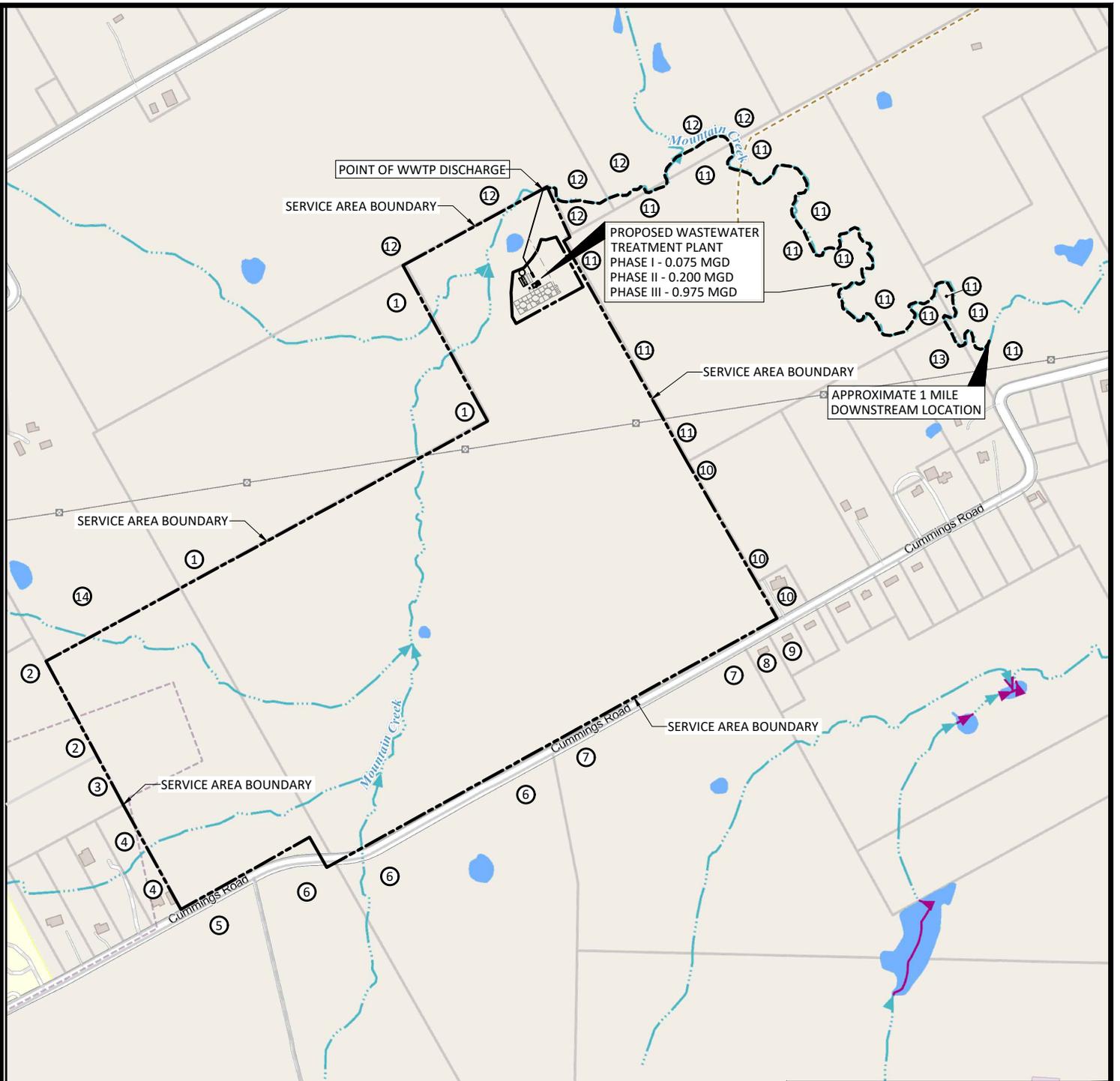
Indie Catch Wastewater Treatment Plant

Adjacent & Downstream Land Ownership Table

Source: Johnson County Appraisal District

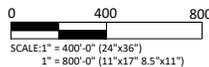
Tract No. (See Attachment "ADMIN.04" Map)	Title Owner & Address
1	JOE BEAN 7416 COUNTY ROAD 604 ALVARADO TX 76009
2	ALVARADO 1700 DEVELOPMENT LLC 1831 RIVEWR OAKS DRIVE WESTLAKE TX 76262
3	SUMMIT ALVARADO PARTNERS LP 5938 GOLIAD AVENUE DALLAS TX 75206
4	NANCY RIOS P O BOX 2569 ARLINGTON TX 76004-2569
5	AGAVE TRAIL DEVELOPMENT LLC 400 S OAK STREET APT 1413 ROANOKE TX 76262
6	ROBERT FRANKLIN 705 NW ANN LOIS BURLESON 76028
7	ALVARADO 429 PARTNERS LLC 2121 MIDWAY ROAD SUITE 155 CARROLLTON TX 75006
8	SIMLA INVESTMENTS LLC 50 W MASHTA DRIVE SUITE 1 KEY BISCAYNE FL 33149
9	ALEJANDRINA ALAYDE & ANGEL JESUS 8008 DOUNTY ROAD 508 ALVARADO TX 76009
10	MICHAEL SUNDAY 8025 COUNTY ROAD 508 ALVARADO TX 76009
11	GLADYS DIKE 4832 COURTSIDE DRIVE

	FORT WORTH TX 76133
12	FRANKLIN CRAWFORD 12619 CRYSTAL CREEK DRIVE BUDA TX 78610
13	ENRIQUE & TRINIDAD MERCADO 8237 COUNTY ROAD 508 ALVARADO TX 76009
14	JOEL G BEAN 7420 COUNTY ROAD 604 ALVARADO TX 76009



LEGEND

① DENOTES LANDOWNER
 SEE ATTACHED TABLE FOR LANDOWNERS



THIS DRAWING CONTAINS CONFIDENTIAL PROPRIETARY INFORMATION AND MAY NOT BE TRANSFERRED, REPRODUCED, OR USED TO CONSTRUCT ANY PROJECT OTHER THAN THAT FOR WHICH IT WAS ISSUED WITHOUT PRIOR PERMISSION FROM WATERENGINEERS, INC.

WATERENGINEERS, INC.
Water & Wastewater Treatment Consultants
 TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2066
 17230 HUFFMEISTER ROAD TEL: 281-373-0500
 CYPRESS, TEXAS 77429 FAX: 281-373-1113

APPLICANT: INDIE CATCH, LLC
 INDIE CATCH WWTP
 APPLICATION FOR A NEW TPDES PERMIT

**DOWNSTREAM & ADJACENT
 LANDOWNERS MAP**

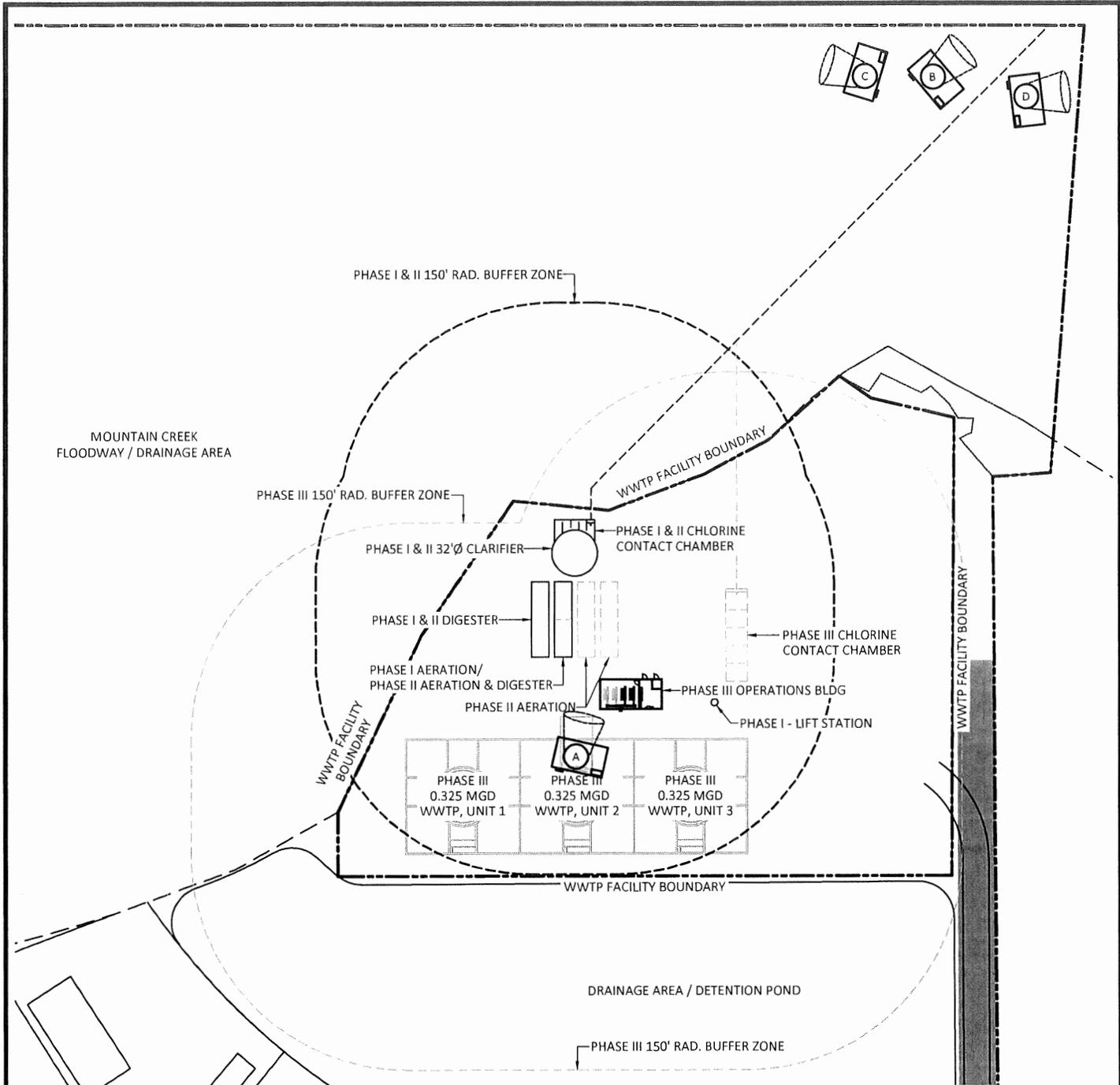
DRAWN BY: BIR	DWG. NO.:
APPROVED BY: SBY	ADMIN.04
SCALE: AS NOTED	
DATE: 8/24/2022	
JOB No.: 6117-22172	00065

\\server\weei\cad\current\jobs\6117-22172\indie_catch\llc\tpdes_22\weei_current\admin\04.dwg

ATTACHMENT ADMIN.05

Photographs

(Reference Administrative Report 1.1, Page 14, Section 2)



MOUNTAIN CREEK
FLOODWAY / DRAINAGE AREA

PHASE I & II 150' RAD. BUFFER ZONE

PHASE III 150' RAD. BUFFER ZONE

WWTP FACILITY BOUNDARY

WWTP FACILITY BOUNDARY

WWTP FACILITY BOUNDARY

WWTP FACILITY BOUNDARY

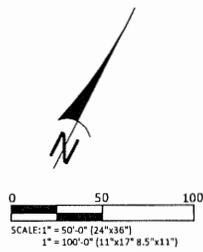
DRAINAGE AREA / DETENTION POND

PHASE III 150' RAD. BUFFER ZONE

NOTE:
SEE ATTACHED TABLE FOR
LANDOWNER INFORMATION

LEGEND

 DENOTES LOCATION FROM WHICH PHOTOGRAPHS WERE TAKEN
SEE ATTACHMENT ADMIN.05 FOR SITE PHOTOGRAPHS



THIS DRAWING CONTAINS CONFIDENTIAL PROPRIETARY INFORMATION AND MAY NOT BE TRANSFERRED, REPRODUCED, OR USED TO CONSTRUCT ANY PROJECT OTHER THAN THAT FOR WHICH IT WAS ISSUED WITHOUT PRIOR PERMISSION FROM WATERENGINEERS, INC.

WaterEngineers, Inc.
Water & Wastewater Treatment Consultants
TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2066
17230 HUFFMEISTER ROAD TEL: 281-373-0500
CYPRESS, TEXAS 77429 FAX: 281-373-1113

APPLICANT: INDIE CATCH, LLC
INDIE CATCH WWTP
APPLICATION FOR A NEW TPDES PERMIT

SITE PHOTOGRAPH LOCATION MAP

DRAWN BY: BIR
APPROVED BY: SBY
SCALE: AS NOTED
DATE: 8/24/2022
JOB No.: 6117-22172

DWG. NO.:
ADMIN.05-1

\\server\we\current\plans\6117-22172\indie catch, llc\spas 721\we current\adm.05-1.dwg

WASTEWATER TREATMENT PLANT SITE &
POINT OF DISCHARGE IN DISTANCE



POINT OF DISCHARGE
INTO MOUNTAIN CREEK



THIS DRAWING CONTAINS CONFIDENTIAL PROPRIETARY
INFORMATION AND MAY NOT BE TRANSFERRED, REPRODUCED, OR USED
TO CONSTRUCT ANY PROJECT OTHER THAN THAT FOR WHICH IT WAS ISSUED
WITHOUT PRIOR PERMISSION FROM WATERENGINEERS, INC.

WATERENGINEERS, INC.
Water & Wastewater Treatment Consultants
TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2066
17230 HUFFMEISTER ROAD TEL: 281-373-0500
CYPRESS, TEXAS 77429 FAX: 281-373-1113

APPLICANT: INDIE CATCH, LLC
INDIE CATCH WWTP
APPLICATION FOR A NEW TPDES PERMIT

SITE PHOTOGRAPHS

DRAWN BY: BIR

DWG. NO.:

APPROVED BY: SBY

SCALE: AS NOTED

DATE: 8/25/2022

JOB No.: 6117-22172

ADMIN.05-2

** SEE ADMIN.05-1 FOR LOCATION IN
WHICH PHOTOGRAPHS WERE TAKEN

50' DOWNSTREAM FROM POINT OF DISCHARGE



LOOKING BACK UPSTREAM AT POINT OF DISCHARGE



THIS DRAWING CONTAINS CONFIDENTIAL PROPRIETARY INFORMATION AND MAY NOT BE TRANSFERRED, REPRODUCED, OR USED TO CONSTRUCT ANY PROJECT OTHER THAN THAT FOR WHICH IT WAS ISSUED WITHOUT PRIOR PERMISSION FROM WATERENGINEERS, INC.

WaterENGINEERS, INC.
 Water & Wastewater Treatment Consultants
 TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2066
 17230 HUFFMEISTER ROAD TEL: 281-373-0500
 CYPRESS, TEXAS 77429 FAX: 281-373-1113

APPLICANT: INDIE CATCH, LLC
 INDIE CATCH WWTP
 APPLICATION FOR A NEW TPDES PERMIT

SITE PHOTOGRAPHS

DRAWN BY: BIR
 APPROVED BY: SBY
 SCALE: AS NOTED
 DATE: 8/25/2022
 JOB No.: 6117-22172

DWG. NO.:

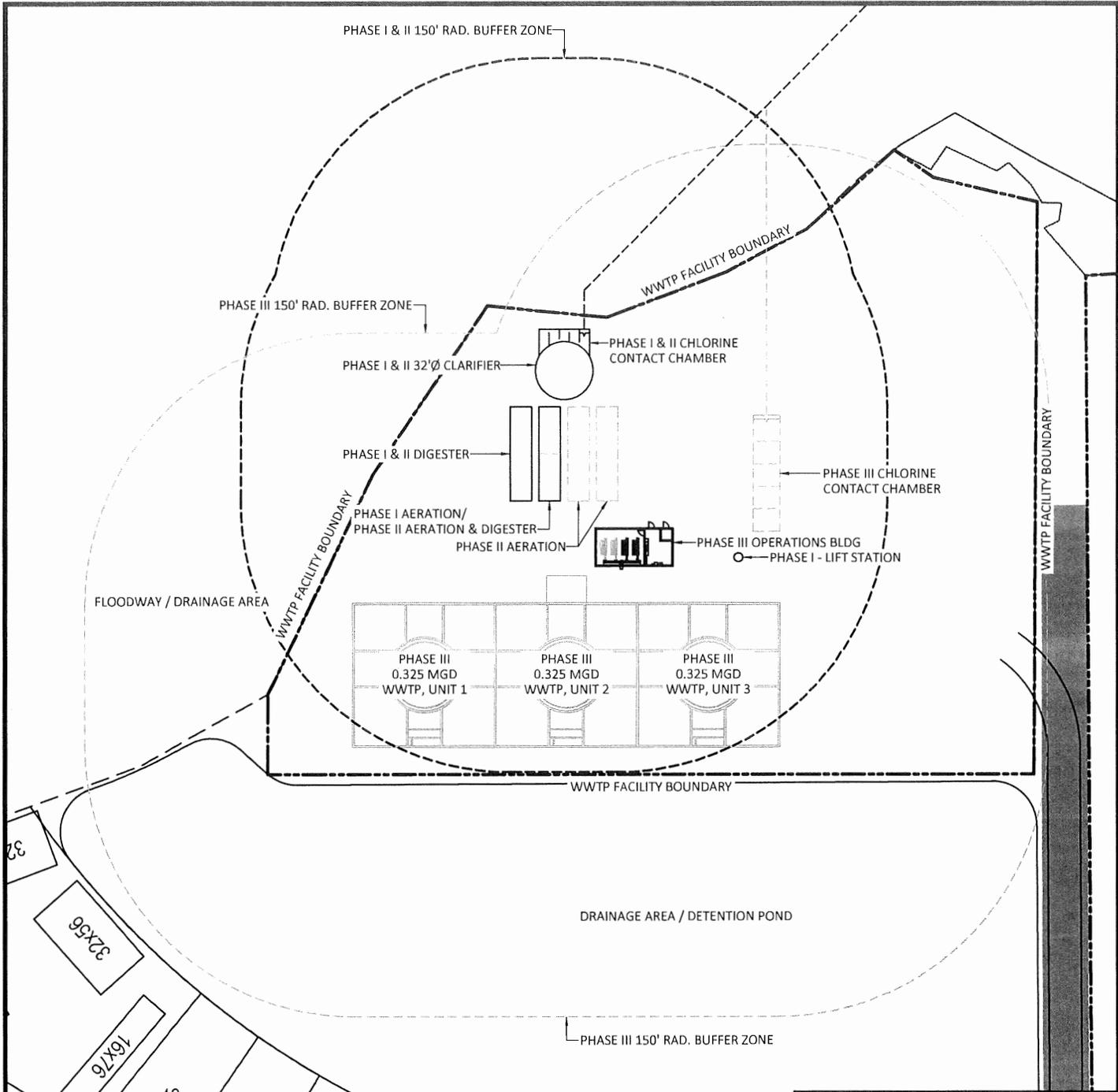
ADMIN.05-3

** SEE ADMIN.05-1 FOR LOCATION IN WHICH PHOTOGRAPHS WERE TAKEN

ATTACHMENT ADMIN.06

Buffer Zone Map

(Reference Administrative Report 1.1, Page 14, Section 3A)



THIS DRAWING CONTAINS CONFIDENTIAL PROPRIETARY INFORMATION AND MAY NOT BE TRANSFERRED, REPRODUCED, OR USED TO CONSTRUCT ANY PROJECT OTHER THAN THAT FOR WHICH IT WAS ISSUED WITHOUT PRIOR PERMISSION FROM WATERENGINEERS, INC.

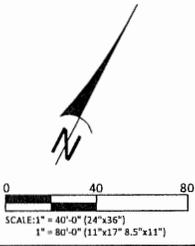
WATERENGINEERS, INC.
 Water & Wastewater Treatment Consultants
 TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2066
 17230 HUFFMEISTER ROAD TEL: 281-373-0500
 CYPRESS, TEXAS 77429 FAX: 281-373-1113

APPLICANT: INDIE CATCH, LLC
 INDIE CATCH WWTP
 APPLICATION FOR A NEW TPDES PERMIT

BUFFER ZONE MAP

DRAWN BY: BIR
 APPROVED BY: SBY
 SCALE: AS NOTED
 DATE: 8/24/2022
 JOB No.: 6117-22172

DWG. NO.:
ADMIN.06

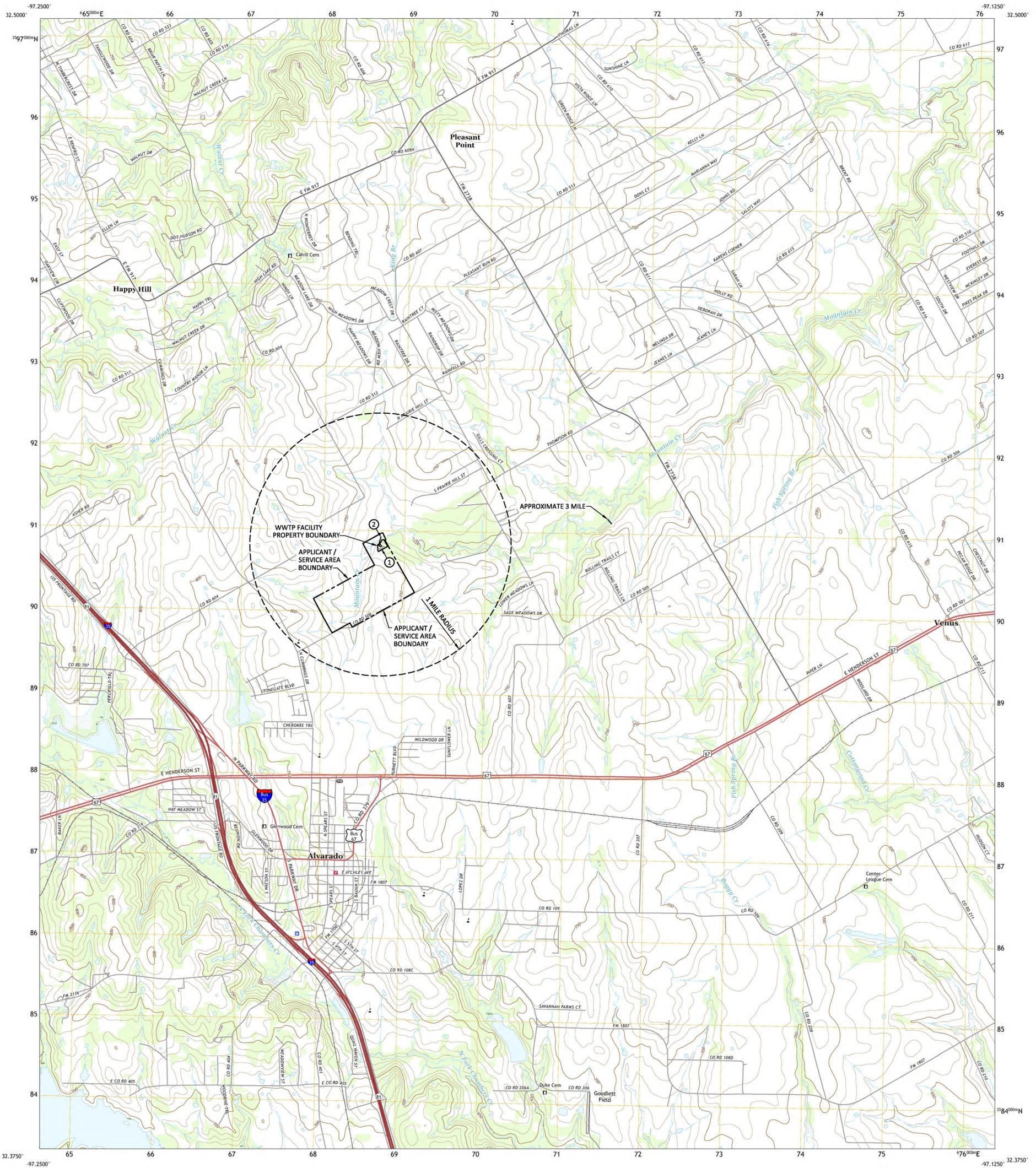


\\server\water\cad\project\pba\6117-22172\indie catch, llc\tpdes 22\ww current\admin.06.dwg

ATTACHMENT SPIF.01

USGS Topographic Map

(Reference Supplemental Permit Information Form, Pg 16, Question 5)



Produced by the United States Geological Survey North American Datum of 1983 (NAD83) World Geodetic System of 1984 (WGS84)...

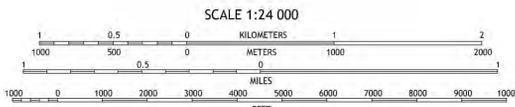


Table with 3 columns and 3 rows showing adjacent quadrangles: 1 Burleson, 2 Mansfield, 3 Britton, 4 Keene, 5 Venus, 6 Cleburne East, 7 Grandview, 8 Maypearl.

ROAD CLASSIFICATION legend: Expressway, Secondary Hwy, Ramp, Interstate Route, US Route, State Route, Local Connector, Local Road, FWD.

ALVARADO, TX 2019

WATERENGINEERS, INC. Water & Wastewater Treatment Consultants TEXAS BOARD OF PROFESSIONAL ENGINEERS (P.E. No. 2084) 17232 HUMPHREYS ROAD CYPRESS, TEXAS 77429

APPLICANT: INDIE CATCH, LLC INDIE CATCH WWTP APPLICATION FOR A NEW TIDES PERMIT

USGS TOPOGRAPHIC MAP

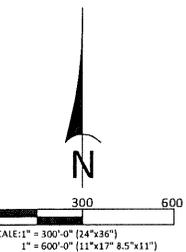
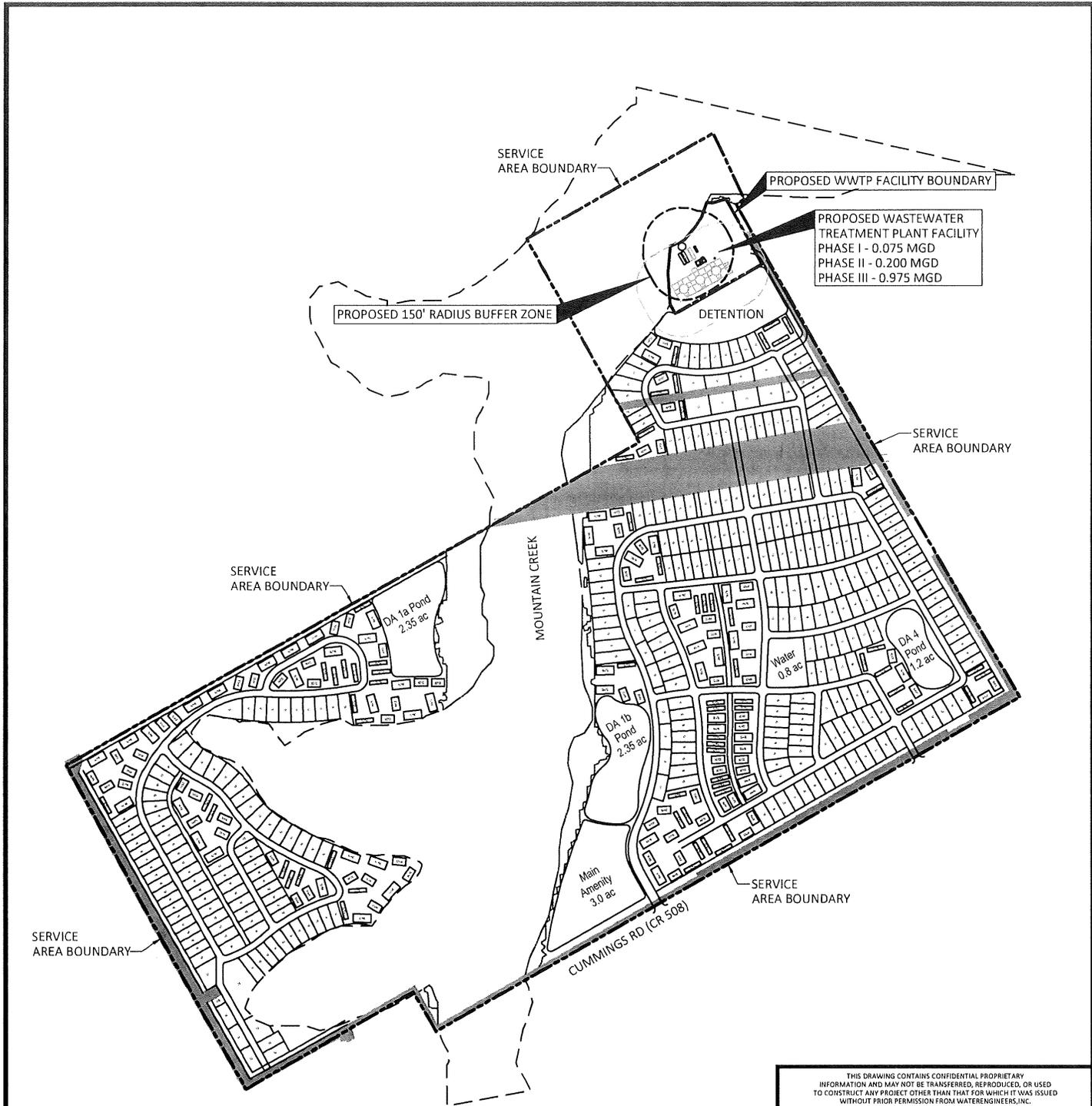
LEGEND table: 1 APPLICANT'S WASTEWATER TREATMENT PLANT, 2 POINT OF DISCHARGE

Metadata table: DRAWN BY: BRB, APPROVED BY: SBY, SCALE: AS NOTED, DATE: 8/24/2022, DWS NO.: SP1F.01-1

ATTACHMENT SPIF.02

Site Drawing

(Reference Supplemental Permit Information Form, Pg 16, Question 5)



LEGEND

	PROPOSED SERVICE AREA BOUNDARY
	DEVELOPMENT AREA BOUNDARY

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 INDIE CATCH WWTP
 APPLICATION FOR A NEW TPDES PERMIT

SERVICE AREA & SITE PLAN

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SCALE: AS NOTED	
DATE: 8/24/2022	
JOB No.: 6117-22172	

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ATTACHMENT TECH.01

Design & Loading Criteria Table

(Reference Technical Report Page 2, Question 2b)

**ATTACHMENT TECH.01-01
DESIGN & LOADING CRITERIA ~ COARSE BUBBLE DIFFUSERS
INDIE CATCH WASTEWATER TREATMENT PLANT**

Parameter	Phase 1	Phase 2
INFLUENT CONDITIONS		
Average Daily Flow, gpd	75,000	200,000
Ratio Average/Peak Flow	4.00	4.00
Peak 2-Hour Flow, gpd	300,000	800,000
Peak 2-Hour Flow, gpm	208	556
BOD, mg/l	300	300
BOD, lb/day	188	500
ACTIVATED SLUDGE PROCESS		
Aeration Basin		
Aeration Length Provided, ft	52.0	130.0
Aeration Basin Width Provided, ft	12	12
SWD at Avg Daily Flow, ft	10.50	10.50
Total Aeration Volume, cu ft	6,552	16,380
BOD Load, #/1000 cu ft	28.6	30.5
Detention time, hrs	15.7	14.7
O2 Req'd @ 2.2 # O2/lb BOD, #/day	413	1,101
Correction Factor (Coarse Bubble)	0.65	0.65
Air Diffuser Eff., %	16.6%	16.6%
Process Air Flow Rate, scfm	154	411
Mixing Air @ 20 scfm/1000 cu ft	131	328
Selected Air Supply Rate, scfm	154	411
Temperature Correction Factor for 30 deg F	1.27	1.27
Temperature Corrected Air Flow Rate, scfm	196	521
No. diffusers (24-inch wide SS band diffuser)	12.0	24.0
Air Flow per Diffuser, scfm	16.3	21.7
Air Supply, scfm/1000 cf	30	32
R.S. Airlift Air, scfm	34	34
Skimmer Airlift Air, scfm	5	5
CLARIFIER		
Selected Clarifier Diameter, ft	32	32
Clarifier Wall Height, ft	12.00	12.00
Side Water Depth @ Qavg, ft	10.50	10.50
Total Area sq ft	804	804
Total Volume, cu ft	8,445	8,445
Total Volume, gallons	63,166	63,166
Avg. SOR, gpd/sq ft	93	249
Peak SOR, gpd/sq ft	373	995
Avg. Detention, hr	20.21	7.58
Peak Detention, hr	5.1	1.9
Max Qr @ 400 gpd/sf, gpm (each)	223	223
Max Qr @ 400 gpd/sf, gpd (each)	321,699	321,699
Max Qp + Qr, gpd	621,699	1,121,699
CHLORINE CONTACT BASIN		
Proposed Length, ft	28.00	28.00
Proposed Width, ft	7.00	7.00
Proposed SWD, ft	8.5	8.5
Actual Volume, cu ft	1,666	1,666
Air Supply Required @ 15 scfm/1000 cu ft	25	25
Actual Detention @ Qp, minutes	59.82	22.43
AEROBIC DIGESTION/SLUDGE HOLDING		
Proposed Length, ft	26.0	78.0
Proposed Width, ft	12	12
Proposed SWD, ft	10.5	10.5
Volume Provided, cu ft	3,276	9,828
Volume Provided, gallons	24,504	73,513
Loading, cu ft/# BOD	17.5	19.6
Air Supply Rate, scfm/1000 cu ft	30	30
Total Air Supply, cfm	98.3	294.8
Air Flow per Diffuser, scfm	20	20
Minimum No. of diffusers	5	15
AIR BLOWERS		
Aeration Basin Air Supply, scfm	196	521
Aerobic Digester Air Supply, scfm	98	295
Chlorine Basin Air Supply, scfm	25	25
Return Sludge Airlift Air Supply, scfm	34	34
Skimmer Airlift Air Supply, scfm	5	5
Required Air Supply, cfm	357	880
No. of Blowers	2	3
Required Capacity, scfm	357	440
Selected Capacity, scfm	265	265
Blower Op Pressure, psi	5.58	5.58

TECH.01-02
 DESIGN & LOADING CRITERIA
 INDIE CATCH WWTP
 PHASE 3 - 975,000 GPD CAPACITY (4Q)

Parameter	WWTP # 1 Value	WWTP # 2 Value	WWTP # 3 Value	Composite Value
INFLUENT CONDITIONS				
% of Flow to Each Plant	33.3%	33.3%	33.4%	
Average Daily Flow, mgd	0.325	0.325	0.325	0.975
Ratio Average/Peak Flow	4.00	4.00	4.00	4.00
Peak 2-Hour Flow, mgd	1.300	1.300	1.300	3.900
BOD, mg/l	300	300	300	300
BOD, lb/day	813	813	813	2,439
TREATMENT UNITS				
Tank Wall Height, ft	12	12	12	12
Tank Freeboard, ft	1.5	1.5	1.5	1.5
Side Water Depth, ft	10.5	10.5	10.5	10.5
ACTIVATED SLUDGE PLANT				
Anoxic/Selector Zone				
Design Detention, hrs	2	2	2	2
Required Volume, cu ft	3,621	3,621	3,621	10,862
Required Volume, Gallons	27,083	27,083	27,083	81,250
Anoxic Basin Depth, ft	10.5	10.5	10.5	10.5
Required Anoxic Basin Surface Area, sq ft	345	345	345	1,035
Actual Anoxic Basin Surface Area, sq ft	372	372	372	1,116
Actual Anoxic Basin Volume, cu ft	3,906	3,906	3,906	11,718
Detention, hours	2.16	2.16	2.16	2.16
Air Supply, scfm/1000 cu ft	20	20	20	20
Air Supply, scfm	78	78	78	234
Aeration Basin Oxidation Zones				
Aeration Basin Loading, lb BOD/1000 cu ft	30	30	30	30
Aeration Basin Volume, cu ft	27,105	27,105	27,105	81,315
Aeration Basin Depth, ft	10.25	10.25	10.25	10.25
Req'd Aeration Basin Surface Area, sq ft	2,644	2,644	2,644	7,933
Actual Aeration Basin Surface Area, sq ft	2,662	2,662	2,662	7,986
Actual Aeration Basin Volume, cu ft	27,286	27,286	27,286	81,857
Total Aerated Volume (Anoxic + Aerobic), cu ft	31,192	31,192	31,192	93,575
Aeration Basin Loading, # BOD/1000 cf	26.1	26.1	26.1	26.1
Detention, hours	17.23	17.23	17.23	17.23
O ₂ Req'd @ 2.2, # O ₂ /lb BOD	1,789	1,789	1,789	1,789
Correction Factor for Fine Bubble	0.45	0.45	0.45	0.45
Air Diffuser Submergence, ft	9.50	9.50	9.50	9.50
Air Diffuser Efficiency, %/ ft sub	0.017	0.017	0.017	0.017
Air Diffuser eff., %	16.2%	16.2%	16.2%	16.2%
Required Aeration Basin Air Flow Rate, scfm	913	913	913	913
Mixed Liquor Temperature, deg C	30	30	30	30
Air Supply Temperature Correction Factor	1.268	1.268	1.268	1.268
Corrected Air Supply Rate, scfm	1,157	1,157	1,157	3,471
No. of Tube Diffuser Membranes (36.4" long)	86	86	86	258
Active membrane surface area/diffuser, sq ft	2,54	2,54	2,54	2,54
Diffuser air flow, scfm/SF of membrane	5.30	5.30	5.30	5.30
Air Supply, scfm/1000 cf	33	34	34	34
R.S. Airlift Air, scfm	52	52	52	157
Skimmer Airlift Air, scfm	5	5	5	15
Clarifier				
Selected Internal Diameter, ft	40	40	40	
Side Water Depth, ft	10.35	10.35	10.35	
Total Area sq ft	1,257	1,257	1,257	3,770
Total Volume, cu ft	13,006	13,006	13,006	39,019
Avg. SOR, gpd/sq ft	259	259	259	259
Peak SOR, gpd/sq ft	1,035	1,035	1,035	1,035
Avg. Detention, hr	7.18	7.18	7.18	7.18
Peak Detention, hr	1.80	1.80	1.80	1.80
Max Qr @ 400 mgd/sf, mgd	0.503	0.503	0.503	1,508
Max Qp + Qr, mgd	1.803	1.803	1.803	5,408
CHLORINATION				
Min. Detention, min.	24	24	24	
Side Water Depth, ft	8.83	8.75	8.75	
Minimum Volume, cu ft	2,897	5,793	8,690	17,380
Min. Surface Area, sq ft	328	662	993	993
Actual Surface Area, sq ft	320	960	960	960
Actual Volume, cu ft	2,826	8,400	8,400	8,400
Detention @ Qp, minutes	23.4	34.8	23.2	
Air Supply @ 10 scfm/1000 cf	28	84	84	84
DECHLORINATION				
Min. Detention, min.	N/A	0.5	0.5	
Side Water Depth, ft	N/A	8.75	8.75	
Minimum Volume, cu ft	N/A	121	181	302
Min. Surface Area, sq ft	N/A	14	21	34
Actual Surface Area, sq ft	N/A	20	20	20
Actual Volume, cu ft	N/A	175	175	175
Detention @ Qp, minutes	N/A	0.7	0.5	
Air Supply @ 10 scfm/1000 cf	N/A	2	2	2
AEROBIC DIGESTION				
Req'd Loading, cu ft/# BOD	22.5	22.5	22.5	22.5
Required Volume, cu ft	18,296	18,296	18,296	54,888
Basin Depth, ft	10.5	10.5	10.5	10.5
Min. Surface Area, sq ft	1,742	1,742	1,742	5,227
Actual Surface Area, sq ft	1,744	1,744	1,744	5,232
Total Actual Volume, cu ft	18,312	18,312	18,312	54,936
Loading, cu ft/# BOD	22.5	22.5	22.5	22.5
Air Supply Rate, scfm/1000 cu ft	25	25	25	25
Total Air Supply, cfm	458	458	458	1,373
No. diffuser membranes (2/diffuser)	80	80	80	240
Airflow/diffuser membrane, scfm	5.72	5.72	5.72	5.72
AIR BLOWERS				
Anoxic Basin, scfm	78	78	78	234
Oxic Basins, scfm	1,157	1,157	1,157	3,471
RAS Airlift, scfm	52	52	52	157
Scum Airlift, scfm	5	5	5	15
Chlorine Contact Basin, scfm	28	84	84	84
Dechlorination Basin, scfm	N/A	2	2	2
Aerobic Digester Basin, scfm	458	458	458	1,373
Total Air Supply Required, scfm	1,779	1,836	1,836	5,337
No. of Blowers	2	1	1	4
Capacity, scfm	1,500	1,500	1,500	4,500
Firm Capacity, scfm	1,500	1,500	1,500	4,500
Blower Op Pressure, psi	5.36	5.36	5.36	5.36

INDIE CATCH, LLC
 INDIE CATCH WASTEWATER TREATMENT PLANT
 WQ0016213001

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Phase I - 0.075 MGD		
Aeration	1	52' L x 12' W x 10.5' SWD
Clarifier	1	32' Diam. x 10.5' SWD
Chlorine Contact	1	28' L x 7' W x 8.5' SWD
Digester	1	26' L x 12' W x 10.5' SWD
Phase II - 0.200 MGD		
Aeration	2	52' L x 12' W x 10.5' SWD
Aeration	1	26' L x 12' W x 10.5' SWD
Clarifier	1	32' Diam. x 10.5' SWD
Chlorine Contact	1	28' L x 7' W x 8.5' SWD
Digester	1	26' L x 12' W x 10.5' SWD
Digester	1	52' L x 12' W x 10.5' SWD
Final Phasel - 0.975 MGD		
Selector/Anoxic Zone	3	372 sq. ft. x 10.5' SWD
Aeration	3	2,662 sq. ft. x 10.5' SWD
Clarifier	3	40' Diam. x 10.35' SWD
Chlorine Contact	3	320 sq. ft. x 8.83' SWD
Dechlorination	1	20 sq. ft. x 8.75' SWD
Digester	1	1,744 sq. ft. x 10.5' SWD

DESIGN FEATURES FOR RELIABILITY

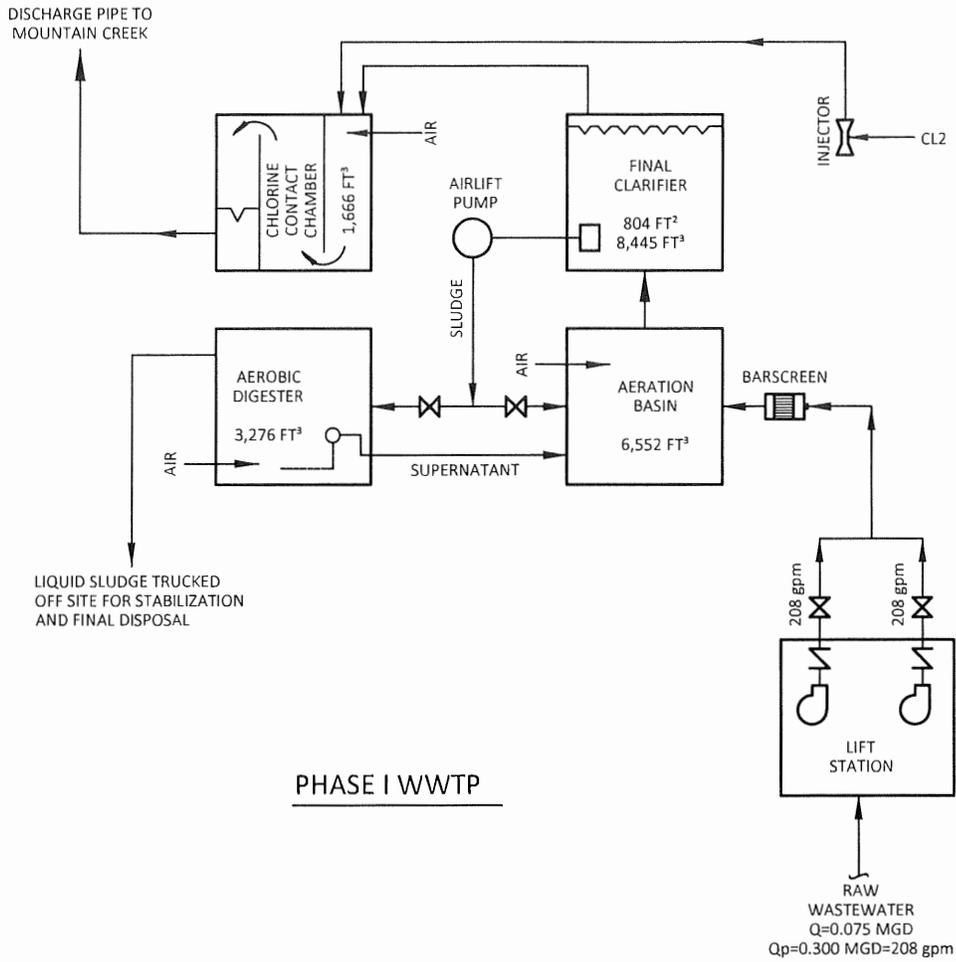
The Indie Catch Wastewater Treatment Plant facilities will be designed to provide a high degree of mechanical reliability consistent with TCEQ Design Criteria. The following describe design features that will be incorporated at the facilities to prevent bypassing or overflows of untreated wastewater:

- A. No infiltration/inflow is anticipated since the collection system will be new and not subject to the effects of age and deterioration at this time.
- B. The electrical service that will serve the Indie Catch WWTP is reliable with most outages lasting less than 2-4 hours. However, Indie Catch, LLC plans to purchase a generator to operate necessary plant components during extended outages.
- C. All mechanical units, such as influent pumps, blowers and chemical feed pumps will be installed with spare units in the event a piece of equipment is out of service for repairs.
- D. Plant units will be maintained per TCEQ standards and repaired as quickly as possible should failure occur.
- E. The facilities will include an auto-dialer that will call the operator in case of power outages, blower malfunctions, lift station malfunctions or high-water alarm situations.

ATTACHMENT TECH.02

Process Flow Diagram

(Reference Technical Report Page 2, Question 2c)



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APPLICANT: INDIE CATCH, LLC
INDIE CATCH WWTP
APPLICATION FOR A NEW TPDES PERMIT

FLOW SCHEMATIC

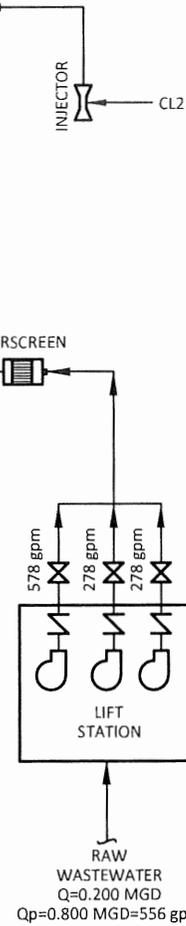
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DISCHARGE PIPE TO MOUNTAIN CREEK

LIQUID SLUDGE TRUCKED OFF SITE FOR STABILIZATION AND FINAL DISPOSAL

PHASE II WWTP



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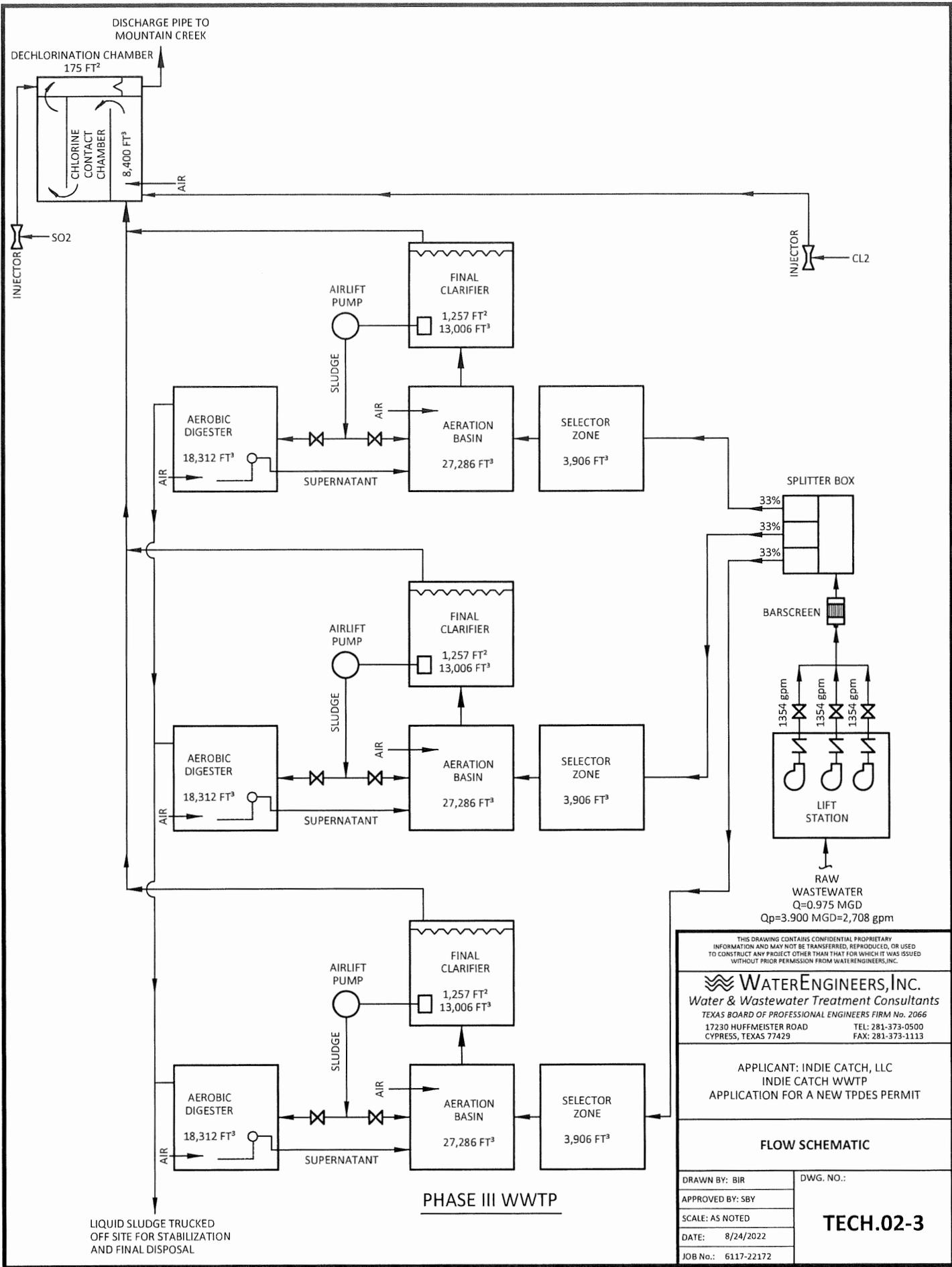
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FLOW SCHEMATIC

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 INDIE CATCH WWTP
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FLOW SCHEMATIC

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 SCALE: AS NOTED
 DATE: 8/24/2022
 JOB No.: 6117-22172

DWG. NO.:
TECH.02-3

PHASE III WWTP

LIQUID SLUDGE TRUCKED OFF SITE FOR STABILIZATION AND FINAL DISPOSAL

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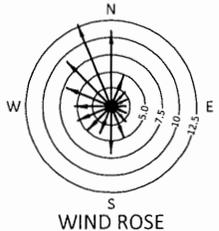
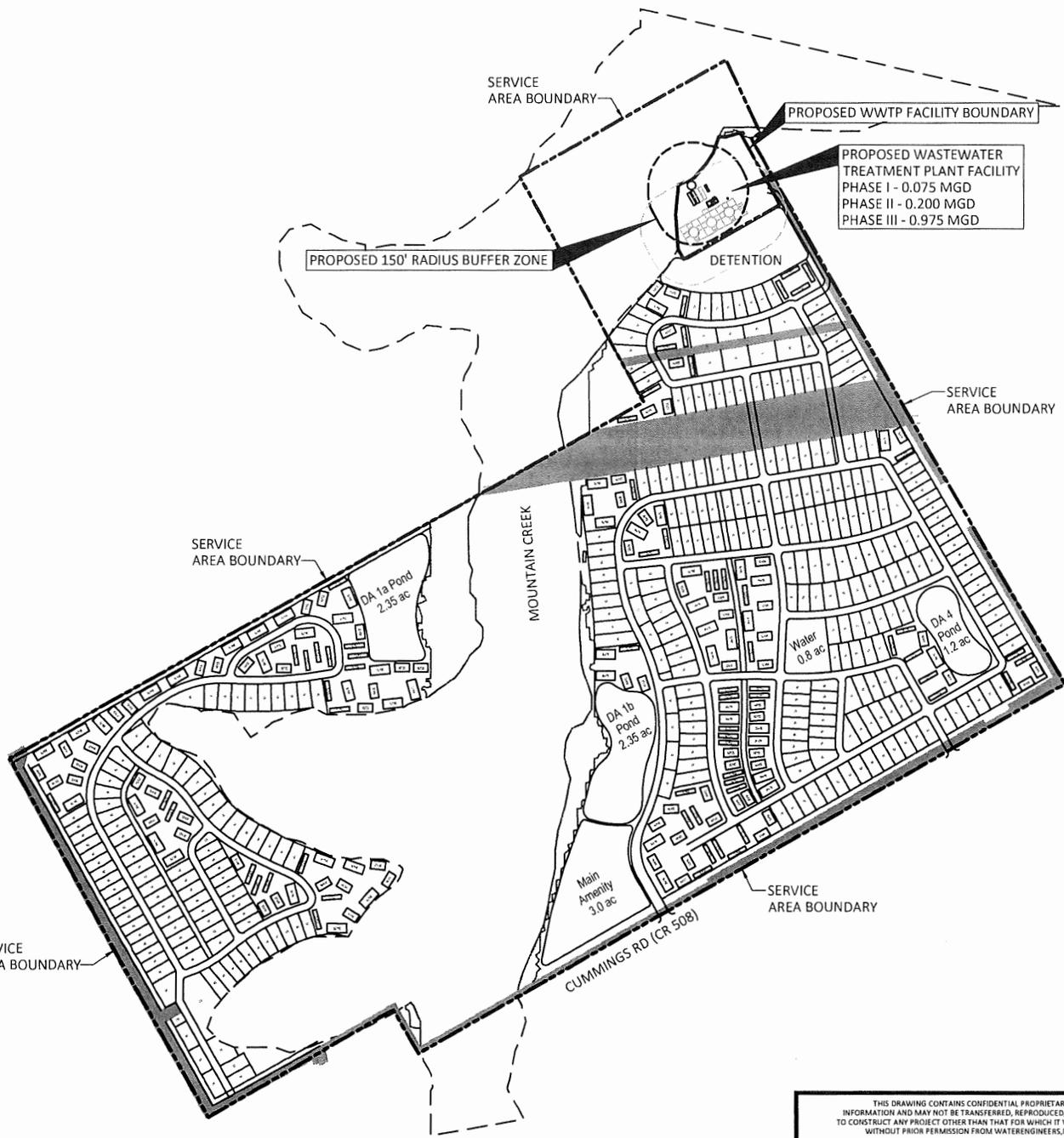
ATTACHMENT TECH.03

Site Drawing

(Reference Technical Report Page 3, Question 3)

(Including Wind Rose)

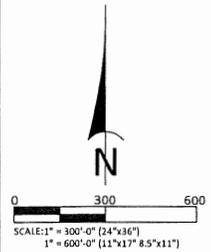
(Reference Technical Report Page 24, Question 5B)



DEPICTING % OF TIME WIND BLOWS
 IN INDICATED DIRECTION. BASED ON
 DATA AT HOUSTON
 INTERCONTINENTAL AIRPORT.

LEGEND

	PROPOSED SERVICE AREA BOUNDARY
	DEVELOPMENT AREA BOUNDARY



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SERVICE AREA & SITE PLAN

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ATTACHMENT TECH.04

Solids Management Plan

(Reference Technical Report Page 24, Question 7)

**ATTACHMENT TECH.04
SLUDGE MANAGEMENT PLAN**

1. Type of Wastewater Treatment Process Used

The Indie Catch Wastewater Treatment Plant (WWTP) will use the activated sludge with nitrification process. Solids analyses have been made based upon a spreadsheet calculation set up using sludge kinetic calculations developed by Dr. Ross McKinney and published in *Notes on Activated Sludge*, 1971, by Brian L. Goodman. Tables TECH.04-01, TECH.04-02 and TECH.04-03 show the process design and sludge generation calculations for the design flows of 75,000 gpd, 200,000 gpd and 975,000 gpd.

2. Dimensions and Capacities

The Phase I treatment facility will have a digester with a total volume of 3,276 cu. ft., a surface area of 312 sq. ft. and a 10.5 ft. side water depth. The Phase I digester will provide a total design flow loading of 17.5 cu. ft./lb BOD. The Phase II treatment facility will have a digester with a total volume of 9,828 cu. ft., a surface area of 936 sq. ft. and a 10.5 ft. side water depth. The Phase II digester will provide a total design flow loading of 19.6 cu. ft./lb BOD. The Final Phase will have three digesters with a total volume of 54,936 cu. ft., a surface area of 5,232 sq. ft. and a 10.5 ft. side water depth. The Final Phase digesters will provide a total design flow loading of 22.5 cu. ft./lb BOD.

3. Sludge Generation Calculations

Sludge generation calculations showing the amount of solids generated at 100%, 75%, 50% and 25% of design flows are included in Attachments TECH.04-01, TECH.04-02 and TECH.04-03. These are the solids that must be wasted from the activated sludge process and that must be stabilized in the aerobic digester. The results are summarized in the following table:

Phase	Solids @ 100% Qavg, lb/day	Solids @ 75% Qavg, lb/day	Solids @ 50% Qavg, lb/day	Solids @ 25% Qavg, lb/day
Phase I	128	96	64	32
Phase II	342	256	171	86
Final Phase	1,837	1,379	919	460

4. Operating Range of Mixed Liquor Suspended Solids

The calculations that predict the mixed liquor suspended solids in the activated sludge process are located in the following table:

	Predicted Solids @100% Flow		Predicted Solids @75% Flow		Predicted Solids @50% Flow		Predicted Solids @25% Flow	
	sludge age, days	MLSS mg/l	sludge age, days	MLSS mg/l	sludge age, days	MLS S mg/l	sludge age, days	MLSS mg/l
Phase I	11	3,565	14.5	3,526	22	3,569	44	3,571
Phase II	10	3,456	13.5	3,502	20	3,460	40	3,462
Final Phase	9.5	3,524	12.5	3,479	19	3,528	38	3,529

5. Solids Removal Procedures

The removal of waste activated sludge from the activated sludge process is achieved by wasting sludge from the bottom of the clarifier into the aerobic digester using the waste sludge airlift pump. In order to thicken solids prior to putting them into the digester, the air lift is turned off for approximately one hour prior to wasting. Periodically (two to three times a week) the air supply to the aerobic digester is shut off, allowing solids to settle to the bottom of the digester. Then the supernatant liquor is decanted with an adjustable decant airlift pump and returned to the aeration basin. After a sufficient period of digestion and/or the digester is full, sludge is removed from the digester by a vacuum truck by hooking the truck hose to the piping connection and opening the shut off valve.

6. Quantity of Solids to Be Removed and Solids Removal Schedule

The quantity of solids to be removed at the various plant loadings are presented in the following table. These quantities shown in the tabulation are *monthly* quantities based upon an influent BOD of 300 mg/l and TSS of 200 mg/l. If the strength of the influent wastewater varies significantly, solids removal quantities will be different.

Phase	@ 100 % Flow Capacity		@ 75 % Flow Capacity		@ 50 % Flow Capacity		@ 25 % Flow Capacity	
	% Solids	Gal/ Month	% Solids	Gal/ Month	% Solids	Gal/ Month	% Solids	Gal/ Month
Phase I	2.0	18,382	2.0	13,793	2.0	9,199	2.0	4,601
Phase II	2.0	48,761	2.0	36,583	2.0	24,402	2.0	12,206
Final Phase	2.0	267,815	2.0	200,961	2.0	137,007	2.0	67,028

7. Identification of Disposal Site

The disposal of sludge from the WWTP is contracted to sludge management and disposal contractor, Denali Water Solutions, who transports liquid sludge from the digester to other wastewater treatment facilities for further processing. Solids documentation is assured by measuring the volume of each sludge withdrawal and measuring the sludge solids concentrations. All required data is included in the annual sludge report to the TCEQ.

**ATTACHMENT TECH.04-01
PROCESS DESIGN AND SLUDGE GENERATION CALCULATIONS
DESIGN & LOADING CRITERIA ~ COARSE BUBBLE DIFFUSERS**

INFLUENT CONDITIONS

Design Flow Rate, mgd	0.075	Aeration Vol, cu ft	6,552
Infl. BOD, mg/l	300	Clarifier Diameter, ft	32
Infl. TSS, mg/l	200	Clarifier Side Wall Depth, ft	10.50
Infl. VSS, mg/l	160	Clarifier Surface Area, sq ft	804
BOD Loading, lb/day	188	Clarifier Volume, cu ft	8,445
BOD Load, #/1000 cu ft	28.68	Temperature, deg C	20

Actual Plant Loading, %	100%	75.0%	50%	25.0%
Actual Flow Rate, mgd	0.075	0.056	0.038	0.019
BOD Loading, #/Day	188	141	94	47
Ret. Sludge Rate, gpd/sq ft	400	400	400	400
Ret. Sludge Flow, mgd	0.32	0.32	0.32	0.32
t = Aeration Time, days	0.653	0.871	1.307	2.614
ts = Sludge Age, Days	11.0	14.5	22.0	44.0
Km = BOD Removal Metabolic Factor	360	360	360	360
Ks = Synthesis Factor	250	250	250	250
Ke = Endogenous Metabolism Factor	0.22	0.17	0.11	0.05
F = Effl Soluble BOD	1.27	0.95	0.64	0.32
Ma = Active Mass	1,027	1,017	1,029	1,030
Me = Endogenous Mass	592	586	593	593
Mi = Inert Organic Mass	943	932	943	943
Mii = Inert Inorganic Mass	1,004	992	1,004	1,004
Mt = Total Mass, mg/l	3,565	3,526	3,569	3,571
Total Mass in Aeration Basin, lb	1,457	1,441	1,459	1,459
Lb BOD/Lb MLSS/Day	0.129	0.098	0.064	0.032
Effl TSS, mg/l	7	7	7	7
Effl BOD, mg/l	3	2	2	2
Sludge Accumulation, lb/day	132	99	66	33
TSS Lost In Effluent, lb/day	4	3	2	1
Waste Sludge, lb/day	128	96	64	32
Return Sludge Conc, mg/l	4,396	4,143	3,985	3,779
Waste Sludge Conc, mg/l	10,000	10,000	10,000	10,000
Waste Sludge Flow, gpd	1,535	1,152	768	384

AEROBIC DIGESTER

Volume, cu ft	3,276			
Design Loading, cu ft/lb BOD	17.46	23.28	34.92	69.83
Incoming Sludge Conc, mg/l	10,000	10,000	10,000	10,000
Thick Sludge Conc, mg/l	20,000	20,000	20,000	20,000
Detention, Days	31.93	42.54	63.79	127.52
Infl Total Solids, lb/day	128	96	64	32
Infl Active Mass, lb/day	37	28	18	9
Effl Active Mass, lb/Day	5	3	2	1
Active Mass Red., lb/day	26	19	13	6
Digester Effl Solids, lb/day	102	77	51	26
Sludge Disposed, lb/mg	1,363	1,363	1,364	1,364
Sludge Disposed, tons/mg	0.68	0.68	0.68	0.68
Sludge Hauled, gal/day	613	460	307	153
Sludge Hauled, gal/month	18,382	13,793	9,199	4,601

**ATTACHMENT TECH.04-02
PROCESS DESIGN AND SLUDGE GENERATION CALCULATIONS
DESIGN & LOADING CRITERIA ~ COARSE BUBBLE DIFFUSERS**

INFLUENT CONDITIONS

Design Flow Rate, mgd	0.200	Aeration Vol, cu ft	16,380
Infl. BOD, mg/l	300	Clarifier Diameter, ft (each)	32
Infl. TSS, mg/l	200	Clarifier Side Wall Depth, ft	10.50
Infl. VSS, mg/l	160	Clarifier Surface Area, sq ft (total)	1,608
BOD Loading, lb/day	500	Clarifier Volume, cu ft (total)	16,889
BOD Load, #/1000 cu ft	30.59	Temperature, deg C	20

Actual Plant Loading, %	100%	75.0%	50%	25.0%
Actual Flow Rate, mgd	0.200	0.150	0.100	0.050
BOD Loading, #/Day	500	375	250	125
Ret. Sludge Rate, gpd/sq ft	400	400	400	400
Ret. Sludge Flow, mgd	0.64	0.64	0.64	0.64
t = Aeration Time, days	0.613	0.817	1.225	2.450
ts = Sludge Age, Days	10.00	13.5	20.0	40.0
Km = BOD Removal Metabolic Factor	360	360	360	360
Ks = Synthesis Factor	250	250	250	250
Ke = Endogenous Metabolism Factor	0.24	0.18	0.12	0.06
F = Effl Soluble BOD	1.35	1.02	0.68	0.34
Ma = Active Mass	996	1,009	998	999
Me = Endogenous Mass	574	581	575	575
Mi = Inert Organic Mass	914	926	914	914
Mii = Inert Inorganic Mass	973	985	973	974
Mt = Total Mass, mg/l	3,456	3,502	3,460	3,462
Total Mass in Aeration Basin, lb	3,532	3,578	3,536	3,538
Lb BOD/Lb MLSS/Day	0.142	0.105	0.071	0.035
Effl TSS, mg/l	7	7	7	7
Effl BOD, mg/l	3	2	2	2
Sludge Accumulation, lb/day	353	265	177	88
TSS Lost In Effluent, lb/day	12	9	6	3
Waste Sludge, lb/day	342	256	171	86
Return Sludge Conc, mg/l	4,531	4,318	3,998	3,731
Waste Sludge Conc, mg/l	10,000	10,000	10,000	10,000
Waste Sludge Flow, gpd	4,097	3,073	2,051	1,026

AEROBIC DIGESTER

Volume, cu ft	9,828			
Design Loading, cu ft/lb BOD	19.64	26.19	39.28	78.56
Incoming Sludge Conc, mg/l	10,000	10,000	10,000	10,000
Thick Sludge Conc, mg/l	20,000	20,000	20,000	20,000
Detention, Days	35.89	47.85	71.70	143.31
Infl Total Solids, lb/day	342	256	171	86
Infl Active Mass, lb/day	98	74	49	25
Effl Active Mass, lb/Day	10	8	5	3
Active Mass Red., lb/day	71	53	35	18
Digester Effl Solids, lb/day	271	203	136	68
Sludge Disposed, lb/mg	1,356	1,356	1,357	1,357
Sludge Disposed, tons/mg	0.68	0.68	0.68	0.68
Sludge Hauled, gal/day	1,625	1,219	813	407
Sludge Hauled, gal/month	48,761	36,583	24,402	12,206

ATTACHMENT TECH.04-03
PROCESS DESIGN AND SLUDGE GENERATION CALCULATIONS
PHASE III - 975,000 GPD CAPACITY (4Q)
INDIE CATCH WWTP

INFLUENT CONDITIONS

Design Flow Rate, mgd	0.975	Aeration Vol, cu ft	81,857
Infl. BOD, mg/l	300	Clarifier Diameter, ft, each	40
Infl. TSS, mg/l	240	Clarifier Side Wall Depth, ft	10.35
Infl. VSS, mg/l	192	Clarifier Surface Area, sq ft	3,770
BOD Loading, lb/day	2,439	Clarifier Volume, cu ft	39,019
BOD Load, #/1000 cu ft	29.8	Temperature, deg C	20

Actual Plant Loading, %	1	0.75	0.5	0.25
Actual Flow Rate, mgd	0.975	0.7313	0.4875	0.2438
BOD Loading, #/Day	2439	1830	1220	610
Ret. Sludge Rate, gpd/sq ft	250	250	250	250
Ret. Sludge Flow, mgd	0.94	0.94	0.94	0.94
t = Aeration Time, days	0.63	0.84	1.26	2.51
ts = Sludge Age, Days	9.5	12.5	19	38
Km = BOD Removal Metabolic Factor	360	360	360	360
Ks = Synthesis Factor	250	250	250	250
Ke = Endogenous Metabolism Factor	0.253	0.192	0.126	0.063
F = Effl Soluble BOD	1.321	0.992	0.662	0.331
Ma = Active Mass	923	912	925	926
Me = Endogenous Mass	532	525	533	533
Mi = Inert Organic Mass	1,017	1,003	1,017	1,017
Mii = Inert Inorganic Mass	1,053	1,039	1,053	1,054
Mt = Total Mass, mg/l	3,524	3,479	3,528	3,529
Total Mass in Aeration Basin, lb	17,996	17,768	18,014	18,023
Lb BOD/Lb MLSS/Day	0.136	0.103	0.068	0.034
Effl TSS, mg/l	7.0	7.0	7.1	7.1
Effl BOD, mg/l	2.5	2.2	1.8	1.5

Sludge Accumulation, lb/day	1894	1421	948	474
TSS Lost in Effluent, lb/day	57	42	29	14
Waste Sludge, lb/day	1837	1379	919	460
Return Sludge Conc, mg/l	7,170	6,179	5,352	4,442
Waste Sludge Conc, mg/l	7,170	6,179	5,352	4,442
Waste Sludge Flow, gpd	30,721	26,759	20,597	12,415

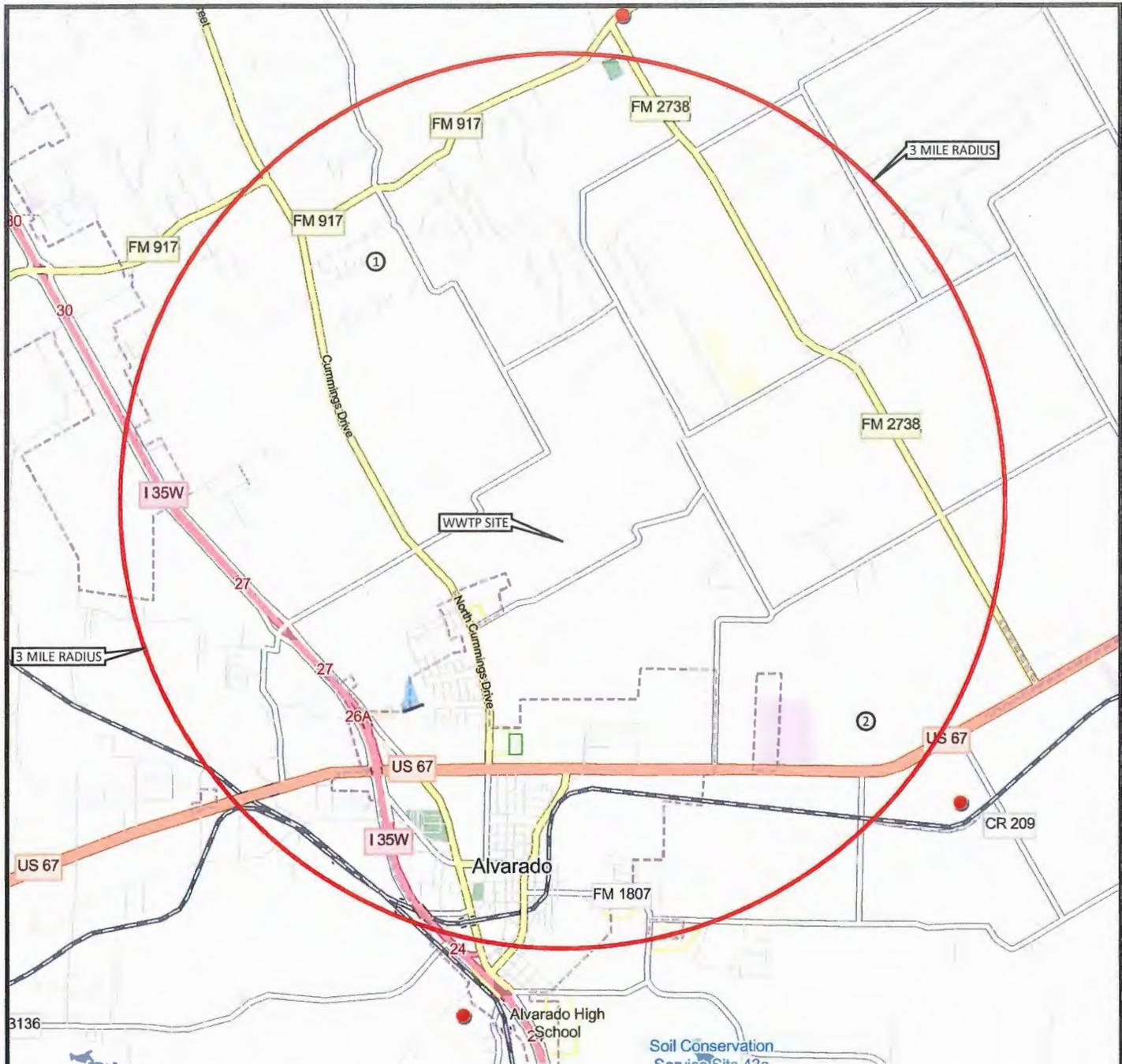
AEROBIC DIGESTER

Volume, cu ft	54,936			
Design Loading, cu ft/lb BOD	23	30	45	90
Incoming Sludge Conc, mg/l	7,170	6,179	5,352	4,442
Thick Sludge Conc, mg/l	20,000	20,000	20,000	20,000
Detention, Days	37	50	75	149
Infl Total Solids, lb/day	1,837	1,379	919	460
Infl Active Mass, lb/day	481	361	241	121
Effl Active Mass, lb/Day	46	34	23	12
Active Mass Red., lb/day	348	262	174	87
Digester Effl Solids, lb/day	1,489	1,117	745	373
Sludge Disposed, lb/mg	1,527	1,528	1,528	1,529
Sludge Disposed, tons/mg	0.76	0.76	0.76	0.76
Sludge Hauled, gal/day	8,927	6,699	4,467	2,234
Sludge Hauled, gal/month	267,815	200,961	134,007	67,028

ATTACHMENT TECH.05

Map and List of Facilities within 3 Miles And Service Request Correspondence

(Reference Technical Report Page 20, Section 1.B)



REFERENCE No.	TPDES PERMIT No.
1	WQ0013868001
2	WQ0015611001

THIS DRAWING CONTAINS CONFIDENTIAL PROPRIETARY INFORMATION AND MAY NOT BE TRANSFERRED, REPRODUCED, OR USED TO CONSTRUCT ANY PROJECT OTHER THAN THAT FOR WHICH IT WAS ISSUED WITHOUT PRIOR PERMISSION FROM WATERENGINEERS, INC.

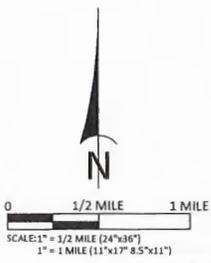
WaterENGINEERS, INC.
 Water & Wastewater Treatment Consultants
 TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2066
 17230 HUFFMEISTER ROAD TEL: 281-373-0500
 CYPRESS, TEXAS 77429 FAX: 281-373-1113

APPLICANT: INDIE CATCH, LLC
 INDIE CATCH WWTP
 APPLICATION FOR A NEW TPDES PERMIT

REGIONAL WASTEWATER SYSTEMS MAP

DRAWN BY: BIR
 APPROVED BY: SBY
 SCALE: AS NOTED
 DATE: 8/24/2022
 JOB No.: 6117-22172

DWG. NO.:
TECH.05



so that we can return the card to you.
 Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

POOL BROTHERS LLC
 P O BOX 2196
 BURLESON TX 76097

Article Addressed to: Yes No

2. Article Number (Transfer from service label)
 7020 3160 0000 9959 3020

PS Form 3811, July 2020 PSN 7530-02-000-9053

so that we can return the card to you.
 Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

POOL BROTHERS LLC
 P O BOX 2196
 BURLESON TX 76097

Article Addressed to: Yes No

2. Article Number (Transfer from service label)
 7020 3160 0000 9959 3020

PS Form 3811, July 2020 PSN 7530-02-000-9053

so that we can return the card to you.
 Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

POOL BROTHERS LLC
 P O BOX 2196
 BURLESON TX 76097

Article Addressed to: Yes No

2. Article Number (Transfer from service label)
 7020 3160 0000 9959 3020

PS Form 3811, July 2020 PSN 7530-02-000-9053

so that we can return the card to you.
 Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

ALVARADO I.S.D.
 P O BOX 387
 ALVARADO TX 76009

Article Addressed to: Yes No

2. Article Number (Transfer from service label)
 7020 3160 0000 9959 3013

PS Form 3811, July 2020 PSN 7530-02-000-9053

3. Service Type

Adult Signature

Registered Mail™

Certified Mail®

Signature Confirmation™

Collect on Delivery

Collect on Delivery Restricted Delivery

Insured Mail (over \$500)

3. Service Type

Adult Signature

Registered Mail™

Certified Mail®

Signature Confirmation™

Collect on Delivery

Collect on Delivery Restricted Delivery

Insured Mail (over \$500)

3. Service Type

Adult Signature

Registered Mail™

Certified Mail®

Signature Confirmation™

Collect on Delivery

Collect on Delivery Restricted Delivery

Insured Mail (over \$500)

3. Service Type

Adult Signature

Registered Mail™

Certified Mail®

Signature Confirmation™

Collect on Delivery

Collect on Delivery Restricted Delivery

Insured Mail (over \$500)

SENDER: COMPLETE THIS SECTION

■ Complete items 1, 2, and 3.
 ■ Print your name and address on the reverse so that we can return the card to you.
 ■ Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Y OF ALVARADO
 WEST COLLEGE STREET
 ALVARADO TX 76009

2. Article Number (Transfer from service label)
 7020 3160 0000 9959 2993

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 X Agent Address

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below:

3. Service Type

Adult Signature

Registered Mail™

Certified Mail®

Signature Confirmation™

Collect on Delivery

Collect on Delivery Restricted Delivery

Insured Mail (over \$500)

Priority Mail Express®

Registered Mail™

Signature Confirmation™

Restricted Delivery

SENDER: COMPLETE THIS SECTION

■ Complete items 1, 2, and 3.
 ■ Print your name and address on the reverse so that we can return the card to you.
 ■ Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

STONETOWN WALNUT CREEK LLC
 720 SOUTH COLORADO BLVD
 SUITE 1150N
 GLENDALE CO 80246

2. Article Number (Transfer from service label)
 7020 3160 0000 9959 3037

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 X Agent Address

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below:

3. Service Type

Adult Signature

Registered Mail™

Certified Mail®

Signature Confirmation™

Collect on Delivery

Collect on Delivery Restricted Delivery

Insured Mail (over \$500)

Priority Mail Express®

Registered Mail™

Signature Confirmation™

Restricted Delivery

SENDER: COMPLETE THIS SECTION

■ Complete items 1, 2, and 3.
 ■ Print your name and address on the reverse so that we can return the card to you.
 ■ Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Johnson County Pipe
 800 County Road 209
 Alvarado, TX 76009

2. Article Number (Transfer from service label)
 7020 3160 0000 9959 3013

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 X Agent Address

B. Received by (Printed Name)
 J Fred Veer

C. Date of Delivery
 7/25/22

D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below:
 820 Canyon
 Alvarado, TX 76009

3. Service Type

Adult Signature

Registered Mail™

Certified Mail®

Signature Confirmation™

Collect on Delivery

Collect on Delivery Restricted Delivery

Insured Mail (over \$500)

Priority Mail Express®

Registered Mail™

Signature Confirmation™

Restricted Delivery

WATERENGINEERS, INC.

WATER & WASTEWATER TREATMENT CONSULTANTS
17230 HUFFMEISTER ROAD, SUITE A~CYPRESS, TEXAS 77429-1643
TEL: 281-373-0500 FAX: 281-373-1113

July 22, 2022

Stonetown Walnut Creek, LLC
720 South Colorado Blvd., Suite 1150N
Glendale, CO 80246

Certified Mail 7020 3160 0000 9959 3037

Re: Wastewater Service - WQ0013868001

Dear Permittee,

We are supporting the residential development of a ~165-acre parcel of land at 7601 County Road 508, Alvarado, Texas 76009 (see attached map), within the ETJ of the City of Alvarado. Currently, we are working to secure utilities at this site, including sanitary sewer service.

We noticed that you have a TPDES permitted discharge point within 3 miles from the proposed development. We are requesting sanitary sewer service from you for this proposed development. We respectfully request your feedback and return of this letter in the return envelope provided.

Site Boundary

The land is approximately 165 acres located at 7601 County Road 508, Alvarado, Texas 76009, on the north side of Cummings Road within Johnson County. A legal description of the land is included here:

FIRST TRACT: A part of the David Mitchell Survey, in Johnson County, Texas, and more particularly described as follows: Beginning at a stake in the South boundary line of said survey and about 547 varas N. 60 E. from the S.W. corner thereof; Thence N. 60 E. with said S. boundary line 457 vrs. to stake for corner; Thence N 30 W. 990 vrs. to stake for corner; Thence S. 60 W. 457 vrs. to a stake; the N. E. corner of a 40 acre tract of land heretofore conveyed by J. M. and J. E. Stout to J. T. and J. D. Snodgrass October 25, 1883. The same being the N.W. corner of this tract hereby conveyed; Thence S. 30 E. with their E. boundary line 990 vrs to stake in S. boundary line of said D. Mitchell Survey, the S. E. corner of said Snodgrass tract and the place of beginning.

SECOND TRACT: 70 acres of land out of the David Mitchell and Hiram Lewis Surveys, in Johnson County, Texas, and Beginning at a stake in road, the N. W. corner of the John Snodgrass 160 acre tract out of said surveys, same being the N. E. corner of the John Ezell tract out of the H. Lewis Survey; Thence N. 60 E. 293 vrs. to the N. E. corner of the H. Lewis Survey; Thence S. 30 E. 300 vrs. to stake for corner in the East line of Lewis Survey; Thence N. 60 E. 547 vrs. to stake for corner, to the N. E. corner of the Snodgrass 160 acre tract, and the N. W. corner of an 80 acre tract purchased by Snodgrass from Shropshire; Thence S. 30 E. 363.4 vrs. to an iron stake for corner; Thence S. 60 W. 844 vrs. to an iron stake for corner; in the west line of the Snodgrass 160 acre tract; Thence N. 30 W. 613.4 vrs. to the place of beginning.

SAVE AND EXCEPT FROM THE ABOVE DESCRIBED FIRST TRACT AND SECOND TRACT, THE FOLLOWING DESCRIBED PROPERTY:

(A) 70 acres of land of which 35.7 acres is in the Lewis Survey and 34.3 acres is in the Mitchell Survey, being further described in Warranty Deed from William Roy Anderson et ux, Ella Jane Anderson to Robert A. Hughey et ux, Sylvia Hughey, dated March 1, 1963 and recorded in [Volume 455, Page 230](#) of the Deed Records of Johnson County, Texas; and

(B) 10 acres of land out of the David Mitchell Survey, Abstract No. 586, Patent No. 372, Volume 11, being further described in Warranty Deed from William Roy Anderson et ux, Ella Jane Anderson to Robert A. Hughey et ux, Sylvia Hughey, dated January 13, 1964 and recorded in [Volume 466, Page 51](#) of the Deed Records of Johnson County, Texas.

THIRD TRACT: Beginning at a stake in road, the S. W. corner of said Snodgrass 160 acre tract, being also the S. E. corner of the John Ezell tract out of the H. Lewis Survey, being in the South line of said Lewis Survey; Thence N. 60 E. 297 vrs. to a stake for corner, being the S. E. corner of said Lewis Survey; Thence S. 30 E. 70 vrs. to a stake for corner same being the S. W. corner of the D. Mitchell Survey; Thence N. 60 E. 547 vrs. to an iron stake for corner, same being the S. E. corner of the Snodgrass 160 acre tract, and the S. W. corner of 80 acres conveyed to Snodgrass by Shropshire; Thence N. 30 W. with the E. line of said 160 acres 626.6 vrs. to an iron stake for corner; Thence S. 60 W. 844 vrs. to an iron stake for corner in the West line of said 160 acres; Thence S. 30 E. 556.6 vrs. to the place of beginning, containing 90 acres of land.

Requirement

We estimate needing 975,000 gallons per day of wastewater service at full build (including additional properties in the area) out with an initial delivery date of 18 months for the first phase of development.

Questions

1. Do you have current capacity, or are you willing to expand, to serve the wastewater required? Please respond with either "Yes" or "No".

_____ *NO*

2. If you can serve this development, what is the nearest connection location? Please provide address, coordinate, or cross streets that are nearest to the development.

_____ *NA*

3. If you must expand to provide service to this development, do you have an expected timeframe of when this will be done?

_____ *NA*

4. What is the cost that must be paid by the development to be serviced with wastewater by you?

_____ *NA*

5. If you are a public entity, is annexation required for us to be served? Please respond with either "Yes" or "No". (If you are a private sewer provider, this question does not apply.)

_____ *NO*

Inquiries

If you have any questions, please contact us by phone or mail at the above address and phone number. If you prefer email, please contact me at syoung@waterengineers.com.

Denial of Service

If we do not receive a response within 30 days of mailing this letter, we will assume this is a denial of service, and no other action or response is due on your part.

Thank you for your feedback.

Sincerely,
WATERENGINEERS, INC.



Shelley Young, P.E.

Encl: As noted



WATERENGINEERS, INC.

WATER & WASTEWATER TREATMENT CONSULTANTS

17230 HUFFMEISTER ROAD, SUITE A~CYPRESS, TEXAS 77429-1643

TEL: 281-373-0500 FAX: 281-373-1113

July 22, 2022

City of Burleson
141 W. Renfro Street
Burleson, Texas 76028

Certified Mail 7020 3160 0000 9959 3006

Re: Wastewater Service - Sewer CCN No. 20358

Dear Permittee,

We are supporting the residential development of a ~165-acre parcel of land at 7601 County Road 508, Alvarado, Texas 76009 (see attached map), within the ETJ of the City of Alvarado. Currently, we are working to secure utilities at this site, including sanitary sewer service.

We noticed that you have a sewer CCN service area within 3 miles from the proposed development. We are requesting sanitary sewer service from you for this proposed development. We respectfully request your feedback and return of this letter in the return envelope provided.

Site Boundary

The land is approximately 165 acres located at 7601 County Road 508, Alvarado, Texas 76009, on the north side of Cummings Road within Johnson County. A legal description of the land is included here:

FIRST TRACT: A part of the David Mitchell Survey, in Johnson County, Texas, and more particularly described as follows: Beginning at a stake in the South boundary line of said survey and about 547 varas N. 60 E. from the S.W. corner thereof; Thence N. 60 E. with said S. boundary line 457 vrs. to stake for corner; Thence N 30 W. 990 vrs. to stake for corner; Thence S. 60 W. 457 vrs. to a stake; the N. E. corner of a 40 acre tract of land heretofore conveyed by J. M. and J. E. Stout to J. T. and J. D. Snodgrass October 25, 1893. The same being the N.W. corner of this tract hereby conveyed; Thence S. 30 E. with their E. boundary line 990 vrs to stake in S. boundary line of said D. Mitchell Survey, the S. E. corner of said Snodgrass tract and the place of beginning.

SECOND TRACT: 70 acres of land out of the David Mitchell and Hiram Lewis Surveys, in Johnson County, Texas, and Beginning at a stake in road, the N. W. corner of the John Snodgrass 160 acre tract out of said surveys; same being the N. E. corner of the John Ezell tract out of the H. Lewis Survey; Thence N. 60 E. 293 vrs. to the N. E. corner of the H. Lewis Survey; Thence S. 30 E. 300 vrs. to stake for corner in the East line of Lewis Survey; Thence N. 60 E. 547 vrs. to stake for corner, to the N. E. corner of the Snodgrass 160 acre tract, and the N. W. corner of an 80 acre tract purchased by Snodgrass from Shropshire; Thence S. 30 E. 363.4 vrs. to an iron stake for corner; Thence S. 60 W. 844 vrs. to an iron stake for corner; in the west line of the Snodgrass 160 acre tract; Thence N. 30 W. 613.4 vrs. to the place of beginning.

SAVE AND EXCEPT FROM THE ABOVE DESCRIBED FIRST TRACT AND SECOND TRACT, THE FOLLOWING DESCRIBED PROPERTY:

(A) 70 acres of land of which 35.7 acres is in the Lewis Survey and 34.3 acres is in the Mitchell Survey, being further described in Warranty Deed from William Roy Anderson et ux, Ella Jane Anderson to Robert A. Hughey et ux, Sylvia Hughey, dated March 1, 1963 and recorded in [Volume 455, Page 230](#) of the Deed Records of Johnson County, Texas; and

(B) 10 acres of land out of the David Mitchell Survey, Abstract No. 586, Patent No. 372, Volume 11, being further described in Warranty Deed from William Roy Anderson et ux, Ella Jane Anderson to Robert A. Hughey et ux, Sylvia Hughey, dated January 13, 1964 and recorded in [Volume 466, Page 51](#) of the Deed Records of Johnson County, Texas.

THIRD TRACT: Beginning at a stake in road, the S. W. corner of said Snodgrass 160 acre tract, being also the S. E. corner of the John Ezell tract out of the H. Lewis Survey, being in the South line of said Lewis Survey; Thence N. 60 E. 297 vrs. to a stake for corner, being the S. E. corner of said Lewis Survey; Thence S. 30 E. 70 vrs. to a stake for corner same being the S. W. corner of the D. Mitchell Survey; Thence N. 60 E. 547 vrs. to an iron stake for corner, same being the S. E. corner of the Snodgrass 160 acre tract, and the S. W. corner of 80 acres conveyed to Snodgrass by Shropshire; Thence N. 30 W. with the E. line of said 160 acres 626.6 vrs. to an iron stake for corner; Thence S. 60 W. 844 vrs. to an iron stake for corner in the West line of said 160 acres; Thence S. 30 E. 556.6 vrs. to the place of beginning, containing 90 acres of land.

Requirement

We estimate needing 975,000 gallons per day of wastewater service at full build out (including additional properties in the area) with an initial delivery date of 18 months for the first phase of development.

Questions

1. Do you have current capacity, or are you willing to expand, to serve the wastewater required? Please respond with either "Yes" or "No".

2. If you can serve this development, what is the nearest connection location? Please provide address, coordinate, or cross streets that are nearest to the development.

3. If you must expand to provide service to this development, do you have an expected timeframe of when this will be done?

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Inquiries

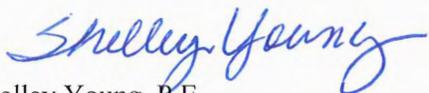
If you have any questions, please contact us by phone or mail at the above address and phone number. If you prefer email, please contact me at syoung@waterengineers.com.

Denial of Service

If we do not receive a response within 30 days of mailing this letter, we will assume this is a denial of service, and no other action or response is due on your part.

Thank you for your feedback.

Sincerely,
WATERENGINEERS, INC.



Shelley Young, P.E.

Encl: As noted

From: Michelle McCullough <mmccullough@burlesontx.com>
Sent: Tuesday, August 16, 2022 8:32 AM
To: syoun@waterengineers.com
Cc: Kevin North
Subject: Request for Sanitary Sewer Service
Attachments: 0400_001.pdf

Ms. Young –

The City of Burleson has received a second request for service for land that is approximately 165 acres located at 7601 CR 508, Alvarado, Texas. Upon receipt of the first request, your company was notified that this area was not within the City of Burleson's CCN and, therefore, service is unavailable. As you can see from the interactive map from the Public Utility Commission's site below, the area circled in pink is the approximate location of the subject property which is located outside of the City's CCN boundary.

Please let me know if you have any other questions.

WATERENGINEERS, INC.

WATER & WASTEWATER TREATMENT CONSULTANTS

17230 HUFFMEISTER ROAD, SUITE A~CYPRESS, TEXAS 77429-1643

TEL: 281-373-0500 FAX: 281-373-1113

July 22, 2022

City of Alvarado
104 West College Street
Alvarado, Texas 76009

Certified Mail 7020 3160 0000 9959 2993

Re: Wastewater Service - WQ0010567002 and CCN No. 20360

Dear Permittee,

We are supporting the residential development of a ~165-acre parcel of land at 7601 County Road 508, Alvarado, Texas 76009 (see attached map), within the ETJ of the City of Alvarado. Currently, we are working to secure utilities at this site, including sanitary sewer service.

We noticed that you have a TPDES permitted discharge point and a sewer CCN within 3 miles from the proposed development. We are requesting sanitary sewer service from you for this proposed development. We respectfully request your feedback and return of this letter in the return envelope provided.

Site Boundary

The land is approximately 165 acres located at 7601 County Road 508, Alvarado, Texas 76009, on the north side of Cummings Road within Johnson County. A legal description of the land is included here:

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SECOND TRACT: 70 acres of land out of the David Mitchell and Hiram Lewis Surveys, in Johnson County, Texas, and Beginning at a stake in road, the N. W. corner of the John Snodgrass 160 acre tract out of said surveys; same being the N. E. corner of the John Ezell tract out of the H. Lewis Survey; Thence N. 60 E. 293 vrs. to the N. E. corner of the H. Lewis Survey; Thence S. 30 E. 300 vrs. to stake for corner in the East line of Lewis Survey; Thence N. 60 E. 547 vrs. to stake for corner, to the N. E. corner of the Snodgrass 160 acre tract, and the N. W. corner of an 80 acre tract purchased by Snodgrass from Shropshire; Thence S. 30 E. 363.4 vrs. to an iron stake for corner; Thence S. 60 W. 844 vrs. to an iron stake for corner; in the west line of the Snodgrass 160 acre tract; Thence N. 30 W. 613.4 vrs. to the place of beginning.

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Requirement

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Inquiries

If you have any questions, please contact us by phone or mail at the above address and phone number. If you prefer email, please contact me at syoung@waterengineers.com.

Denial of Service

If we do not receive a response within 30 days of mailing this letter, we will assume this is a denial of service, and no other action or response is due on your part.

Thank you for your feedback.

Sincerely,
WATERENGINEERS, INC.



Shelley Young, P.E.

Encl: As noted

WATERENGINEERS, INC.

WATER & WASTEWATER TREATMENT CONSULTANTS
17230 HUFFMEISTER ROAD, SUITE A~CYPRESS, TEXAS 77429-1643
TEL: 281-373-0500 FAX: 281-373-1113

July 22, 2022

Alvarado I.S.D.
104 West College Street
Alvarado, Texas 76009

Certified Mail 7021 2720 0001 0352 0118

Re: Wastewater Service - WQ0014101001

Dear Permittee,

We are supporting the residential development of a ~165-acre parcel of land at 7601 County Road 508, Alvarado, Texas 76009 (see attached map), within the ETJ of the City of Alvarado. Currently, we are working to secure utilities at this site, including sanitary sewer service.

We noticed that you have a TPDES permitted discharge point within 3 miles from the proposed development. We are requesting sanitary sewer service from you for this proposed development. We respectfully request your feedback and return of this letter in the return envelope provided.

Site Boundary

The land is approximately 165 acres located at 7601 County Road 508, Alvarado, Texas 76009, on the north side of Cummings Road within Johnson County. A legal description of the land is included here:

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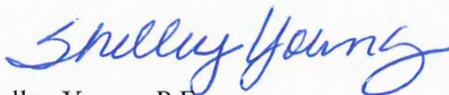
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Sincerely,
WATERENGINEERS, INC.



Shelley Young, P.E.

Encl: As noted

WATERENGINEERS, INC.

WATER & WASTEWATER TREATMENT CONSULTANTS
17230 HUFFMEISTER ROAD, SUITE A~CYPRESS, TEXAS 77429-1643
TEL: 281-373-0500 FAX: 281-373-1113

July 22, 2022

Pool Brothers LLC
P. O. Box 2196
Burlson, TX 76097

Certified Mail 7020 3160 0000 9959 3020

Re: Wastewater Service - WQ0015611001

Dear Permittee,

We are supporting the residential development of a ~165-acre parcel of land at 7601 County Road 508, Alvarado, Texas 76009 (see attached map), within the ETJ of the City of Alvarado. Currently, we are working to secure utilities at this site, including sanitary sewer service.

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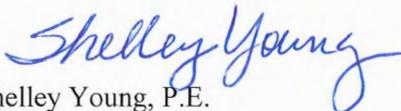
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Sincerely,
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Shelley Young, P.E.

Encl: As noted



WATERENGINEERS, INC.
WATER & WASTEWATER TREATMENT CONSULTANTS
17230 HUFFMEISTER ROAD, SUITE A~CYPRESS, TEXAS 77429-1643
TEL: 281-373-0500 FAX: 281-373-1113

July 22, 2022

Johnson County Pipe, Inc.
800 County Road 209
Alvarado, Texas 76009

Certified Mail 7020 3160 0000 9959 3013

Re: Wastewater Service - WQ0015411001

Dear Permittee,

We are supporting the residential development of a ~165-acre parcel of land at 7601 County Road 508, Alvarado, Texas 76009 (see attached map), within the ETJ of the City of Alvarado. Currently, we are working to secure utilities at this site, including sanitary sewer service.

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Inquiries

If you have any questions, please contact us by phone or mail at the above address and phone number. If you prefer email, please contact me at syoung@waterengineers.com.

Denial of Service

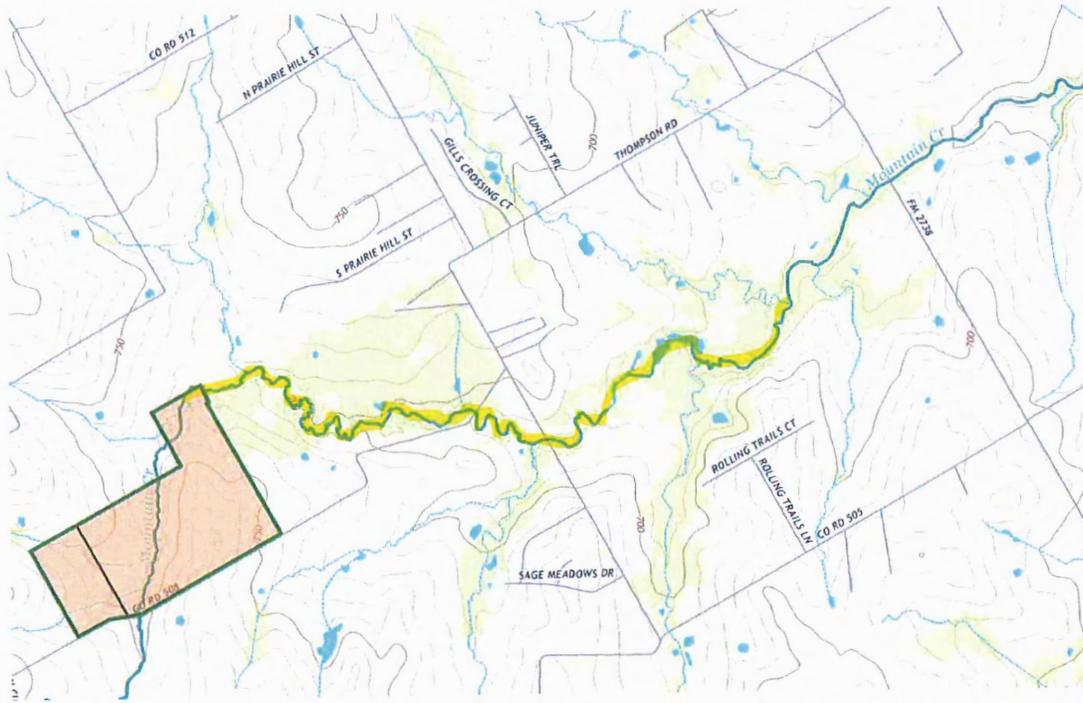
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Thank you for your feedback.

Sincerely,
WATERENGINEERS, INC.


Shelley Young, P.E.

Encl: As noted



ATTACHMENT TECH.06

Development Schedule

(Reference Technical Report Page 21, Question 1A)

INDIE CATCH, LLC
 INDIE CATCH WASTEWATER TREATMENT PLANT
 WQ00 NEW

DEVELOPMENT SCHEDULE

YEAR	NUMBER OF ESFC CONNECTIONS		GALLONS TO WWTP	
	ANNUAL	TOTAL		
End 2024	100	100	25000	0.075 mgd WWTP constructed by beginning of 2024
End 2025	100	200	45000	
End 2026	100	300	67500	0.200 mgd WWTP begins construction in 2026
End 2027	100	400	90000	
End 2028	100	500	112500	
End 2029	100	600	135000	
End 2030	100	700	157500	
End 2031	50	750	168750	If adjacent lands have been acquired
2032				0.975 mgd WWTP begins construction in 2032

ATTACHMENT TECH.07

FEMA Flood Map

(Reference Technical Report Page 25, Question 5A)

