

Technical Package Cover Page

This file contains the following documents:

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

Section 15. Plain Language Summary (Instructions Page 40)

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

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

DOMESTIC WASTEWATER

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application. Hurst Creek Municipal Utility District (CN600642748) operates Hurst Creek MUD Wastewater Treatment Plant RN101614063. a municipal wastewater treatment plant. The facility is located at 2401 Lakeway Boulevard, in The Hills, Travis County, Texas 78738.

This is for a renewal and minor amendment to dispose a daily average flow not to exceed 500,000 gallons per day of treated domestic wastewater via surface irrigation with a minimum area of 181 acres. This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain 5 mg/L BOD5, 10 mg/L TSS, and 2 mg/L P.Domestic wastewater is treated by an activated sludge process plant using bar screens, aeration basins, final clarifiers, aerobic sludge digester/holding tanks, chlorine contact chambers and dual media filters.

PLANTILLA EN ESPAÑOL PARA SOLICITUDES NUEVAS/RENOVACIONES/ENMIENDAS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



NOTICE OF RECEIPT OF APPLICATION AND INTENT TO OBTAIN WATER QUALITY PERMIT RENEWAL

PERMIT NO. WQ0012215001

APPLICATION. Hurst Creek Municipal Utility District, 102 Trophy Drive, The Hills, Texas 78738, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Land Application Permit (TLAP) No. WQ0012215001 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 500,000 gallons per day via surface irrigation on 181 acres of golf course land. The domestic wastewater treatment facility and disposal site are located at 2401 Lakeway Boulevard, in Travis County, Texas 78738. TCEQ received this application on July 18, 2024. The permit application will be available for viewing and copying at Hurst Creek Municipal Utility District, 102 Trophy Drive, The Hills, in Travis County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: <u>https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications</u>. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.983055,30.356944&level=18

ADDITIONAL NOTICE. TCEQ's Executive Director has determined the application is administratively complete and will conduct a technical review of the application. After technical review of the application is complete, the Executive Director may prepare a draft permit and will issue a preliminary decision on the application. **Notice of the Application and Preliminary Decision will be published and mailed to those who are on the county-wide mailing list and to those who are on the mailing list for this application. That notice will contain the deadline for submitting public comments.**

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

OPPORTUNITY FOR A CONTESTED CASE HEARING. After the deadline for submitting public comments, the Executive Director will consider all timely comments and prepare a response to all relevant and material, or significant public comments. **Unless the application is directly referred for a contested case hearing, the response to comments, and the**

Executive Director's decision on the application, will be mailed to everyone who submitted public comments and to those persons who are on the mailing list for this application. If comments are received, the mailing will also provide instructions for requesting reconsideration of the Executive Director's decision and for requesting a contested case hearing. A contested case hearing is a legal proceeding similar to a civil trial in state district court.

TO REQUEST A CONTESTED CASE HEARING, YOU MUST INCLUDE THE FOLLOWING ITEMS IN YOUR REQUEST: your name, address, phone number; applicant's name and proposed permit number; the location and distance of your property/activities relative to the proposed facility; a specific description of how you would be adversely affected by the facility in a way not common to the general public; a list of all disputed issues of fact that you submit during the comment period and, the statement "[I/we] request a contested case hearing." If the request for contested case hearing is filed on behalf of a group or association, the request must designate the group's representative for receiving future correspondence; identify by name and physical address an individual member of the group who would be adversely affected by the proposed facility or activity; provide the information discussed above regarding the affected member's location and distance from the facility or activity; explain how and why the member would be affected; and explain how the interests the group seeks to protect are relevant to the group's purpose.

Following the close of all applicable comment and request periods, the Executive Director will forward the application and any requests for reconsideration or for a contested case hearing to the TCEQ Commissioners for their consideration at a scheduled Commission meeting.

The Commission may only grant a request for a contested case hearing on issues the requestor submitted in their timely comments that were not subsequently withdrawn. If a hearing is granted, the subject of a hearing will be limited to disputed issues of fact or mixed questions of fact and law relating to relevant and material water quality concerns submitted during the comment period.

TCEQ may act on an application to renew a permit for discharge of wastewater without providing an opportunity for a contested case hearing if certain criteria are met.

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

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

AGENCY CONTACTS AND INFORMATION. All public comments and requests must be submitted either electronically at <u>https://www14.tceq.texas.gov/epic/eComment/</u>, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Please be aware that any contact information you

provide, including your name, phone number, email address and physical address will become part of the agency's public record. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at <u>www.tceq.texas.gov/goto/pep</u>. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from Hurst Creek Municipal Utility District at the address stated above or by calling Mr. Earl Wood, General Manager, at 512-261-6281.

Issuance Date: August 6, 2024

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



NOTICE OF APPLICATION AND PRELIMINARY DECISION FOR WATER QUALITY LAND APPLICATION PERMIT FOR MUNICIPAL WASTEWATER

RENEWAL

PERMIT NO. WQ0012215001

APPLICATION AND PRELIMINARY DECISION. Hurst Creek Municipal Utility District, 102 Trophy Drive, The Hills, Texas 78738, applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of TCEQ Permit No. WQ0012215001 which authorizes the disposal of treated domestic wastewater at a daily average flow not to exceed 500,000 gallons per day via surface irrigation of 181 acres of golf course land. This permit will not authorize a discharge of pollutants into water in the state. TCEQ received this application on July 18, 2024.

The wastewater treatment facility and disposal site are located at 2401 Lakeway Boulevard, in Travis County, Texas 78738. The wastewater treatment facility and disposal site are located in the drainage basin of Lake Travis in Segment No. 1404 of the Colorado River Basin. This link to an electronic map of the site or facility's general location is provided as a public courtesy and is not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.983055,30.356944&level=18

The TCEQ Executive Director has completed the technical review of the application and prepared a draft permit. The draft permit, if approved, would establish the conditions under which the facility must operate. The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The permit application, Executive Director's preliminary decision, and draft permit are available for viewing and copying at Hurst Creek Municipal Utility District, 102 Trophy Drive, The Hills, in Travis County, Texas. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications.

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

OPPORTUNITY FOR A CONTESTED CASE HEARING. After the deadline for submitting public comments, the Executive Director will consider all timely comments and prepare a response to all relevant and material, or significant public comments. **Unless the application is directly referred for a contested case hearing, the response to comments will be mailed to everyone who submitted public comments and to those persons who are on the mailing list for this application. If comments are received, the mailing will also provide instructions for requesting a contested case hearing or reconsideration of the Executive Director's decision. A contested case hearing is a legal proceeding similar to a civil trial in a state district court.**

TO REQUEST A CONTESTED CASE HEARING, YOU MUST INCLUDE THE FOLLOWING ITEMS IN YOUR REQUEST: your name, address, phone number; applicant's name and proposed permit number; the location and distance of your property/activities relative to the proposed facility; a specific description of how you would be adversely affected by the facility in a way not common to the general public; a list of all disputed issues of fact that you submit during the comment period; and the statement "[I/we] request a contested case hearing." If the request for contested case hearing is filed on behalf of a group or association, the request must designate the group's representative for receiving future correspondence; identify by name and physical address an individual member of the group who would be adversely affected by the proposed facility or activity; provide the information discussed above regarding the affected member's location and distance from the facility or activity; explain how and why the member would be affected; and explain how the interests the group seeks to protect are relevant to the group's purpose.

Following the close of all applicable comment and request periods, the Executive Director will forward the application and any requests for reconsideration or for a contested case hearing to the TCEQ Commissioners for their consideration at a scheduled Commission meeting.

The Commission may only grant a request for a contested case hearing on issues the requestor submitted in their timely comments that were not subsequently withdrawn. If a hearing is granted, the subject of a hearing will be limited to disputed issues of fact or mixed questions of fact and law relating to relevant and material water quality concerns submitted during the comment period. TCEQ may act on an application to renew a permit for discharge of wastewater without providing an opportunity for a contested case hearing if certain criteria are met.

EXECUTIVE DIRECTOR ACTION. The Executive Director may issue final approval of the application unless a timely contested case hearing request or request for reconsideration is filed. If a timely hearing request or request for reconsideration is filed, the Executive Director will not issue final approval of the permit and will forward the application and request to the TCEQ Commissioners for their consideration at a scheduled Commission meeting.

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

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

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

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

Further information may also be obtained from Hurst Creek Municipal Utility District at the address stated above or by calling Mr. Earl Wood, General Manager, at 512-261-6281.

Issuance Date: May 1, 2025

PERMIT NO. WQ0012215001



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

<u>PERMIT TO DISCHARGE WASTES</u> under provisions of Chapter 26 of the Texas Water Code

Hurst Creek Municipal Utility District

whose mailing address is

102 Trophy Drive The Hills, Texas 78738

Nature of Business Producing Waste: Domestic wastewater treatment operation, SIC Code 4952.

General Description and Location of Waste Disposal System:

Description: The Hurst Creek Municipal Utility District Wastewater Treatment Facility consists of an activated sludge process plant using complete mix mode. Treatment units include a bar screen, two aeration basins, two final clarifiers, two sludge holding tanks, two filters and two chlorine contact chambers. The permittee is authorized to dispose of treated domestic wastewater effluent at a daily average flow not to exceed 0.50 million gallons per day (MGD) via surface irrigation of 181 acres of non-public access golf course land. The facility includes a storage pond with a total surface area of 9.0 acres and total capacity of 138 acre-feet for storage of treated effluent prior to irrigation. Application rates to the irrigated land shall not exceed 4.5 acre-feet per year per acre irrigated. The irrigated crops include bermuda grass.

Location: The wastewater treatment facility and disposal site are located at 2401 Lakeway Boulevard, in Travis County, Texas 78738. (See Attachment A.)

Drainage Area: The wastewater treatment facility and disposal site are located in the drainage basin of Lake Travis in Segment No. 1404 of the Colorado River Basin. No discharge of pollutants into water in the state is authorized by this permit.

This permit and the authorization contained herein shall expire at midnight, **ten years from the date of issuance**.

ISSUED DATE:

This is a renewal of Permit No. WQ0012215001 issued on January 13, 2015.

For the Commission

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Conditions of the Permit: No discharge of pollutants into water in the state is authorized.

A. Effluent Limitations

Character:	Treated Domestic Sewage Effluent
<u>Volume</u> :	Daily Average Flow – 0.50 MGD from the treatment system
<u>Quality</u> :	The following effluent limitations are required:

	Effluent Concentrations	
	(Not to Exceed)	
	Daily Single	
<u>Parameter</u>	<u>Average</u> <u>Grab</u>	
	mg/l mg/l	
Biochemical Oxygen Demand (5-day)	5 30	
Total Suspended Solids	10 35	
Total Phosphorus	2 15	

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units.

The effluent shall be chlorinated in a chlorine contact chamber to a residual of 1.0 mg/l with a minimum detention time of 20 minutes.

B. <u>Monitoring Requirements</u>:

<u>Parameter</u>	<u>Monitoring Frequency</u>	<u>Sample Type</u>
Flow	Continuous	Totalizing Meter
Biochemical Oxygen	One/week	Grab
Demand (5-day) Total Suspended Solids Total Phosphorus pH Total Chlorine Residual	One/week One/week Two/month Daily	Grab Grab Grab Grab

The monitoring shall be done after the final treatment unit and prior to storage of the treated effluent. If the effluent is land applied directly from the treatment system, monitoring shall be done after the final treatment unit and prior to land application. These records shall be maintained on a monthly basis and be available at the plant site for inspection by authorized representatives of the Commission for at least three years.

STANDARD PERMIT CONDITIONS

This permit is granted in accordance with the Texas Water Code and the rules and other Orders of the Commission and the laws of the State of Texas.

DEFINITIONS

All definitions in Section 26.001 of the Texas Water Code and 30 TAC Chapter 305 shall apply to this permit and are incorporated by reference. Some specific definitions of words or phrases used in this permit are as follows:

- 1. Flow Measurements
 - a. Daily average flow the arithmetic average of all determinations of the daily flow within a period of one calendar month. The daily average flow determination shall consist of determinations made on at least four separate days. If instantaneous measurements are used to determine the daily flow, the determination shall be the arithmetic average of all instantaneous measurements taken during that month. Daily average flow determinations on days of discharge.
 - b. Annual average flow the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months. The annual average flow determination shall consist of daily flow volume determinations made by a totalizing meter, charted on a chart recorder and limited to major domestic wastewater discharge facilities with a 1 million gallons per day or greater permitted flow.
 - c. Instantaneous flow the measured flow during the minimum time required to interpret the flow measuring device.
- 2. Concentration Measurements
 - a. Daily average concentration the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar month, consisting of at least four separate representative measurements.
 - i. For domestic wastewater treatment plants When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values in the previous four consecutive month period consisting of at least four measurements shall be utilized as the daily average concentration.
 - ii. For all other wastewater treatment plants When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values taken during the month shall be utilized as the daily average concentration.
 - b. 7-day average concentration the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar week, Sunday through Saturday.
 - c. Daily maximum concentration the maximum concentration measured on a single day, by the sample type specified in the permit, within a period of one calendar month.

- 3. Sample Type
 - a. Composite sample For domestic wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (a). For industrial wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (b).
 - b. Grab sample an individual sample collected in less than 15 minutes.
- 4. Treatment Facility (facility) wastewater facilities used in the conveyance, storage, treatment, recycling, reclamation and/or disposal of domestic sewage, industrial wastes, agricultural wastes, recreational wastes, or other wastes including sludge handling or disposal facilities under the jurisdiction of the Commission.
- 5. The term "sewage sludge" is defined as solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in 30 TAC Chapter 312. This includes the solids which have not been classified as hazardous waste separated from wastewater by unit processes.
- 6. The term "biosolids" is defined as sewage sludge that has been tested or processed to meet Class A, Class AB, or Class B pathogen standards in 30 TAC Chapter 312 for beneficial use.
- 7. Bypass the intentional diversion of a waste stream from any portion of a treatment facility.

MONITORING REQUIREMENTS

1. Monitoring Requirements

Monitoring results shall be collected at the intervals specified in the permit. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall conduct effluent sampling in accordance with 30 TAC §§ 319.4 - 319.12.

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

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

- b. All laboratory tests submitted to demonstrate compliance with this permit must meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.
- 3. Records of Results
 - a. Monitoring samples and measurements shall be taken at times and in a manner so as to be representative of the monitored activity.
 - b. Except for records of monitoring information required by this permit related to the permittee's sewage sludge or biosolids use and disposal activities, which shall be retained for a period of at least five years, monitoring and reporting records, including strip charts and records of calibration and maintenance, copies of all records required by this permit, and records of all data used to complete the application for this permit shall be retained at the facility site, or shall be readily available for review by a TCEQ representative for a period of three years from the date of the record or sample, measurement, report, or application. This period shall be extended at the request of the Executive Director.
 - c. Records of monitoring activities shall include the following:
 - i. date, time and place of sample or measurement;
 - ii. identity of individual who collected the sample or made the measurement.
 - iii. date and time of analysis;
 - iv. identity of the individual and laboratory who performed the analysis;
 - v. the technique or method of analysis; and
 - vi. the results of the analysis or measurement and quality assurance/quality control records.

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

4. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit using approved analytical methods as specified above, all results of such monitoring shall be included in determining compliance with permit requirements.

5. Calibration of Instruments

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

6. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date to the Regional Office and the Enforcement Division (MC 224).

- 7. Noncompliance Notification
 - a. In accordance with 30 TAC § 305.125(9), any noncompliance which may endanger human health or safety, or the environment shall be reported by the permittee to the TCEQ. Except as allowed by 30 TAC § 305.132, report of such information shall be provided orally or by facsimile transmission (FAX) to the Regional Office within 24 hours of becoming aware of the noncompliance. A written submission of such information shall also be provided by the permittee to the Regional Office and the Enforcement Division (MC 224) within five working days of becoming aware of the noncompliance. The written submission shall contain a description of the noncompliance and its cause; the potential danger to human health or safety, or the environment; the period of noncompliance, including exact dates and times; if the noncompliance has not been corrected, the time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effects.
 - b. The following violations shall be reported under Monitoring and Reporting Requirement 7.a.:
 - i. Unauthorized discharges as defined in Permit Condition 2(g).
 - ii. Any unanticipated bypass which exceeds any effluent limitation in the permit.
 - c. In addition to the above, any effluent violation which deviates from the permitted effluent limitation by more than 40% shall be reported by the permittee in writing to the Regional Office and the Enforcement Division (MC 224) within 5 working days of becoming aware of the noncompliance.
 - d. Any noncompliance other than that specified in this section, or any required information not submitted or submitted incorrectly, shall be reported to the Enforcement Division (MC 224) as promptly as possible.
- 8. In accordance with the procedures described in 30 TAC §§ 35.301 35.303 (relating to Water Quality Emergency and Temporary Orders) if the permittee knows in advance of the need for a bypass, it shall submit prior notice by applying for such authorization.
- 9. Changes in Discharges of Toxic Substances

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

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

- i. One hundred micrograms per liter (100 μ g/L);
- ii. Two hundred micrograms per liter (200 μ g/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 μ g/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
- iii. Five (5) times the maximum concentration value reported for that pollutant in the permit application; or
- iv. The level established by the TCEQ.
- b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - i. Five hundred micrograms per liter (500 μ g/L);
 - ii. One milligram per liter (1 mg/L) for antimony;
 - iii. Ten (10) times the maximum concentration value reported for that pollutant in the permit application; or
 - iv. The level established by the TCEQ.

10. Signatories to Reports

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

PERMIT CONDITIONS

- 1. General
 - a. When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in an application or in any report to the Executive Director, it shall promptly submit such facts or information.
 - b. This permit is granted on the basis of the information supplied and representations made by the permittee during action on an application, and relying upon the accuracy and completeness of that information and those representations. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked, in whole or in part, in accordance with 30 TAC Chapter 305, Subchapter D, during its term for good cause including, but not limited to, the following:
 - i. Violation of any terms or conditions of this permit;
 - ii. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
 - iii. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.
 - c. The permittee shall furnish to the Executive Director, upon request and within a reasonable time, any information to determine whether cause exists for amending, revoking, suspending or terminating the permit. The permittee shall also furnish to the Executive Director, upon request, copies of records required to be kept by the permit.
- 2. Compliance

- a. Acceptance of the permit by the person to whom it is issued constitutes acknowledgment and agreement that such person will comply with all the terms and conditions embodied in the permit, and the rules and other orders of the Commission.
- b. The permittee has a duty to comply with all conditions of the permit. Failure to comply with any permit condition constitutes a violation of the permit and the Texas Water Code or the Texas Health and Safety Code, and is grounds for enforcement action, for permit amendment, revocation or suspension, or for denial of a permit renewal application or an application for a permit for another facility.
- c. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.
- d. The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal or other permit violation which has a reasonable likelihood of adversely affecting human health or the environment.
- e. Authorization from the Commission is required before beginning any change in the permitted facility or activity that may result in noncompliance with any permit requirements.
- f. A permit may be amended, suspended and reissued, or revoked for cause in accordance with 30 TAC §§ 305.62 and 305.66 and Texas Water Code Section 7.302. The filing of a request by the permittee for a permit amendment, suspension and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- g. There shall be no unauthorized discharge of wastewater or any other waste. For the purpose of this permit, an unauthorized discharge is considered to be any discharge of wastewater into or adjacent to water in the state at any location not permitted as an outfall or otherwise defined in the Special Provisions section of this permit.
- h. The permittee is subject to administrative, civil, and criminal penalties, as applicable, under Texas Water Code §§ 7.051 7.075 (relating to Administrative Penalties), 7.101 7.111 (relating to Civil Penalties), and 7.141 7.202 (relating to Criminal Offenses and Penalties).
- 3. Inspections and Entry
 - a. Inspection and entry shall be allowed as prescribed in the Texas Water Code Chapters 26, 27, and 28, and Texas Health and Safety Code Chapter 361.
 - b. The members of the Commission and employees and agents of the Commission are entitled to enter any public or private property at any reasonable time for the purpose of inspecting and investigating conditions relating to the quality of water in the state or the compliance with any rule, regulation, permit or other order of the Commission. Members, employees, or agents of the Commission and Commission contractors are entitled to enter public or private property at any reasonable time to investigate or monitor or, if the responsible party is not responsive or there is an immediate danger to

public health or the environment, to remove or remediate a condition related to the quality of water in the state. Members, employees, Commission contractors, or agents acting under this authority who enter private property shall observe the establishment's rules and regulations concerning safety, internal security, and fire protection, and if the property has management in residence, shall notify management or the person then in charge of his presence and shall exhibit proper credentials. If any member, employee, Commission contractor, or agent is refused the right to enter in or on public or private property under this authority, the Executive Director may invoke the remedies authorized in Texas Water Code Section 7.002. The statement above, that Commission entry shall occur in accordance with an establishment's rules and regulations concerning safety, internal security, and fire protection, is not grounds for denial or restriction of entry to any part of the facility, but merely describes the Commission's duty to observe appropriate rules and regulations during an inspection.

- 4. Permit Amendment and/or Renewal
 - a. The permittee shall give notice to the Executive Director as soon as possible of any planned physical alterations or additions to the permitted facility if such alterations or additions would require a permit amendment or result in a violation of permit requirements. Notice shall also be required under this paragraph when:
 - i. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements in Monitoring and Reporting Requirements No. 9;
 - ii. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
 - b. Prior to any facility modifications, additions, or expansions that will increase the plant capacity beyond the permitted flow, the permittee must apply for and obtain proper authorization from the Commission before commencing construction.
 - c. The permittee must apply for an amendment or renewal at least 180 days prior to expiration of the existing permit in order to continue a permitted activity after the expiration date of the permit. If an application is submitted prior to the expiration date of the permit, the existing permit shall remain in effect until the application is approved, denied, or returned. If the application is returned or denied, authorization to continue such activity shall terminate upon the effective date of the action. If an application is not submitted prior to the expiration date of the permit, the permit shall expire and authorization to continue such activity shall terminate.
 - d. Prior to accepting or generating wastes which are not described in the permit application or which would result in a significant change in the quantity or quality of the existing discharge, the permittee must report the proposed changes to the Commission. The permittee must apply for a permit amendment reflecting any necessary changes in permit conditions, including effluent limitations for pollutants not identified and limited by this permit.

- e. In accordance with the Texas Water Code § 26.029(b), after a public hearing, notice of which shall be given to the permittee, the Commission may require the permittee, from time to time, for good cause, in accordance with applicable laws, to conform to new or additional conditions.
- 5. Permit Transfer
 - a. Prior to any transfer of this permit, Commission approval must be obtained. The Commission shall be notified in writing of any change in control or ownership of facilities authorized by this permit. Such notification should be sent to the Applications Review and Processing Team (MC 148) of the Water Quality Division.
 - b. A permit may be transferred only according to the provisions of 30 TAC § 305.64 (relating to Transfer of Permits) and 30 TAC § 50.133 (relating to Executive Director Action on Application or WQMP update).
- 6. Relationship to Hazardous Waste Activities

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

7. Property Rights

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

8. Permit Enforceability

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

9. Relationship to Permit Application

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

- 10. Notice of Bankruptcy.
 - a. Each permittee shall notify the Executive Director, in writing, immediately following the filing of a voluntary or involuntary petition for bankruptcy under any chapter of Title 11 (Bankruptcy) of the United States Code (11 USC) by or against:
 - i. the permittee;
 - ii. an entity (as that term is defined in 11 USC, § 101(14)) controlling the permittee or listing the permit or permittee as property of the estate; or
 - iii. an affiliate (as that term is defined in 11 USC, § 101(2)) of the permittee.

- b. This notification must indicate:
 - i. the name of the permittee;
 - ii. the permit number(s);
 - iii. the bankruptcy court in which the petition for bankruptcy was filed; and
 - iv. the date of filing of the petition.

OPERATIONAL REQUIREMENTS

- 1. The permittee shall at all times ensure that the facility and all of its systems of collection, treatment, and disposal are properly operated and maintained. This includes, but is not limited to, the regular, periodic examination of wastewater solids within the treatment plant by the operator in order to maintain an appropriate quantity and quality of solids inventory as described in the various operator training manuals and according to accepted industry standards for process control. Process control, maintenance, and operations records shall be retained at the facility site, or shall be readily available for review by a TCEQ representative, for a period of three years.
- 2. Upon request by the Executive Director, the permittee shall take appropriate samples and provide proper analysis in order to demonstrate compliance with Commission rules. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall comply with all applicable provisions of 30 TAC Chapter 312 concerning sewage sludge or biosolids use and disposal and 30 TAC §§ 319.21 319.29 concerning the discharge of certain hazardous metals.
- 3. Domestic wastewater treatment facilities shall comply with the following provisions:
 - a. The permittee shall notify the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, in writing, of any facility expansion at least 90 days prior to conducting such activity.
 - b. The permittee shall submit a closure plan for review and approval to the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, for any closure activity at least 90 days prior to conducting such activity. Closure is the act of permanently taking a waste management unit or treatment facility out of service and includes the permanent removal from service of any pit, tank, pond, lagoon, surface impoundment and/or other treatment unit regulated by this permit.
- 4. The permittee is responsible for installing prior to plant start-up, and subsequently maintaining, adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures by means of alternate power sources, standby generators, and/or retention of inadequately treated wastewater.
- 5. Unless otherwise specified, the permittee shall provide a readily accessible sampling point and, where applicable, an effluent flow measuring device or other acceptable means by which effluent flow may be determined.
- 6. The permittee shall remit an annual water quality fee to the Commission as required by 30 TAC Chapter 21. Failure to pay the fee may result in revocation of this permit under Texas Water Code § 7.302(b)(6).
- 7. Documentation

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

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

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

- b. The plans and specifications for domestic sewage collection and treatment works associated with any domestic permit must be approved by the Commission and failure to secure approval before commencing construction of such works or making a discharge is a violation of this permit and each day is an additional violation until approval has been secured.
- c. Permits for domestic wastewater treatment plants are granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment and disposal systems. The Commission reserves the right to amend any domestic wastewater permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, should such be developed; to require the delivery of the wastes authorized to be collected in, treated by or discharged from said system, to such area-wide system; or to amend this permit in any

other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment or disposal system.

- 9. Domestic wastewater treatment plants shall be operated and maintained by sewage plant operators holding a valid certificate of competency at the required level as defined in 30 TAC Chapter 30.
- 10. Facilities which generate industrial solid waste as defined in 30 TAC § 335.1 shall comply with these provisions:
 - a. Any solid waste, as defined in 30 TAC § 335.1 (including but not limited to such wastes as garbage, refuse, sludge from a waste treatment, water supply treatment plant or air pollution control facility, discarded materials, discarded materials to be recycled, whether the waste is solid, liquid, or semisolid), generated by the permittee during the management and treatment of wastewater, must be managed in accordance with all applicable provisions of 30 TAC Chapter 335, relating to Industrial Solid Waste Management.
 - b. Industrial wastewater that is being collected, accumulated, stored, or processed before discharge through any final discharge outfall, specified by this permit, is considered to be industrial solid waste until the wastewater passes through the actual point source discharge and must be managed in accordance with all applicable provisions of 30 TAC Chapter 335.
 - c. The permittee shall provide written notification, pursuant to the requirements of 30 TAC § 335.8(b)(1), to the Corrective Action Section (MC 127) of the Remediation Division informing the Commission of any closure activity involving an Industrial Solid Waste Management Unit, at least 90 days prior to conducting such an activity.
 - d. Construction of any industrial solid waste management unit requires the prior written notification of the proposed activity to the Registration and Reporting Section (MC 129) of the Permitting and Remediation Support Division. No person shall dispose of industrial solid waste, including sludge or other solids from wastewater treatment processes, prior to fulfilling the deed recordation requirements of 30 TAC § 335.5.
 - e. The term "industrial solid waste management unit" means a landfill, surface impoundment, waste-pile, industrial furnace, incinerator, cement kiln, injection well, container, drum, salt dome waste containment cavern, or any other structure vessel, appurtenance, or other improvement on land used to manage industrial solid waste.
 - f. The permittee shall keep management records for all sludge (or other waste) removed from any wastewater treatment process. These records shall fulfill all applicable requirements of 30 TAC Chapter 335 and must include the following, as it pertains to wastewater treatment and discharge:
 - i. Volume of waste and date(s) generated from treatment process;
 - ii. Volume of waste disposed of on-site or shipped off-site;
 - iii. Date(s) of disposal;

- iv. Identity of hauler or transporter;
- v. Location of disposal site; and
- vi. Method of final disposal.

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

11. For industrial facilities to which the requirements of 30 TAC Chapter 335 do not apply, sludge and solid wastes, including tank cleaning and contaminated solids for disposal, shall be disposed of in accordance with Chapter 361 of the Texas Health and Safety Code.

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SLUDGE PROVISIONS

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

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

A. General Requirements

- 1. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 312 and all other applicable state and federal regulations in a manner that protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present in the sludge or biosolids.
- 2. In all cases, if the person (permit holder) who prepares the sewage sludge or biosolids supplies the sewage sludge or biosolids to another person for land application use or to the owner or lease holder of the land, the permit holder shall provide necessary information to the parties who receive the sludge or biosolids to assure compliance with these regulations.
- 3. The land application of processed or unprocessed chemical toilet waste, grease trap waste, grit trap waste, milk solids, or similar non-hazardous municipal or industrial solid wastes, or any of the wastes listed in this provision combined with biosolids, WTP residuals or domestic septage is prohibited unless the grease trap waste is added at a fats, oil and grease (FOG) receiving facility as part of an anaerobic digestion process.

B. Testing Requirements

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

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

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

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

TABLE 1

* Dry weight basis

3. Pathogen Control

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

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

<u>Alternative 1</u> - The temperature of the sewage sludge that is used or disposed shall be maintained at or above a specific value for a period of time. See 30 TAC § 312.82(a)(2)(A) for specific information;

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

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

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

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

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

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

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

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

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

Alternative 1

- i. A minimum of seven random samples of the sewage sludge shall be collected within 48 hours of the time the sewage sludge is used or disposed of during each monitoring episode for the sewage sludge.
- ii. The geometric mean of the density of fecal coliform in the samples collected shall be less than either 2,000,000 MPN per gram of total solids (dry weight basis) or 2,000,000 Colony Forming Units per gram of total solids (dry weight basis).

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

- i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;
- ii. An independent Texas Licensed Professional Engineer must make a certification to the generator of a sewage sludge that the wastewater treatment facility generating the sewage sludge is designed to achieve one of the PSRP at the permitted design loading of the facility. The certification need only be repeated if the design loading of the facility is increased. The certification shall include a statement indicating the design meets all the applicable standards specified in Appendix B of 40 CFR Part 503;
- iii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;
- iv. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review; and
- v. If the sewage sludge is generated from a mixture of sources, resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the PSRP, and shall meet the certification, operation, and record keeping requirements of this paragraph.

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

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

- ii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;
- iii. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review;
- iv. The Executive Director will accept from the U.S. Environmental Protection Agency a finding of equivalency to the defined PSRP; and
- v. If the sewage sludge is generated from a mixture of sources resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the Processes to Significantly Reduce Pathogens, and shall meet the certification, operation, and record keeping requirements of this paragraph.

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

- i. Food crops with harvested parts that touch the biosolids /soil mixture and are totally above the land surface shall not be harvested for 14 months after application of biosolids.
- ii. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of biosolids when the biosolids remain the land surface for 4 months or longer prior to incorporation into the soil.
- iii. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of biosolids when the biosolids remain on the land surface for less than 4 months prior to incorporation into the soil.
- iv. Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of biosolids.
- v. Domestic livestock shall not be allowed to graze on the land for 30 days after application of biosolids.
- vi. Turf grown on land where biosolids are applied shall not be harvested for 1 year after application of the biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn.
- vii. Public access to land with a high potential for public exposure shall be restricted for 1 year after application of biosolids.

- viii. Public access to land with a low potential for public exposure shall be restricted for 30 days after application of biosolids.
- ix. Land application of biosolids shall be in accordance with the buffer zone requirements found in 30 TAC 312.44.
- 4. Vector Attraction Reduction Requirements

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

- <u>Alternative 1</u> The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38%.
- <u>Alternative 2</u> If Alternative 1 cannot be met for an anaerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge anaerobically in the laboratory in a bench-scale unit for 40 additional days at a temperature between 30° and 37° Celsius. Volatile solids must be reduced by less than 17% to demonstrate compliance.
- <u>Alternative 3</u> If Alternative 1 cannot be met for an aerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge with percent solids of two percent or less aerobically in the laboratory in a bench-scale unit for 30 additional days at 20° Celsius. Volatile solids must be reduced by less than 15% to demonstrate compliance.
- <u>Alternative 4</u> The specific oxygen uptake rate (SOUR) for sewage sludge treated in an aerobic process shall be equal to or less than 1.5 milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20° Celsius.
- <u>Alternative 5</u> Sewage sludge shall be treated in an aerobic process for 14 days or longer. During that time, the temperature of the sewage sludge shall be higher than 40° Celsius and the average temperature of the sewage sludge shall be higher than 45° Celsius.
- <u>Alternative 6</u> The pH of sewage sludge shall be raised to 12 or higher by alkali addition and, without the addition of more alkali shall remain at 12 or higher for two hours and then remain at a pH of 11.5 or higher for an additional 22 hours at the time the sewage sludge is prepared for sale or given away in a bag or other container.
- <u>Alternative 7</u> The percent solids of sewage sludge that does not contain unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 75% based on the moisture content and total solids prior to mixing with other materials. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

- <u>Alternative 8</u> The percent solids of sewage sludge that contains unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 90% based on the moisture content and total solids prior to mixing with other materials at the time the sludge is used. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.
- <u>Alternative 9</u> i. Sewage sludge shall be injected below the surface of the land.
 - ii. No significant amount of the sewage sludge shall be present on the land surface within one hour after the sewage sludge is injected.
 - iii. When sewage sludge that is injected below the surface of the land is Class A or Class AB with respect to pathogens, the biosolids shall be injected below the land surface within eight hours after being discharged from the pathogen treatment process.
- <u>Alternative 10</u>i. Biosolids applied to the land surface or placed on a surface disposal site shall be incorporated into the soil within six hours after application to or placement on the land.
 - ii. When biosolids that are incorporated into the soil is Class A or Class AB with respect to pathogens, the sewage sludge shall be applied to or placed on the land within eight hours after being discharged from the pathogen treatment process.

C. Monitoring Requirements

Toxicity Characteristic Leaching Procedure	- once during the term of this permit
(TCLP) Test	
PCBs	- once during the term of this permit

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

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

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

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

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

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

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

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

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

A. Pollutant Limits

	Table 2	
Pollutant Arsenic Cadmium Chromium Copper Lead Mercury Molybdenum Nickel Selenium Zinc		Cumulative Pollutant Loading Rate (<u>pounds per acre</u>)* 36 35 2677 1339 268 15 Report Only 375 89 2500
	Table 3	
<u>Pollutant</u> Arsenic Cadmium Chromium Copper Lead		Monthly Average Concentration (<u>milligrams per kilogram</u>)* 41 39 1200 1500 300

B. Pathogen Control

Mercury

Selenium

Nickel

Zinc

Molvbdenum

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

*Dry weight basis

17

420

2800

36

Report Only

C. Management Practices

- 1. Bulk biosolids shall not be applied to agricultural land, forest, a public contact site, or a reclamation site that is flooded, frozen, or snow-covered so that the bulk sewage sludge or biosolids enters a wetland or other waters in the State.
- 2. Bulk sewage sludge not meeting Class A biosolids requirements shall be land applied in a manner which complies with Applicability in accordance with 30 TAC §312.41 and the Management Requirements in accordance with 30 TAC § 312.44.
- 3. Bulk biosolids shall be applied at or below the agronomic rate of the cover crop.
- 4. An information sheet shall be provided to the person who receives bulk Class A or AB biosolids sold or given away. The information sheet shall contain the following information:
 - a. The name and address of the person who prepared the Class A or AB biosolids that are sold or given away in a bag or other container for application to the land.
 - b. A statement that application of the Class A or AB biosolids to the land is prohibited except in accordance with the instruction on the label or information sheet.
 - c. The annual whole sludge application rate for the sewage sludge application rate for the biosolids that does not cause any of the cumulative pollutant loading rates in Table 2 above to be exceeded, unless the pollutant concentrations in Table 3 found in Section II above are met.

D. Notification Requirements

- 1. If bulk biosolids are applied to land in a State other than Texas, written notice shall be provided prior to the initial land application to the permitting authority for the State in which the bulk biosolids are proposed to be applied. The notice shall include:
 - a. The location, by street address, and specific latitude and longitude, of each land application site.
 - b. The approximate time period bulk biosolids will be applied to the site.
 - c. The name, address, telephone number, and National Pollutant Discharge Elimination System permit number (if appropriate) for the person who will apply the bulk biosolids.
- 2. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the biosolids disposal practice.

E. Record Keeping Requirements

The documents will be retained at the facility site and/or shall be readily available for review by a TCEQ representative. The person who prepares bulk sewage sludge or a biosolids material shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative for a period of <u>five years</u>. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply.

- 1. The concentration (mg/kg) in the sludge of each pollutant listed in Table 3 above and the applicable pollutant concentration criteria (mg/kg), <u>or</u> the applicable cumulative pollutant loading rate and the applicable cumulative pollutant loading rate limit (lbs/ac) listed in Table 2 above.
- 2. A description of how the pathogen reduction requirements are met (including site restrictions for Class AB and Class B biosolids, if applicable).
- 3. A description of how the vector attraction reduction requirements are met.
- 4. A description of how the management practices listed above in Section II.C are being met.
- 5. The following certification statement:

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

- 6. The recommended agronomic loading rate from the references listed in Section II.C.3. above, as well as the actual agronomic loading rate shall be retained. The person who applies bulk biosolids shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative <u>indefinitely</u>. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply:
 - a. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii), as applicable, and to the permittee's specific sludge or biosolids treatment activities.
 - b. The location, by street address, and specific latitude and longitude, of each site on which sludge or biosolids are applied.
 - c. The number of acres in each site on which bulk sludge or biosolids are applied.
 - d. The date and time sludge or biosolids are applied to each site.
 - e. The cumulative amount of each pollutant in pounds/acre listed in Table 2 applied to each site.
 - f. The total amount of sludge applied to each site in dry tons.

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

F. Reporting Requirements

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

- 1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
- 2. Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, or sewage sludge for disposal at a monofill) and whether the material is ultimately conveyed off-site in bulk or in bags.
- 3. Results of tests performed for pollutants found in either Table 2 or 3 as appropriate for the permittee's land application practices.
- 4. The frequency of monitoring listed in Section I.C. that applies to the permittee.
- 5. Toxicity Characteristic Leaching Procedure (TCLP) results.
- 6. PCB concentration in sludge or biosolids in mg/kg.
- 7. Identity of hauler(s) and TCEQ transporter number.
- 8. Date(s) of transport.
- 9. Texas Commission on Environmental Quality registration number, if applicable.
- 10. Amount of sludge or biosolids disposal dry weight (lbs/acre) at each disposal site.
- 11. The concentration (mg/kg) in the sludge or biosolids of each pollutant listed in Table 1 (defined as a monthly average) as well as the applicable pollutant concentration criteria (mg/kg) listed in Table 3 above, or the applicable pollutant loading rate limit (lbs/acre) listed in Table 2 above if it exceeds 90% of the limit.
- 12. Level of pathogen reduction achieved (Class A, Class AB or Class B).
- 13. Alternative used as listed in Section I.B.3.(a. or b.). Alternatives describe how the pathogen reduction requirements are met. If Class B biosolids, include information on how site restrictions were met.
- 14. Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.
- 15. Vector attraction reduction alternative used as listed in Section I.B.4.

- 16. Amount of sludge or biosolids transported in dry tons/year.
- 17. The certification statement listed in either 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii) as applicable to the permittee's sludge or biosolids treatment activities, shall be attached to the annual reporting form.
- 18. When the amount of any pollutant applied to the land exceeds 90% of the cumulative pollutant loading rate for that pollutant, as described in Table 2, the permittee shall report the following information as an attachment to the annual reporting form.
 - a. The location, by street address, and specific latitude and longitude.
 - b. The number of acres in each site on which bulk biosolids are applied.
 - c. The date and time bulk biosolids are applied to each site.
 - d. The cumulative amount of each pollutant (i.e., pounds/acre) listed in Table 2 in the bulk biosolids applied to each site.
 - e. The amount of biosolids (i.e., dry tons) applied to each site.

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

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

- A. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 330 and all other applicable state and federal regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present. The permittee shall ensure that the sewage sludge or biosolids meet the requirements in 30 TAC § 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.
- B. If the permittee generates sewage sludge or biosolids and supplies that sewage sludge or biosolids to the owner or operator of a municipal solid waste landfill (MSWLF) for disposal, the permittee shall provide to the owner or operator of the MSWLF appropriate information needed to be in compliance with the provisions of this permit.
- C. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the sewage sludge or biosolids disposal practice.
- D. Sewage sludge or biosolids shall be tested once during the term of this permit in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I (Toxicity Characteristic Leaching Procedure) or other method, which receives the prior approval of the TCEQ for contaminants listed in Table 1 of 40 CFR § 261.24. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal.

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

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

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

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

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

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

G. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 11) and the Enforcement Division (MC224).

- 1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
- 2. Toxicity Characteristic Leaching Procedure (TCLP) results.
- 3. Annual sludge or biosolids production in dry tons/year.
- 4. Amount of sludge or biosolids disposed in a municipal solid waste landfill in dry tons/year.
- 5. Amount of sludge or biosolids transported interstate in dry tons/year.
- 6. A certification that the sewage sludge or biosolids meets the requirements of 30 TAC § 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.
- 7. Identity of hauler(s) and transporter registration number.
- 8. Owner of disposal site(s).
- 9. Location of disposal site(s).
- 10. Date(s) of disposal.

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

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

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

A. General Requirements

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

B. Record Keeping Requirements

- 1. For sludge or biosolids transported by an approved pipeline, the permittee must maintain records of the following:
 - a. the amount of sludge or biosolids transported;
 - b. the date of transport;
 - c. the name and TCEQ permit number of the receiving facility or facilities;
 - d. the location of the receiving facility or facilities;
 - e. the name and TCEQ permit number of the facility that generated the waste; and
 - f. copy of the written agreement between the permittee and the receiving facility to accept sludge or biosolids.
- 2. For sludge or biosolids transported by a registered transporter, the permittee must maintain records of the completed trip tickets in accordance with 30 TAC § 312.145(a)(1)-(7) and amount of sludge or biosolids transported.
- 3. The above records shall be maintained on-site on a monthly basis and shall be made available to the TCEQ upon request. These records shall be retained for at least five years.

C. Reporting Requirements

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

- 1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
- 2. the annual sludge or biosolids production;
- 3. the amount of sludge or biosolids transported;
- 4. the owner of each receiving facility;
- 5. the location of each receiving facility; and
- 6. the date(s) of disposal at each receiving facility.

TCEQ Revision 06/2020

SPECIAL PROVISIONS:

- 1. This permit is granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment, and disposal systems. The Commission reserves the right to amend this permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, if an area-wide system is developed; to require the delivery of the wastes authorized to be collected in, treated by, or discharged from the system, to an area-wide system; or to amend this permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment, or disposal system.
- 2. The permittee shall employ or contract with one or more licensed wastewater treatment facility operators or wastewater system operations companies holding a valid license or registration according to the requirements of 30 TAC Chapter 30, Occupational Licenses and Registrations, and in particular 30 TAC Chapter 30, Subchapter J, Wastewater Operators and Operations Companies.

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

- 3. The permittee shall maintain and operate the treatment facility in order to achieve optimum efficiency of treatment capability. This shall include required monitoring of effluent flow and quality as well as appropriate grounds and building maintenance.
- 4. Irrigation practices shall be designed and managed so as to prevent ponding of effluent or contamination of ground and surface waters and to prevent the occurrence of nuisance conditions in the area. The golf course or other ground cover shall be established and well maintained in the irrigation area throughout the year for effluent and nutrient uptake by the crop and to prevent pathways for effluent surfacing. Tailwater control facilities shall be provided as necessary to prevent the discharge of any effluent from the irrigated land.
- 5. Effluent shall not be applied for irrigation during rainfall events or when the ground is frozen or saturated.
- 6. The irrigated crops include Bermudagrass. Application rates to the irrigated land shall not exceed an agronomic rate of 4.5 acre-feet per acre per year. The permittee is responsible for providing equipment to determining application rates and maintaining accurate records of the volume of effluent applied. These records shall be made available for review by the Texas Commission on Environmental Quality and shall be maintained for least three years.

- 7. Holding or storage ponds shall conform to the design criteria for stabilization ponds with regard to construction and levee design and shall maintain a minimum freeboard of two feet according to 30 TAC Chapter 217, Design Criteria for Wastewater Treatment Systems.
- 8. The permittee shall obtain representative soil samples from the root zones of the land application area. Composite sampling techniques shall be used. Each composite sample shall represent no more than 80 acres with no less than 10 to 15 subsamples representing each composite sample. Subsamples shall be composited by like sampling depth, type of crop and soil type for analysis and reporting. Soil types are soils that have like topsoil or plow layer textures. These soils shall be sampled individually from 0 to 6 inches, 6 to 18 inches and 18 to 30 inches below ground level. The permittee shall sample soils in December to February of each year. Soil samples shall be analyzed within 30 days of sample collection.

The permittee shall provide annual soil analyses of the land application area according to the following table:

Parameter	Method	Minimum Analytical Level (MAL)	Reporting units
рН	2:1 (v/v) water to soil mixture		Reported to 0.1 pH units after calibration of pH meter
Electrical Conductivity	2:1 (v/v) water to soil mixture	0.01	dS/m (same as mmho/cm)
Nitrate- nitrogen	From a 1 <u>N</u> KCl soil extract	1	mg/kg (dry weight basis)
Total Kjeldahl Nitrogen (TKN)	For determination of Organic plus Ammonium Nitrogen. Procedures that use Mercury (Hg) are not acceptable.	20	mg/kg (dry weight basis)
Total Nitrogen	= TKN + nitrate-nitrogen (same as, organic-nitrogen + ammonium-nitrogen + nitrate-nitrogen)		mg/kg (dry weight basis)
Plant- available: Phosphorus	Mehlich III with inductively coupled plasma	1	mg/kg (dry weight basis)
Plant- available: Potassium	May be determined in the same Mehlich III extract with inductively coupled plasma	5	mg/kg (dry weight basis)
Amendment addition, e.g., gypsum	Recommendation from analytical laboratory		Report in <i>short</i> <i>tons/acre</i> in the year effected

A copy of this soil testing plan shall be provided to the analytical laboratory prior to sample analysis. The permittee shall submit the results of the annual soil sample analyses with copies of the laboratory reports and a map depicting the areas that have received wastewater within the permanent land application fields to the TCEQ Regional Office (MC Region 11), the Water Quality Assessment Team (MC 150), and the Compliance Monitoring Team (MC 224) of the Enforcement Division, no later than September 1st of each sampling year. If wastewater is not applied in a particular year, the permittee shall notify the same TCEQ offices and indicate that wastewater has not been applied on the approved land irrigation site(s) during that year.

- 9. The permittee shall maintain a long term contract with the owner(s) of the land application site which is authorized for use in this permit, or own the land authorized for land application of treated effluent.
- 10. The permittee shall erect adequate signs stating that the irrigation water is from a nonpotable water supply for any area where treated effluent is stored or where there exist hose bibs or faucets. Signs shall consist of a red slash superimposed over the international symbol for drinking water accompanied by the message "DO NOT DRINK THE WATER" in both English and Spanish. All piping transporting the effluent shall be clearly marked with these same signs.
- 11. Spray fixtures for the irrigation system shall be of such design that they cannot be operated by unauthorized personnel.
- 12. Irrigation with effluent shall be accomplished only when the area specified is not in use.
- 13. Permanent transmission lines shall be installed from the holding pond to each tract of land to be irrigated utilizing effluent from that pond.
- 14. **For the storage pond**: Facilities for the retention of treated or untreated wastewater shall be adequately lined to control seepage. The following methods of pond lining are acceptable:
 - a. In-situ clay soils or placed and compacted clay soils meeting the following requirements:
 - 1. More than 30% passing a No. 200 mesh sieve
 - 2. Liquid limit greater than 30%
 - 3. Plasticity index greater than 15
 - 4. A minimum thickness of 2 feet
 - b. Membrane lining with a minimum thickness of 20 mils, and an underdrain leak detection system.
 - c. An alternate method of pond lining may be utilized with prior approval from the Executive Director.

The permittee **has furnished** certification by a Texas Licensed Professional Engineer that the completed pond lining meets the appropriate criteria above.

15. The existing wastewater ponds shall be maintained and operated in a manner that prevents unauthorized discharge to water in the state and contamination of groundwater. At least once per month, the Permittee shall inspect the sides and bottom (if visible) of all

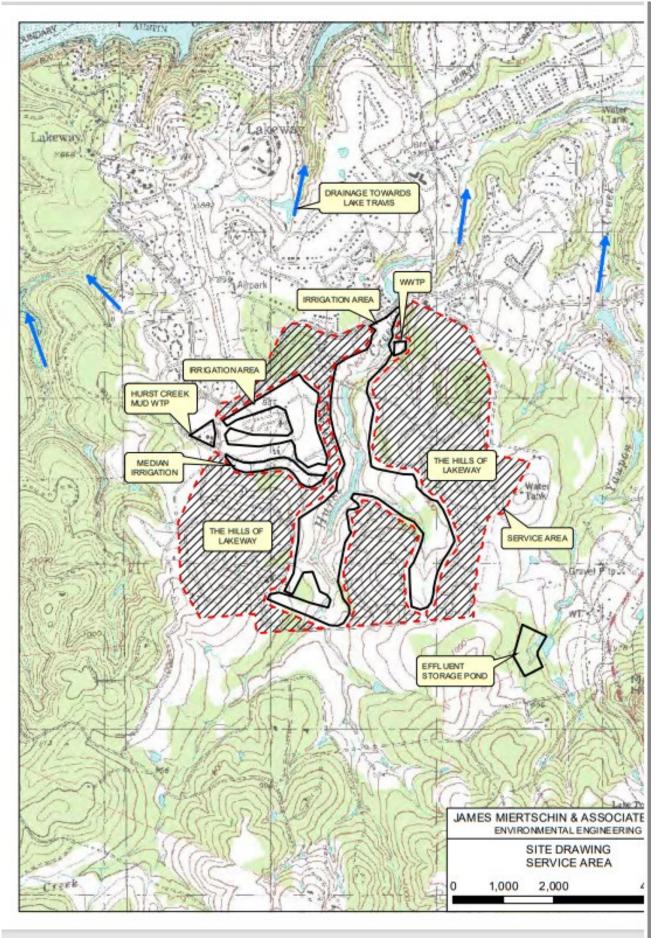
wastewater ponds for signs of damage and leakage, and any pond leak detection systems that are in service. Leaking ponds shall be removed from service, or operated in a manner to prevent discharge, until repairs are made or replacement ponds are constructed.

- 16. Any new or modified wastewater pond shall be adequately lined to control seepage in accordance with 30 TAC §217.203 and 30 TAC 309.13(d) since the facility overlies the recharge zone of an aquifer. The Permittee shall submit the liner certification for a newly-constructed or modified wastewater pond to the Water Quality Assessment Team (MC-150), the TCEQ Austin Regional Office (MC-Region 11), and the TCEQ Compliance Monitoring Section (MC-224) within 30 days of completion and prior to use. The certification shall be signed and sealed by a Texas-licensed professional engineer and include a description of how the liner meets the requirements of 30 TAC §217.203 and 30 TAC §309.13(d) since the facility is located on the recharge zone of an aquifer.
- 17. Pond liner certifications and all liner construction and repair documentation shall be maintained by the Permittee for the life of the facility and be made available for TCEQ personnel for inspection and review.
- 18. The permittee shall comply with buffer zone requirements of 30 TAC §309.13(c). A wastewater treatment plant unit, defined by 30 TAC Section §309.11(9), must be located a minimum horizontal distance of 250 ft from a private well and a minimum horizontal distance of 500 ft from a public water well site, spring, or other similar sources of public drinking water, as provided by §290.41(c)(1)(C) of this title.
- 19. The permittee shall own the property that contains the storage pond and by ownership, the permittee shall maintain a minimum buffer zone of 50 feet from the storage pond to the nearest property line.
- 20. The permittee shall provide facilities for the protection of its wastewater treatment facilities from a 100-year flood.
- 21. The economic benefits derived from operations carried out at the land disposal site shall be secondary to the proper disposal of effluent.
- 22. The effluent shall be chlorinated in a chlorine contact chamber to a residual of 1.0 mg/l with a minimum detention time of at least 20 minutes (based on peak flow). If the effluent is to be transferred to a holding pond or tank, re-chlorination prior to the effluent being delivered into the irrigation system will be required. A trace chlorine residual shall be maintained in the effluent at the point of irrigation application.
- 23. Any significant change in irrigation practices shall receive approval from the Executive Director of the Texas Natural Resource Conservation Commission.
- 24. The plans and specifications for the waste collection and treatment works and disposal system authorized by this permit must be approved pursuant to state law, and failure to secure approval before commencing construction of such works or making a discharge therefrom is a violation of this permit, and each day of discharge is an additional violation until approval has been secured.
- 25. In accordance with the March 13, 1998 permit, the permittee's storage and disposal systems may accept up to 0.1 MGD of treated effluent, which complies with this permits effluent

limitations, from another permitted treatment facility (TCEQ Permit No. WQ0013878001) located outside of the permittee's service area, if authorized by the Commission. The permittee will acquire ownership, and will accept full responsibility for storage and disposal of such transferred effluent volume, at the point where it enters the permittee's effluent storage pond. A copy of the joint venture or partnership agreement concerning commingling of effluents, shall be filed with the Executive Director (MC 109) of the Texas Commission on Environmental Quality upon completion of the agreement and prior to commingling of the treated effluents in the storage pond. The permittee shall notify the Executive Director (MC 109) of termination of the agreement and shall file with the Executive Director a copy of within 5 days of execution of said agreement.

- 26. The permittee shall use cultural practices to promote and maintain the health and propagation of the Bermuda grass crops and avoid plant lodging. The permittee shall harvest the crops (cut and remove it from the field) at least one time during the year. Harvesting and mowing dates shall be recorded in a logbook kept on site to be made available to TCEQ personnel upon request.
- 27. The physical condition of the spray irrigation fields will be monitored on a weekly basis when the fields are being utilized for the purpose of wastewater irrigation. Any areas with problems such as surface runoff, surficial erosion, stressed or damaged vegetation will be recorded in the field log kept onsite and corrective measures will be initiated within 24 hours of discovery.

Attachment A- Site Map TCEQ Permit No. WQ0012215001 Hurst Creek Municipal Utility District



TECHNICAL SUMMARY AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

DESCRIPTION OF APPLICATION

Applicant:	Hurst Creek Municipal Utility District TCEQ Permit No. WQ0012215001
Regulated Activity:	Domestic Wastewater Permit
Type of Application:	Renewal
Request:	Renewal with changes
Authority:	Texas Water Code (TWC) § 26.027; 30 Texas Administrative Code (TAC) Chapters 305, 309, 312, 319, and 30; and Commission policies.

EXECUTIVE DIRECTOR RECOMMENDATION

The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The draft permit includes an expiration date of **ten years from the date of issuance**, according to 30 TAC Section 305.127(1)(C)(ii)(III), Conditions to be Determined for Individual Permits.

REASON FOR PROJECT PROPOSED

Hurst Creek Municipal Utility District has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Permit No. WQ0012215001 to authorize the disposal of treated domestic wastewater from a daily average flow not to exceed 0.40 million gallons per day (MGD) via surface irrigation of 181 acres of non-public access golf course land. The facility includes a storage pond with a total surface area of 9.0 acres and total capacity of 138 acre-feet for storage of treated effluent prior to irrigation. The existing wastewater treatment facility serves a residential subdivision (Village of the Hills).

PROJECT DESCRIPTION AND LOCATION

The Hurst Creek MUD Wastewater Treatment Facility consists of an activated sludge process plant using complete mix mode. Treatment units include a bar screen, two aeration basins, two final clarifiers, two sludge holding tanks, two filters and two chlorine contact chambers. The facility is in operation.

Sludge generated from the treatment facility is hauled by a registered transporter to Mico Dirt, MSW Permit No. 2361, in Travis County, for further processing. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

The wastewater treatment facility and disposal site are located at 2401 Lakeway Boulevard in Travis County, Texas 78738.

Hurst Creek Municipal Utility District Permit No. WQ0012215001 Statement of Basis/Technical Summary and Executive Director's Preliminary Decision

The wastewater treatment facility and disposal site are located in the drainage basin of Lake Travis in Segment No. 1404 of the Colorado River Basin. No discharge of pollutants into water in the state is authorized by this permit.

SUMMARY OF EFFLUENT DATA

The following is a summary of the applicant's effluent monitoring data for the period April 2022 through April 2024. The average of Daily Average value is computed by averaging of all 30-day average values for the reporting period for each parameter: flow, five-day biochemical oxygen demand (BOD_5), and total suspended solids (TSS) and Total Phosphorus (TP).

<u>Parameter</u>	<u>Average of Daily Average</u>
Flow, MGD	0.193
BOD_5 , mg/l	1.9
TSS, mg/l	1.2
TP, mg/l	1.2

DRAFT PERMIT CONDITIONS

The draft permit authorizes the disposal of treated domestic wastewater effluent at a daily average flow not to exceed 0.50 MGD via surface irrigation of 181 acres of non-public access golf course land. The facility includes a storage pond with a total surface area of 9.0 acres and total capacity of 138 acre-feet for storage of treated effluent prior to irrigation. Application rates to the irrigated land shall not exceed 4.5 acre-feet per year per acre irrigated. The irrigated crops include bermuda grass.

The effluent limitations in the draft permit, based on a daily average, are 5 mg/l BOD_5 , 10 mg/l TSS and 2 mg/l TP. The effluent shall contain a total chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes based on peak flow.

The draft permit includes Sludge Provisions according to the requirements of 30 TAC Chapter 312, Sludge Use, Disposal, and Transportation. Sludge generated from the treatment facility is hauled by a registered transporter to Mico Dirt, MSW Permit No. 2361, in Travis County, for further processing. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

SUMMARY OF CHANGES FROM APPLICATION

None.

SUMMARY OF CHANGES FROM EXISTING PERMIT

The applicant has requested to increase the daily average flow from 400,000 gallons per day to 500,000 gallons per day based on a previous correspondence with the Municipal Permits Team.

The Total Suspended Solids (TSS) monitoring frequency "One/month" in the existing permit has been changed to "One/ Week" in the draft permit.

Hurst Creek Municipal Utility District Permit No. WQ0012215001 Statement of Basis/Technical Summary and Executive Director's Preliminary Decision

The Total Phosphorus (TP) monitoring frequency "One/month" in the existing permit has been changed to "One/ Week" in the draft permit.

Chlorine residual monitoring frequency "five/week" in the existing permit has been change to "daily" in the draft permit.

The flow Monitoring Frequency and Sample Type "Five/week" and "Instantaneous" in the existing permit have been changed to "Continuous" and "Totalizing Meter" respectively, in the draft permit.

Special Provisions (S.P.) Nos. 6, 8 and 14 of the existing permit have been revised in the draft permit.

S.P. Nos. 15, 16, 17, 18, 26 and 27 have been added in the draft permit.

S.P. Nos 15, 16, 17, 18, 19, 20 and 21 of the existing permit have been renumbered as 19, 20, 21, 22, 23, 24 and 25 respectively in the draft permit.

The wastewater treatment facility and disposal site location has been updated from 2401 Lakeway Boulevard, approximately 600 feet south of World of Tennis Boulevard and 1,200 feet west of Lohmans Ford Road in the Lakeway Development Complex in Travis County, Texas 78738 to 2401 Lakeway Boulevard, in Travis County, Texas 78738 in the draft permit.

Certain accidental discharges or spills of treated or untreated wastewater from wastewater treatment facilities or collection systems owned or operated by a local government may be reported on a monthly basis in accordance with 30 TAC § 305.132.

The draft permit includes all updates based on the 30 TAC 312 rule change effective April 23, 2020.

BASIS FOR DRAFT PERMIT

The following items were considered in developing the draft permit:

- 1. Application received on July 18, 2024, and additional information received on August 1, 2024.
- 2. Existing TCEQ permit: Permit No. WQ0012215001 issued on January 13, 2015.
- 3. Interoffice Memorandum from the Water Quality Assessment Team, Water Quality Assessment & Standards Section, Water Quality Division.

PROCEDURES FOR FINAL DECISION

When an application is declared administratively complete, the Chief Clerk sends a letter to the applicant advising the applicant to publish the Notice of Receipt of Application and Intent to Obtain Permit in the newspaper. In addition, the Chief Clerk instructs the applicant to place a copy of the application in a public place for review and copying in the county where the facility is or will be located. This application will be in a public place throughout the comment period. The

Hurst Creek Municipal Utility District Permit No. WQ0012215001 Statement of Basis/Technical Summary and Executive Director's Preliminary Decision

Chief Clerk also mails this notice to any interested persons and, if required, to landowners identified in the permit application. This notice informs the public about the application and provides that an interested person may file comments on the application or request a contested case hearing or a public meeting.

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

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

After the public comment deadline, the Executive Director prepares a response to all significant public comments on the application or the draft permit raised during the public comment period. The Chief Clerk then mails the Executive Director's response to comments and final decision to people who have filed comments, requested a contested case hearing, or requested to be on the mailing list. This notice provides that if a person is not satisfied with the Executive Director's response and decision, they can request a contested case hearing or file a request to reconsider the Executive Director's decision within 30 days after the notice is mailed.

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

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

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

Sumitra Pokharel

April 28, 2025

Date

Sumitra Pokharel Municipal Permits Team Wastewater Permitting Section (MC 148)

P H O N E 512.930.9412 TOLL FREE 866.678.3437	> > SURVEYORS	Domestic Wastewater TLAP Permit Amendment Application
	S	Domestic Wastewater TLAP Permit Amenument Application
ZELL	> >PLANNERS	For
Z		Hurst Creek MUD Wastewater Treatment
	ENGINEERS	Plant
	E S > > E N 0	In
В В	SERVIC	Travis County, Texas
		Job Number 22981
	F-181	
	G FIRM 700	Prepared for:
AVENUE X 78626 COM	ENGINEERING n No. 10003	Hurst Creek Municipal Utility District
	ED	Prepared by:
. AUS TOWP BIZZE	EGISTER	Steger Bizzell Consulting Engineers & Surveyors
7 8 0 R	SR	1978 South Austin Ave.
RESS 19 GE STE	TEXA	Georgetown, Texas 78626
A D D W E B		

Domestic Wastewater TLAP Permit Amendment Application

For

HURST CREEK MUD WASTEWATER TREATMENT PLANT

HURST CREEK MUNICIPAL UTILITY DISTRICT

In

Travis County, Texas

Prepared By:

Steger Bizzell 1978 South Austin Avenue Georgetown, Texas 78626

Job # 22981

Hurst Creek MUD Wastewater Treatment Plant TCEQ TLAP Permit Renewal Table of Contents

- 1. Administrative Report 1.0
- 2. Core Data Form
- 3. Technical Report 1.0
- 4. Worksheet 3.0
- 5. Worksheet 6.0

ATTACHMENTS

- 1. 10400 Form
- 2. Lease Agreement
- 3. Flow Diagram
- 4. Site Drawing
- 5. Pollutant Analysis of Effluent
- 6. Pond Liner Certification
- 7. Cropping Plan
- 8. Original USGS Map
- 9. Water Well Map & Information
- 10. Groundwater Quality Technical Report
- 11. Soil Map & Soil Analysis
- 12. WWTP 2 Year Effluent Data
- 13. Buffer Zone
- 14. Correspondence related to changing permitted flow as minor amendment

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT: <u>Hurst Creek Municipal Utility District</u>

PERMIT NUMBER: WQ0012215001

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

ът

- 7

	Y	Ν
Administrative Report 1.0	\boxtimes	
Administrative Report 1.1		\boxtimes
SPIF		\boxtimes
Core Data Form	\boxtimes	
Public Involvement Plan Form		\boxtimes
Technical Report 1.0	\boxtimes	
Technical Report 1.1		\boxtimes
Worksheet 2.0		\boxtimes
Worksheet 2.1		\boxtimes
Worksheet 3.0	\boxtimes	
Worksheet 3.1		\boxtimes
Worksheet 3.2		\boxtimes
Worksheet 3.3		\boxtimes
Worksheet 4.0		\boxtimes
Worksheet 5.0		\boxtimes
Worksheet 6.0	\boxtimes	
Worksheet 7.0		\boxtimes

Original USGS Map	\boxtimes	
Affected Landowners Map		\boxtimes
Landowner Disk or Labels		\boxtimes
Buffer Zone Map	\boxtimes	
Flow Diagram	\boxtimes	
Site Drawing	\boxtimes	
Original Photographs		\boxtimes
Design Calculations		\boxtimes
Solids Management Plan		\boxtimes
Water Balance		\boxtimes

Y

Ν

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).

Fl	0 W		New/Major Am	lendr	nent	Renewal	
<0).05 MGD		\$350.00 🗆			\$315.00	
-	0.05 but <0.10	-	\$550.00 🗆			\$515.00	
	0.10 but <0.25		\$850.00 🗆			\$815.00 □	
).25 but <0.50		\$1,250.00		\$1,215.00		
).50 but <1.0 M		\$1,650.00		\$1,615.00 🖂		
≥1	0 MGD		\$2,050.00		\$2,015.00		
Mir	nor Amendmei	nt (for any flow)	\$150.00				
Pay	ment Informa	ation:					
	Mailed Check/Mone		⁷ Order Number	: <u>205</u>	<u>41</u>		
		Check/Money	Order Amount	: <u>1,61</u>	5.00		
		Name Printed	on Check: <u>Steg</u>	<u>er Biz</u>	zell		
	EPAY Voucher Number:						
	Copy of Pa	yment Voucher o	enclosed?	,	Yes 🗆		
Ca	at!		- +		D	~~ 20)	
Se	cuon 2.1y	pe of Applica	ation (Instru		ns Pa	ge 29)	
	New TPDES				New TI	LAP	
	Major Amendment <u>with</u> Renewal		wal	\boxtimes	Minor Amendment <u>with</u> Renewal		l
	□ Major Amendment <u>without</u> Renewal		enewal		Minor	Amendment <u>without</u> Rene	ewal
	Renewal without changes				Minor	Modification of permit	
Eor	amondmonte	or modifications	dogariha tha n	rono	and aba	ngaa Dua ta a alariaal arr	on in

For amendments or modifications, describe the proposed changes: <u>Due to a clerical error in</u> <u>processing the previous permit application, we are requesting to increase the total permitted</u> <u>irrigation flow rate from 0.4 MGD up to 0.5 MGD. See Attachment 14 for correspondence with TCEQ that confirms this amendment application can be done as a minor amendment application.</u>

For existing permits:

Permit Number: WQ00<u>12215001</u>

EPA I.D. (TPDES only): TX

Expiration Date: <u>12/01/2024</u>

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

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

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

Hurst Creek Municipal Utility District

(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 <u>http://www15.tceq.texas.gov/crpub/</u>

CN: 600642748

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): <u>Mr.</u>

First and Last Name: <u>Earl Wood</u>

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

Title: <u>General Manager</u>

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

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

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

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

CN: Click here to enter

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

Prefix (Mr., Ms., Miss):

First and Last Name:

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

Title: Dick here to enter text

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

C. Core Data Form

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

Attachment: 1

Section 4. Application Contact Information (Instructions Page 30)

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

A.	Prefix (Mr., Ms., Miss): <u>Mr.</u>			
	First and Last Name: <u>Earl Wood</u>			
	Credential (P.E, P.G., Ph.D., etc.):			
	Title: <u>General Manager</u>			
	Organization Name: <u>Hurst Creek Municipal Utility Dist</u>	<u>rict</u>		
	Mailing Address: <u>102 Trophy Dr.</u>			
	City, State, Zip Code: <u>The Hills, TX, 78738</u>			
	Phone No.: <u>512-261-6281</u> Ext.:	Fax No.:	Click	here to enter text.
	E-mail Address: <u>earlwood@hurstcreekmud.org</u>			
	Check one or both: 🛛 Administrative Contact			Technical Contact
B.	Prefix (Mr., Ms., Miss): <u>Mr.</u>			
	First and Last Name: <u>Aaron Laughlin</u>			
	Credential (P.E, P.G., Ph.D., etc.): <u>P.E.</u>			
	Title: <u>Project Manager</u>			
	Organization Name: <u>Steger Bizzell</u>			
	Mailing Address: <u>1978 South Austin Ave</u>			
	City, State, Zip Code: <u>Georgetown, TX, 78626</u>			
	Phone No.: <u>512-930-9412</u> Ext.:	Fax No.:	Click	here to enter text.
	E-mail Address: <u>alaughlin@stegerbizzell.com</u>			
	Check one or both: 🔲 Administrative Contact		\boxtimes	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): <u>Mr.</u>		
	First and Last Name: <u>Earl Wood</u>		
	Credential (P.E, P.G., Ph.D., etc.):		
	Title: <u>General Manager</u>		
	Organization Name: Hurst Creek Municipal Utility District		
	Mailing Address: <u>102 Trophy Dr.</u>		
	City, State, Zip Code: <u>The Hills, TX, 78738</u>		
	Phone No.: <u>512-261-6281</u> Ext.: Fax No.:		
	E-mail Address: <u>earlwood@hurstcreekmud.org</u>		
B.	Prefix (Mr., Ms., Miss): <u>Mr.</u>		
	First and Last Name: <u>Kurt Pendleton</u>		
	Credential (P.E, P.G., Ph.D., etc.):		
	Title: <u>Assistant General Manager</u>		
	Organization Name: Hurst Creek Municipal Utility District		
	Mailing Address: <u>102 Trophy Dr</u>		
	City, State, Zip Code: <u>The Hills, TX, 78738</u>		
	Phone No.: <u>512-261-6281</u> Ext.: Fax No.:		
	E-mail Address: <u>kurtpendleton@hurstcreekmud.org</u>		

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): <u>Mr.</u>		
First and Last Name: <u>Earl Wood</u>		
Credential (P.E, P.G., Ph.D., etc.):		
Title: <u>General Manager</u>		
Organization Name: <u>Hurst Creek Municipal Utility District</u>		
Mailing Address: <u>102 Trophy Dr.</u>		
City, State, Zip Code: <u>The Hills, TX, 78738</u>		
Phone No.: <u>512-261-6281</u> Ext.: Fax No.:		
E-mail Address: earlwood@hurstcreekmud.org		

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): <u>Mr.</u>

First and Last Name: Earl Wood

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

Title: General Manager

Organization Name: <u>Hurst Creek Municipal Utility District</u>

Mailing Address: <u>102 Trophy Dr</u>

City, State, Zip Code: <u>The Hills, TX, 78738</u>

E-mail Address: earlwood@hurstcreekmud.org

Phone No.: <u>512-261-6281</u> Ext.:

Fax No.:

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): <u>Mr.</u> First and Last Name: <u>Earl Wood</u> Credential (P.E, P.G., Ph.D., etc.): Title: <u>General Manager</u> Organization Name: <u>Hurst Creek Municipal Utility District</u> Mailing Address: <u>102 Trophy Dr</u> City, State, Zip Code: <u>The Hills, TX, 78738</u> Phone No.: <u>512-261-6281</u> Ext.: Fax No.: Maile Maile Maile E-mail Address: earlwood@hurstcreekmud.org

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

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

- ⊠ E-mail Address
- □ Fax
- Regular Mail

C. Contact person to be listed in the Notices

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

First and Last Name: Earl Wood

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

Title: General Manager

Organization Name: Hurst Creek Municipal Utility District

Phone No.: <u>512-261-6281</u> Ext.:

E-mail: <u>earlwood@hurstcreekmud.org</u>

D. Public Viewing Information

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

Public building name: <u>Hurst Creek MUD Offices</u>

Location within the building: <u>Ask at Front Desk</u>

Physical Address of Building: 102 Trophy Dr

City: <u>The Hills</u> County: <u>Travis</u>

Contact Name: <u>Angela Dimsdle</u>

Phone No.: <u>512-261-6281</u> Ext.:

E. Bilingual Notice Requirements:

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

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

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

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

🗆 Yes 🖾 No

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

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

🗆 Yes 🗆 No

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

□ Yes □ No

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

🗆 Yes 🗆 No

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

F. Public Involvement Plan Form

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

Attachment: N/A

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. **RN101614063**

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

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

Hurst Creek MUD Wastewater Treatment Facility

C. Owner of treatment facility: <u>Hurst Creek Municipal Utility District</u>

Ownership of Facility: \square Public \square Private \square Both \square Federal

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

Prefix (Mr., Ms., Miss):

First and Last Name: <u>Hurst Creek Municipal Utility District</u>

Mailing Address: <u>102 Trophy Dr</u>

City, State, Zip Code: The Hills, TX, 78738

Phone No.: <u>512-261-6281</u> E-mail Address: <u>earlwood@hurstcreekmud.org</u>

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:

E. Owner of effluent disposal site:

Prefix (Mr., Ms., Miss):

First and Last Name: <u>Clubcorp Golf of Texas, L.P.</u>

Mailing Address: <u>PO BOX 790830</u>

City, State, Zip Code: San Antonio, TX, 78279

Phone No.: E-mail Address:

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: 2

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):	nter text
First and Last Name:	ter text
Mailing Address:	
City, State, Zip Code:	iter text.
Phone No.: Click here to enter lext	E-mail Address:

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:

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:

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:

City nearest the outfall(s):

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

Outfall Latitude:

Longitude:

Authorization pending

- **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:

 \Box Authorization granted \Box

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

Attachment:

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.

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:

- B. City nearest the disposal site: The Hills
- **C.** County in which the disposal site is located: <u>Travis</u>
- **D.** Disposal Site Latitude: <u>30.353463</u> Longitude: <u>-97.985249</u>
- E. For TLAPs, describe the routing of effluent from the treatment facility to the disposal site:

Pumped from the plant through 12 in pipe to a storage pond. From the storage pond, pumped through a 12 in pipe to the Hills of Lakeway Golf Course for irrigation use.

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

<u>Hurst Creek</u>

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?
 - \Box Yes \Box No \boxtimes 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	\boxtimes	No
-------	-------------	----

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

Account number:

E. Do you owe any penalties to the TCEQ?

🗆 Yes 🖾 No

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

Enforcement order number:

Amount past due:

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:

Section 14. Signature Page (Instructions Page 39)

.

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

Permit Number: <u>WQ0012215001</u>

Applicant: Hurst Creek Municipal Utility District

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): <u>Earl Wood</u>		
Signatory title: <u>General-Manager</u>		
Signature:		
(Use blue ink)		
Subscribed and Sworn to before me by the said <u>Farl Wood</u>		
on this $2hd$ day of $\lambda \mu \mu$, 2024 .		
My commission expires on the <u>20</u> day of <u>April</u> , 20 <u>25</u> .		
SONJA DE LA FUENTE		
Notary Public, State of Texas Comm. Expires 04-20-2025		
Notary Public [SEAL]		

County, Texas

Section 15. Plain Language Summary (Instructions Page 40)

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

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

DOMESTIC WASTEWATER

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application. Hurst Creek Municipal Utility District (CN600642748) operates Hurst Creek MUD Wastewater Treatment Plant RN101614063. a municipal wastewater treatment plant. The facility is located at 2401 Lakeway Boulevard, in The Hills, Travis County, Texas 78738.

This is for a renewal and minor amendment to dispose a daily average flow not to exceed 500,000 gallons per day of treated domestic wastewater via surface irrigation with a minimum area of 181 acres. This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain 5 mg/L BOD5, 10 mg/L TSS, and 2 mg/L P.Domestic wastewater is treated by an activated sludge process plant using bar screens, aeration basins, final clarifiers, aerobic sludge digester/holding tanks, chlorine contact chambers and dual media filters.

PLANTILLA EN ESPAÑOL PARA SOLICITUDES NUEVAS/RENOVACIONES/ENMIENDAS

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.

BY OVERNIGHT/EXPRESS MAIL

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

Texas Commission on Environmental Quality	Texas Commission on Environmental Quality
Financial Administration Division	Financial Administration Division
Cashier's Office, MC-214	Cashier's Office, MC-214
P.O. Box 13088	12100 Park 35 Circle
Austin, Texas 78711-3088	Austin, Texas 78753

Fee Code: WQPWaste Permit No: WQ0012215-001

- 1. Check or Money Order Number:
- 2. Check or Money Order Amount: <u>\$1,615.00</u>
- 3. Date of Check or Money Order:
- 4. Name on Check or Money Order: <u>Steger Bizzell</u>
- 5. APPLICATION INFORMATION

Name of Project or Site: Hurst Creek MUD Wastewater Treatment Facility

Physical Address of Project or Site: 2401 Lakeway Boulevard, The Hills, TX 78738

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



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): <u>0.5</u> 2-Hr Peak Flow (MGD): <u>1.76</u> Estimated construction start date: <u>Constructed</u> Estimated waste disposal start date: <u>Constructed</u>

B. Interim II Phase

Design Flow (MGD): <u>N/A</u> 2-Hr Peak Flow (MGD): <u>N/A</u> Estimated construction start date: <u>N/A</u> Estimated waste disposal start date: <u>N/A</u>

C. Final Phase

Design Flow (MGD): <u>0.5</u> 2-Hr Peak Flow (MGD): <u>1.76</u> Estimated construction start date: <u>Constructed</u> Estimated waste disposal start date: <u>Constructed</u>

D. Current operating phase: <u>Existing/Final Phase</u> Provide the startup date of the facility: <u>2000</u>

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:

The WWTP is a complete-mix activated sludge facility. The treatment plant has two parallel treatment trains. The plant processes include screening, aeration, chemical feed, clarification, chlorination, and filtration. Sewage flows into the aeration basin. After this, it flows into the clarifier. The effluent from the clarifier goes to the Cl2 contact chamber then flows through a tertiary filter. After the tertiary filter, effluent flows by gravity into an onsite effluent holding tank, from where it is pumped to the offsite effluent storage pond. The sludge from the clarifier is pumped to the aerobic digester. Sludge from the digester is sent to a belt press, then transported offsite for disposal.

Port or pipe diameter at the discharge point, in inches: N/A

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**.

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Aeration Basin	2	94' L x 10' L x 15' D
Clarifier	2	15' D x 40" Diameter
Chlorine Contact	2	16' L x 10' W x 15' D
Filter	2	19' L x 6' W x 5' D
Sludge Holding	2	51' H x 10' x 15' D

Table 1.0(1) – Treatment Units

C. Process flow diagrams

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

Attachment: 3

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: <u>4</u>

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

<u>A residential subdivision (The Hills of Lakeway) now named Village of the Hills</u>

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	\boxtimes
1 00	 110	

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

Yes 🗆 🛛 No 🗆

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

Section 5. Closure Plans (Instructions Page 53)

Have any treatment units been taken out of service permanently, or will any units be taken out of service in the next five years? No 🖂

Yes □

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

Yes □ No 🗆

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

Section 6. Permit Specific Requirements (Instructions Page 53)

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

A. Summary transmittal

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

Yes 🖂 No 🗆

If yes, provide the date(s) of approval for each phase: 1991 & 2000

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

B. Buffer zones

Have the buffer zone requirements been met?

Yes 🖂 No 🗆

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

C. Other actions required by the current permit

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

Yes 🗆 🛛 No 🖂

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



D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

Yes □ No ⊠

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

2. Grit and grease processing

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

3. Grit disposal

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

Yes 🗆 🛛 No 🗆

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

Describe the method of grit disposal.

4. Grease and decanted liquid disposal

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

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

E. Stormwater management

1. Applicability

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

Yes □ No ⊠

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

Yes □ No □

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

2. MSGP coverage

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

Yes □ No ⊠

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

or TXRNE

TXR05

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.

Click here to enter text.

5. Zero stormwater discharge

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

Yes 🗆 🛛 No 🖂

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

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 \square No \boxtimes

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?

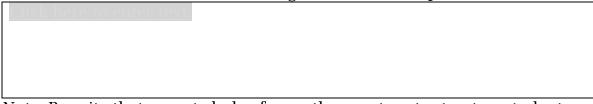
Yes 🗆 🛛 No 🗆

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 \boxtimes No \square

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

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

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

	Average	Max	No. of	Sample	Sample
Pollutant	Conc.	Conc.	Samples	Туре	Date/Time
CBOD ₅ , mg/l	2	2	1	Grab	3/14/2024 13:39
Total Suspended Solids, mg/l	<1	<1	1	Grab	3/14/2024 13:39
Ammonia Nitrogen, mg/l	.06	.06	<u>1</u>	Grab	3/14/2024 13:39
Nitrate Nitrogen, mg/l	26	26	1	Grab	3/14/2024 13:39
Total Kjeldahl Nitrogen, mg/l	<.2	<.2	1	Grab	3/14/2024 13:39
Sulfate, mg/l	79.9	79.9	<u>1</u>	Grab	3/14/2024 13:39
Chloride, mg/l	161	161	1	Grab	3/14/2024 13:39
Total Phosphorus, mg/l	.772	.772	<u>1</u>	Grab	3/14/2024 13:39
pH, standard units	7.5	7.5	1	Grab	3/14/2024 13:39
Dissolved Oxygen*, mg/l	N/A				
Chlorine Residual, mg/l	5.1	5.1	1	Grab	3/14/2024 13:39
<i>E.coli</i> (CFU/100ml) freshwater	<1	<1	1	Grab	3/14/2024 13:39
Entercocci (CFU/100ml)	N/A				

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
saltwater					
Total Dissolved Solids, mg/l	642	642	1	Grab	3/14/2024 13:39
Electrical Conductivity, µmohs/cm, †	1120	1120	1	Grab	3/14/2024 13:39
Oil & Grease, mg/l	<4.9	<4.9	1	Grab	3/14/2024 13:39
Alkalinity (CaCO ₃)*, mg/l	N/A				

*TPDES permits only

†TLAP permits only

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

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

Section 8. Facility Operator (Instructions Page 60)

Facility Operator Name: Jacob Pendleton

Facility Operator's License Classification and Level: <u>Class B Wastewater</u>

Facility Operator's License Number: <u>WW0072729</u>

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

A. Sludge disposal method

Identify the current or anticipated sludge disposal method or methods from the

following list. Check all that apply.

- □ Permitted landfill
- Permitted or Registered land application site for beneficial use
- Land application for beneficial use authorized in the wastewater permit
- Permitted sludge processing facility
- □ Marketing and distribution as authorized in the wastewater permit
- Composting as authorized in the wastewater permit
- Permitted surface disposal site (sludge monofill)
- Surface disposal site (sludge monofill) authorized in the wastewater permit
- Transported to another permitted wastewater treatment plant or permitted sludge processing facility. If you selected this method, a written statement or contractual agreement from the wastewater treatment plant or permitted sludge processing facility accepting the sludge must be included with this application.
- □ Other:

B. Sludge disposal site

Disposal site name: <u>Mico Dirt, 15500 Goforth Rd. Creedmoor, TX 78610</u> TCEQ permit or registration number: <u>TCEQ Permit # 42016</u> County where disposal site is located: <u>Travis County</u>

C. Sludge transportation method

Method of transportation (truck, train, pipe, other): <u>Truck</u>

Name of the hauler: <u>Sheridan Environmental/Wastewater Transport</u>

Hauler registration number: <u>24220</u>

Sludge is transported as a:

	Liquid 🗆	semi-liquid 🗆	semi-solid 🗆	solid 🖂
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Section 10. Permit Authorization for Sewage Sludge Disposal (Instructions Page 60)

A. Beneficial use authorization

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

Yes 🗆 🛛 No 🖂

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

Yes 🗆 No 🗆

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

Yes 🗆 🛛 No 🗆

B. Sludge processing authorization

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

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

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

Yes 🗆 🛛 No 🗆

Section 11. Sewage Sludge Lagoons (Instructions Page 61)

Does this facility include sewage sludge lagoons?

Yes 🗆 🛛 No 🖂

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

A. Location information

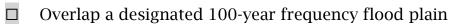
The following maps are required to be submitted as part of the application. For each map, provide the Attachment Number.

- Original General Highway (County) Map: Attachment:
- USDA Natural Resources Conservation Service Soil Map: Attachment:
- Federal Emergency Management Map: Attachment:
- Site map:

Attachment:

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

Check all that apply.



- Soils with flooding classification
- Overlap an unstable area
- □ Wetlands
- □ Located less than 60 meters from a fault
- \Box None of the above

Attachment:

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

B. Temporary storage information

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

Nitrate Nitrogen, mg/kg:

Total Kjeldahl Nitrogen, mg/kg:

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

Phosphorus, mg/kg:

Page 15 of 80

Potassium, mg/kg:
pH, standard units:
Ammonia Nitrogen mg/kg:
Arsenic: The here to enter text
Cadmium: Click here to enter text
Chromium: Click here to enter text
Copper: Click here to enter text
Lead: Click here to enter text.
Mercury: Click here to enter text
Molybdenum: Chick here to enter text
Nickel:
Selenium: Thek here to enter text
Zinc: Click here to enter text
Total PCBs: Click here to enter text
Provide the following information: Volume and frequency of sludge to the lagoon(s):
Total dry tons stored in the lagoons(s) per 365-day period:
enter text.
Total dry tons stored in the lagoons(s) over the life of the unit:
enter text.
C. Liner information
Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of 1x10 ⁻⁷ cm/sec? Yes □ No □

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

D. Site development plan

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

lagoon(s):

Attach the following documents to the application.

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

Attachment:

• Copy of the closure plan

Attachment:

• Copy of deed recordation for the site

Attachment:

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

Attachment:

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

Attachment:

• Procedures to prevent the occurrence of nuisance conditions

Attachment:

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:

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:

<u>Ch. 210 Reclaimed Reuse authorization No. R12215-001 = Type II reclaimed</u> reuse for golf course irrigation, restricted landscape irrigation, and maintenance of water impoundments.

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:

Laboratory Accreditation (Instructions Page 64) Section 14.

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
 - o performing work for another company with a unit located in the same site; or
 - o 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 TCEO 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: Earl Wood

Title: General Manager

Signature:

Date:

DOMESTIC WORKSHEET 3.0

LAND DISPOSAL OF EFFLUENT

The following is required for all permit applications

Renewal, New, and Amendments

Section 1. Type of Disposal System (Instructions Page 77)

Identify the method of land disposal:

	Surface application		Subsurface application				
\boxtimes	Irrigation		Subsurface soils absorption				
	Drip irrigation system		Subsurface area drip dispersal system				
	Evaporation						
	Evapotranspiration beds						
	Other (describe in detail):		ere to enter text.				
	NOTE: All applicants without authorization or proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0.						

For existing authorizations, provide Registration Number:

Section 2. Land Application Site(s) (Instructions Page 77)

In table 3.0(1), provide the requested information for the land application sites. Include the agricultural or cover crop type (wheat, cotton, alfalfa, bermuda grass, native grasses, etc.), land use (golf course, hayland, pastureland, park, row crop, etc.), irrigation area, amount of effluent applied, and whether or not the public has access to the area. Specify the amount of land area and the amount of effluent that will be allotted to each agricultural or cover crop, if more than one crop will be used.

	Irrigation	Effluent	Public
Crop Type & Land Use	Area	Application	Access?
	(acres)	(GPD)	Y/N

Table 3.0(1) - Land Application Site Crops

	Irrigation	Effluent	Public
Crop Type & Land Use	Area	Application	Access?
	(acres)	(GPD)	Y/N

Section 3. Storage and Evaporation Lagoons/Ponds (Instructions Page 77)

Table 3.0(2) - Storage and Evaporation Ponds

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type
1	9.0	138	812' x 412' x 43'	Synthetic

Attach a copy of a liner certification that was prepared, signed, and sealed by a Texas licensed professional engineer for each pond.

Attachment: 6

Section 4. Flood and Runoff Protection (Instructions Page 77)

Is the land application site <u>within</u> the 100-year frequency flood level?

Yes 🖂 🛛 No 🗆

If yes, describe how the site will be protected from inundation.

Portions of the golf course cannot be protected from 100-year flood, but irrigation will not occur if site is inundated.

Provide the source used to determine the 100-year frequency flood level:

FEMA 100-Year Flood Mapping

Provide a description of tailwater controls and rainfall run-on controls used for the land application site.

<u>There are no physical tailwater control facilities; application rate is controlled</u> <u>to prevent runoff. Rainfall run on is not controlled but is generally confined</u> <u>to defined waterways.</u>

Section 5. Annual Cropping Plan (Instructions Page 77)

Attach an Annual Cropping Plan which includes a discussion of each of the following items. If not applicable, provide a detailed explanation indicating why.

Attachment: 7

- Soils map with crops
- Cool and warm season plant species
- Crop yield goals
- Crop growing season
- Crop nutrient requirements
- Additional fertilizer requirements
- Minimum/maximum harvest height (for grass crops)
- Supplemental watering requirements
- Crop salt tolerances
- Harvesting method/number of harvests
- Justification for not removing existing vegetation to be irrigated

Section 6. Well and Map Information (Instructions Page 78)

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation (on a separate page) indicating why.

Attachment: 8

- The boundaries of the land application site(s)
- Waste disposal or treatment facility site(s)
- On-site buildings
- Buffer zones
- Effluent storage and tailwater control facilities
- All water wells within 1 mile of the disposal site or property boundaries
- All springs and seeps onsite and within 500 feet of the property boundaries
- All surface waters in the state onsite and within 500 feet of the property boundaries
- All faults and sinkholes onsite and within 500 feet of the property

List and cross reference all water wells shown on the USGS map in the following table. Attach additional pages as necessary to include all of the wells.

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
			Choose an item.	

Table 3.0(3) - Water Well Data

If water quality data or well log information is available please include the information in an attachment listed by Well ID.

Attachment: 9

Section 7. Groundwater Quality (Instructions Page 79)

Attach a Groundwater Quality Technical Report which assesses the impact of the wastewater disposal system on groundwater. This report shall include an evaluation of the water wells (including the information in the well table provided in Item 6. above), the wastewater application rate, and pond liners. Indicate by a check mark that this report is provided.

Attachment: 10

Are groundwater monitoring wells available onsite? Yes \Box No \boxtimes

Do you plan to install ground water monitoring wells or lysimeters around the land application site? Yes \Box No \boxtimes

If yes, then provide the proposed location of the monitoring wells or lysimeters on a site map.

Attachment:

Section 8. Soil Map and Soil Analyses (Instructions Page 79)

A. Soil map

Attach a USDA Soil Survey map that shows the area to be used for effluent disposal.

Attachment: 11

B. Soil analyses

Attach the laboratory results sheets from the soil analyses. **Note**: for renewal applications, the current annual soil analyses required by the permit are acceptable as long as the test date is less than one year prior to the submission of the application.

Attachment: <u>11</u>

List all USDA designated soil series on the proposed land application site. Attach additional pages as necessary.

Table 3.0(4) – Soil Data

	Depth		Available	Curve
Soil Series	from	Permeability	Water	Number
	Surface		Capacity	

	Depth		Available	Curve
Soil Series	from	Permeability	Water	Number
	Surface		Capacity	

Section 9. Effluent Monitoring Data (Instructions Page 80)

Is the facility in operation?

Yes 🖂 🛛 No 🗆

If no, this section is not applicable and the worksheet is complete.

If yes, provide the effluent monitoring data for the parameters regulated in the existing permit. If a parameter is not regulated in the existing permit, enter N/A.

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	рН	Chlorine Residual mg/l	Acres irrigated
SEE ATTAC	CHMENT 12	<u>.</u>				

 Table 3.0(5) - Effluent Monitoring Data

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	рН	Chlorine Residual mg/l	Acres irrigated

Provide a discussion of all persistent excursions above the permitted limits and any corrective actions taken.

None

DOMESTIC WORKSHEET 6.0

INDUSTRIAL WASTE CONTRIBUTION

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

Section 1. All POTWs (Instructions Page 99)

A. Industrial users

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

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

Categorical IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 0

Significant IUs – non-categorical:

Number of IUs: <u>0</u>

Average Daily Flows, in MGD: 0

Other IUs:

Number of IUs: <u>0</u>

Average Daily Flows, in MGD: <u>0</u>

B. Treatment plant interference

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

Yes □ No ⊠

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

C. Treatment plant pass through

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

Yes □ No ⊠

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

D. Pretreatment program

Does your POTW have an approved pretreatment program?

Yes 🗆 🛛 No 🖂

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program? Yes □ No ⊠

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

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

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

A. Substantial modifications

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

Yes 🗆 No 🗆

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

Click here to enter text.		

B. Non-substantial modifications

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

Yes □ No □

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

C	Effluont	parameters above the MAL
L.	Linuciii	

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

Pollutant	Concentration	MAL	Units	Date

Table 6.0(1) - Parameters Above the MAL

D. Industrial user interruptions

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

Yes 🗆 🛛 No 🗆

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

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

A. General information

 \sim

Company Name:		
SIC Code:		
Telephone number:	Fax number:	Click here to enter
Contact name:		
Address:		
City, State, and Zip Code:	r text.	

B. Process information

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

C. Product and service information

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

Page **73** of **80**

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CHUR HULL			

D. Flow rate information

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

Discharge, in gallons/day:	
Discharge Type: 🗆 Continuous 🗖 Batch	Intermittent
Non-Process Wastewater:	
Discharge, in gallons/day:	
Discharge Type: 🗖 🛛 Continuous 🗖 🛛 Batch	Intermittent

E. Pretreatment standards

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

Yes 🗆 🛛 No 🗆

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

Yes □ No □

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

Category: Subcategories:
Category: Subcategories:
Category: Subcategories:
Category: Subcategories:
Category: Subcategories:

F. Industrial user interruptions

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

Yes □ No □

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

ATTACHMENT 1

10400



TCEQ Core Data Form

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

SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)					
New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)					
Renewal (Core Data Form should be submitted with the	Other Minor Amendment & Renewal				
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in 3. Regulated Entity Reference Number (if issued)				
CN 600642748	<u>Central Registry**</u>	RN 101614063			

SECTION II: Customer Information

4. General Customer Information	5. Effective D	5. Effective Date for Customer Information				es (mm/dd/)	2/15/2024		
New Customer	Update to Custom Texas Secretary of S		omptr		-	egulated Ent nts)	ity Owne	ership	
The Customer Name submitted here m		tomatically ba	ased	on what is c	urrent	and active	with th	e Texas Secr	etary of State
(SOS) or Texas Comptroller of Public Ac									
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)					If new Customer, enter previous Customer below:				
Hurst Creek Municipal Utility District									
7. TX SOS/CPA Filing Number	8. TX State Ta	e Tax ID (11 digits)			9. Federal Tax ID		10. DUNS N	Number (if	
					(9 dig	its)		applicable)	
					74-22	31477			
11. Type of Customer :	oration			🗌 Individ	lual		Partne	ership: 🗌 Gen	eral 🗌 Limited
Government: 🗌 City 🗌 County 🔲 Federal	🗌 Local 🔲 State	🛛 Other		Sole Pi	roprieto	orship	🗌 Otl	her:	
12. Number of Employees				13. Independently Owned and Operated?					
☑ 0-20				🗌 Yes 🛛 No					
14. Customer Role (Proposed or Actual) -	as it relates to the R	Regulated Entity	listed	l on this form.	Please d	heck one of	the follo	owing	
Owner Operator Occupational Licensee Responsible		ner & Operator CP/BSA Applican	nt			Other:			
102 Trophy Dr. 15. Mailing									
Address:									
City The Hills		State TX	(ZIP	78738	3		ZIP + 4	
16. Country Mailing Information (if outs	ide USA)		1	17. E-Mail Ad	dress	(if applicable	e)	· .	
			e	earlwood@hu	rstcreek	mud.org			
18. Telephone Number	19	9. Extension or	r Cod	le		20. Fax N	umber	(if applicable)	

(5	512	261-6281
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SECTION III: Regulated Entity Information

21. General Regulated En									
21. General Regulated Entity Information (If 'New Regulated Entity" is selected, a new permit application is also required.)									
New Regulated Entity Dpdate to Regulated Entity Name 🛛 Update to Regulated Entity Information									
The Regulated Entity Nar as Inc, LP, or LLC).	ne submitte	d may be update	ed, in order to me	et TCEQ Cor	e Data Star	ndards (removal of or	ganization	al endings such
22. Regulated Entity Nam	i e (Enter nam	e of the site where	the regulated actior	is taking pla	ce.)				
Hurst Creek MUD Wastewate	er Treatment F	Facility							
23. Street Address of the Regulated Entity:	2401 Lakeway Boulevard								
<u>(No PO Boxes)</u>	City	The Hills	State	ТХ	ZIP	78738		ZIP + 4	
24. County	Travis								
If no Street Address is provided, fields 25-28 are required.									
25. Description to									
Physical Location:									
26. Nearest City State Nearest ZIP Code									
Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).									
27. Latitude (N) In Decim	Simal: 30.356934 28. Longitude (W) In Decimal: -97.98305								
Degrees	Minutos		Seconds				Minutes		
	Minutes	2		Degre	es		Winutes		Seconds
30		21	24.9624	Degre	es 97		58		Seconds 58.98
30 29. Primary SIC Code			24.9624	31. Primar	97 y NAICS Co	de	58	ndary NAIC	58.98
	30.	21	24.9624		97 y NAICS Co	de	58	-	58.98
29. Primary SIC Code	30.	21 Secondary SIC C	24.9624	31. Primar	97 y NAICS Co	de	58 32. Seco	-	58.98
29. Primary SIC Code (4 digits)	30. (4 d	21 Secondary SIC Co igits)	24.9624	31. Primar (5 or 6 digit 22132	97 y NAICS Co s)	de	58 32. Seco	-	58.98
29. Primary SIC Code (4 digits) 4952	30. (4 d	21 Secondary SIC Co igits)	24.9624 ode	31. Primar (5 or 6 digit 22132	97 y NAICS Co s)	de	58 32. Seco	-	58.98
 29. Primary SIC Code (4 digits) 4952 33. What is the Primary E Wastewater Treatment 	30. (4 d	21 Secondary SIC Co igits) his entity? (Do	24.9624 ode	31. Primar (5 or 6 digit 22132	97 y NAICS Co s)	de	58 32. Seco	-	58.98
29. Primary SIC Code (4 digits) 4952 33. What is the Primary E Wastewater Treatment 34. Mailing	30. (4 d Business of t	21 Secondary SIC Co igits) his entity? (Do	24.9624 ode	31. Primar (5 or 6 digit 22132	97 y NAICS Co s)	de	58 32. Seco	-	58.98
 29. Primary SIC Code (4 digits) 4952 33. What is the Primary E Wastewater Treatment 	30. (4 d Business of t	21 Secondary SIC Co igits) his entity? (Do	24.9624 ode	31. Primar (5 or 6 digit 22132	97 y NAICS Co s)	de 78738	58 32. Seco r (5 or 6 dig	-	58.98
29. Primary SIC Code (4 digits) 4952 33. What is the Primary E Wastewater Treatment 34. Mailing	30. (4 d Business of t 102 Trophy City	21 Secondary SIC Co igits) his entity? (Do / Dr.	24.9624 ode not repeat the SIC of State	31. Primar (5 or 6 digit 22132 NAICS descri	97 y NAICS Co s) ption.)		58 32. Seco r (5 or 6 dig	its)	58.98
 29. Primary SIC Code (4 digits) 4952 33. What is the Primary E Wastewater Treatment 34. Mailing Address: 	30. (4 d Business of t 102 Trophy City	21 Secondary SIC Co igits) his entity? (Do / Dr. The Hills	24.9624 ode not repeat the SIC of State	31. Primar (5 or 6 digit 22132 NAICS descri	97 y NAICS Co s) ption.) ZIP	78738	58 32. Seco r (5 or 6 dig	its) ZIP + 4	58.98

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

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

SECTION IV: Preparer Information

40. Name: A	Aaron Laughlin, P.E.			41. Title:	Project Manager
42. Telephone Nu	umber	43. Ext./Code	44. Fax Number	45. E-Mail	Address
(512) 930-9412			() -	alaughlin@s	tegerbizzell.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.

Phone:	(512) 261- 6281
Date:	7-2-2024

ATTACHMENT 2

Lease Agreement



WASTE DISPOSAL CONTRACT BETWEEN HURST CREEK MUNICIPAL UTILITY DISTRICT AND LAKEWAY COMPANY

THE STATE OF TEXAS § S COUNTY OF TRAVIS §

This agreement (hereafter, the "Agreement") is entered into as of this 12th day of October, 1987, by and between Hurst Creek Municipal Utility District, a body politic and corporate and a governmental agency of the State of Texas organized under the provisions of Article XVI, Section 59, Texas Constitution and Chapter 54, Texas Water Code (hereafter, the "District"), and Lakeway Company, a Texas corporation (hereafter, the "Company").

RECITALS

The District has constructed, owns and operates a sewage collection, treatment and waste disposal system. The Company has constructed, owns and operates an eighteen hole golf course on land located within the boundaries of the District. The District owns Wastewater Discharge Permit No. 12215-001 from the Texas Water Commission which authorizes the District to dispose of treated wastewater from the District's wastewater treatment plant and provides that the District should use treated wastewater for irrigation. The District has requested that the Company agree to divert and use the District's treated wastewater for irrigation of the golf course to the extent the wastewater can be lawfully and practically disposed of by irrigation of the golf course. The Company has requested that the District provide treated wastewater suitable for irrigation purposes for the golf course. The District and the Company recognize that the performance of their respective obligations as provided in this Agreement is of service and economic value to the other. Accordingly, the District and the Company desire to enter into a definitive agreement to specify the terms and conditions under which the District will supply treated wastewater to the Company and the Company will accept treated wastewater from the District to irrigate the golf course.

AGREEMENT

For and in consideration of the mutual promises, covenants, obligations and benefits of this Agreement, the District and the Company contract and agree as follows:

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ARTICLE I

Definitions

Unless otherwise provided or unless the context otherwise requires, the terms defined in this Article shall have the respective meanings specified below:

<u>Collection System</u>: The "Collection System" shall mean the sanitary sewer system of the District including sanitary sewers, manholes, intercepting sewers, sewage pumping and other similar appurtenances, and any improvements, extensions or enlargements thereof, which the District now owns or will acquire and/or construct.

<u>Commission</u>: "Commission" means the Texas Water Commission or its successors.

Dam No. 1: "Dam No. 1" means that certain dam and reservoir on Hurst Creek as described on Exhibit "A" and as authorized in Permit No. 4169 issued by the Commission to the District.

<u>Dam No. 2</u>: "Dam No. 2" means that certain dam and reservoir on Hurst Creek as described on Exhibit "A" and as authorized in Permit No. 4169 issued by the Commission to the District.

-3-

Dams: "Dams" means Dam No. 1 and Dam No. 2, collectively.

Delivery Points: "Delivery Points" means the points designated on Exhibit "A" where the District delivers or has the right to deliver Effluent and Stored Water to the Company pursuant to this Agreement.

Discharge Permits: "Discharge Permits" means all permits, licenses, orders, other authorizations and all regulations applicable to the discharge, disposal, or use of Effluent, and the construction, maintenance or operation of the Wastewater Treatment Facilities heretofore or hereafter issued, adopted or otherwise required by any governmental entity having jurisdiction thereof, including, without limitation, Commission Discharge Permit No. 12215-001 and U.S. Environmental Protection Agency N.P.D.E.S. Permit No. TX0083615 issued to the District.

District's Engineer: The "District's Engineer" means Triad Engineering, Inc., Austin, Texas, or such other engineer as the District may designate from time to time.

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<u>Effluent</u>: "Effluent" means the treated wastewater effluent discharged from the Wastewater Treatment Plant.

Effluent Transportation Facilities: "Effluent Transportation Facilities" means gravity sewer lines, manholes, lift stations, force mains and other facilities used to convey Effluent from the Wastewater Treatment Plant to the Delivery Points.

Irrigated Area: "Irrigated Area" means the tee areas, fairways and greens located in The Hills of Lakeway golf course, the Academy of Golf three hole course and The Hills driving range presently being irrigated with the Effluent and Stored Water, said Irrigated Area being located generally within the tract described on Exhibit "B."

Irrigation System: "Irrigation System" means the pumps, force mains, lines, pipes, irrigation pipe, sprinkler heads, control system and other related appurtenances for conveyance of Effluent and Stored Water from the Delivery Points to, and disposal of Effluent and Stored Water on, the Irrigated Area.

-5-

<u>Stored Water</u>: "Stored Water" means the water impounded in the Dams from whatever source, including but not limited to stream flow, run-off, Effluent, raw water, and backwash water from the District's water supply system properly discharged to the Dams.

<u>Wastewater Treatment Facilities</u>: "Wastewater Treatment Facilities" means the District's Collection System, Wastewater Treatment Plant and Effluent Transportation Facilities.

<u>Wastewater Treatment Plant</u>: "Wastewater Treatment Plant" means the plant and appurtenant facilities necessary to treat wastewater collected through the District's Collection System.

<u>Water Permits</u>: "Water Permits" means all permits, licenses, orders, other authorizations and all regulations applicable to the impounding, storage, diversion and use of Stored Water in the Dams heretofore or hereafter issued, adopted or otherwise required by any governmental entity having jurisdiction thereof, including, without limitation, Permit No. 4169 issued by the Commission to the District.

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ARTICLE II

Supply of Effluent for Irrigation Purposes

Section 1. General. The District owns, or leases, and operates, and reserves from time to time the right to expand and add facilities to, the Wastewater Treatment Facilities and Dam No. 2. The District owns Permit No. 4169 and, pursuant to the terms of that certain "Agreement Concerning Construction and Modification of Facilities and Reimbursement for Certain Costs Thereof," dated contemporaneously herewith and executed by the District and the Company (the "Construction and Reimbursement Agreement"), will acquire from the Company Dam No. 2. The Company owns and operates, and reserves from time to time the right to expand and add facilities to, the Irrigation System and, except as otherwise provided in the Construction and Reimbursement Agreement, Dam No. 2.

Section 2. Delivery of Effluent and Raw Water. The District may, but shall not be required to, deliver up to 650,000 gallons per day of Effluent (based on a 30-day average) to the Delivery Points as authorized by and in conformity with the Discharge Permits. The District shall not, however, at any time be required or obligated to deliver any particular amount of Effluent to the Delivery Points. The District also may, but shall not be required

-7-

to, deliver Effluent to any other place, person or entity for any lawful purpose. It is specifically understood and agreed that the District has only one Delivery Point at this time but that the District intends to construct or to have constructed an additional Delivery Point as indicated on Exhibit A. The Company hereby consents to the construction of the additional Delivery Point and agrees to grant any necessary easement therefor to the District. Future additional Delivery Points may be agreed to by the parties. The District shall be the sole owner of, have exclusive dominion and control over, and be solely responsible for the Effluent within its Wastewater Treatment System until the Effluent reaches the Delivery Points.

Subject to the provisions described in this paragraph, the District agrees to deliver raw water to Dam No. 2 in sufficient quantities to maintain the reservoir levels in Dams No. 1 and 2 and to irrigate the Hills of Lakeway golf course. It is specifically provided, however, that the District's obligations to deliver raw water hereunder is subordinate and inferior to the District's obligation and right to provide water service for municipal use by the District's customers, both present and future, and within and without the boundaries of the District. It is further provided that the District may, in times of emergency or

-8-

shortage of water supply, production, storage or transportation capability in the District's system, curtail or limit raw water service under this Agreement as necessary to alleviate said emergency or shortage, or to enable the District to provide water for municipal use to the District's customers. As used in this Agreement, the term "emergency" shall include, but not be limited to, force majeure and the acts of third parties unrelated to the District which cause the District's System to be unable to provide the full amount of raw water required to maintain the reservoir levels in Dam No. 1 or 2, or to irrigate the Hills of Lakeway Golf Course.

Section 3. Disposal of Effluent. Provided that the Effluent meets the standards required by the Discharge Permits, the Company agrees to receive and dispose of the Effluent delivered by the District at the Delivery Points to the extent the Effluent can be lawfully disposed of by irrigation of the golf course without causing the irrigated area to become unacceptable as a first class golf course. Title to, exclusive dominion and control over, and responsibility for the Effluent shall pass from the District to the Company at the Delivery Points. Subject to the other provisions of this Agreement, the Company agrees to maximize its use of Effluent for irrigation purposes on the Irrigated

-9-

Area so that discharges of Effluent into Hurst Creek and/or releases of Effluent downstream from the Dams are minimized. The Company further agrees to adopt such additional and further irrigation and disposal practices as may now or hereafter be required by the Discharge Permits. It is specifically provided, however, that the Company shall not be required to dispose of Effluent by irrigation in violation of law, including any limits on the quantities of Effluent which may be disposed of on the Irrigated Area, or if to do so would render the golf course unuseable for its intended purpose.

Section 4. Operation and Maintenance by District. The District shall operate, maintain and repair and, as necessary, replace at its expense the Wastewater Treatment Facilities and Dam No. 2. The Company shall immediately notify the District's General Manager if it has reason to believe at the Effluent or the wastewater treatment operation does not meet the requirements of the Discharge Permits as to quality or quantity. Upon receipt of such notice, the District shall immediately determine if the Effluent meets the requirements of the Discharge Permits, and, if not, shall expeditiously remedy said failure. The District shall have no obligation whatsoever with respect to the quality of Stored Water.

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Section 5. Operation and Maintenance by the Company. The Company shall operate, maintain, repair and, as needed, replace the Irrigation System, the Irrigated Area and, except as provided in the Construction and Reimbursement Agreement, Dam No. 1 at its expense.

Section 6. Operation and Maintenance of Dams. The Construction and Reimbursement Agreement contemplates that the District will purchase Dam No. 2 from the Company. The District has entered into that certain "Lease Agreement" dated contemporaneously with this Agreement (the "Lease Agreement") leasing (among other items) Dam No. 2 pending its purchase. T! Construction and Reimbursement Agreement further contemplates that the Company will own Dam No. 1. Except as otherwise agreed to in the Construction and Reimbursement Agreement relating to the reconstruction of Dam No. 1, the District and the Company agree that whichever entity owns or controls by lease a Dam (the "Responsible Entity") shall

(1) maintain the structural integrity of the dam and berms on the Dam and the storage capacity in the Dam by such periodic actions as may be necessary including removal of trees, vegetation, silt, and recompaction and additions of dirt and other materials;

-11-

- (2) not permit any filling of the reservoir impounded by the Dam without the written consent of the other party;
- (3) expeditiously repair or replace the Dam as a result of storm damage or other acts of nature; and
- (4) maintain said dams and reservoirs in an aesthetically pleasing condition consistent with the quality of development in The Hills of L. way Subdivision.

If the Responsible Entity for any reason fails or refuses to properly and timely operate, maintain, repair or replace a Dam, the other party may obtain an appropriate order from a court, agency or governmental authority of appropriate jurisdiction requiring any necessary operation, maintenance, repair or replacement. In such event, the Responsible Entity shall be liable to the other party for all costs incurred by the other party in securing such order or, if appropriate, in operating, maintaining, repairing or replacing a Dam and for any fines or penalties imposed on the other party or damages incurred by the other party as a result of the Responsible Entity's failure to comply with the terms hereof.

Section 7. Operation of Irrigation System and Irri-To the extent obligated herein, the Company gated Area. agrees to cooperate with the District and to use the Irrigation System and the Irrigated Area to withdraw sufficient Effluent and Stored Water from the Wastewater Treatment Facilities and apply such Effluent and Stored Water to the Irrigated Area so that the parties are in compliance with the terms and conditions of the Discharge Permits. The Company shall operate the Irrigation System and the Irrigated Area in accordance with the Discharge Permits and Water Permit and shall be responsible for such additional health precautions, if any, including the construction, installation and maintenance of signs as the Company or any other governmental entity with jurisdiction deems appropri-The Company may at its sole risk, allow others to ate. dispose of the Effluent so long as such is not contrary to If requested by the District, any such disposal law. outside of the Irrigated Area shall be discontinued immediately.

In the event that the Company fails to operate, maintain or replace the Irrigation System or the Irrigated Area in accordance with the Discharge and Water Permits and generally accepted practices to achieve their specified purpose and if the Company fails to correct the deficiency

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within twenty-four (24) hours after notification of such deficiency by the District, the District shall have the right to request any court, agency or other governmental authority of appropriate jurisdiction to grant to the District any and all remedies which are appropriate to assure the proper flow from the Effluent Transportation Facilities, to reduce the level in Dam No. 2 and to otherwise require the Company to conform to the provisions of this Agreement. The Company shall be liable to the District for all costs actually incurred by the District in pursuing such remedies, including attorneys fees and for any penalties or fines imposed on District as a result of the Company's failure to comply with the terms hereof.

It is specifically provided, however, that nothing herein shall be construed to require the Company to irrigate any areas other than the Irrigated Area. It is further specifically provided that the Irrigated Area does not include "rough" areas located outside of the tees, fairways and greens on the golf course. Should the District desire at a later time to irrigate the "rough" areas within the boundaries of the golf course, the Company agrees to cooperate to allow the District, at the District's sole expense, to construct and operate an irrigation system to dispose of effluent in the rough areas on the golf course. The

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location of such irrigation facilities and the method of construction and operation of same shall be subject to further mutual agreement by the District and the Company at that time.

Section 8. Regulation and Future Modifications. The parties recognize that the operation of the Wastewater Treatment Facilities and the disposal of the Effluent and Stored Water are subject to regulation by the Commission and other governmental entities. Accordingly, the parties agree that they will cooperate with each other as may be necessary to assure compliance with all terms and conditions of all existing Discharge Permits and Dam Permit and as they may be amended from time to time. The District and the Company agree to consult and cooperate with each other to renew the Discharge Permits and Dam Permit from time to time in such manner that efficient wastewater service may be provided by the District while the golf course continues to be operated as a first class golf course.

ARTICLE III

General

<u>Section 1</u>. <u>Connection Fee</u>. The Company shall not be obligated to pay any connection fee to the District for the provision of Effluent or Stored Water under this Agreement.

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Section 2. Rates for Service. The Company shall not be obligated to pay any service fee to the District as compensation for the District's providing Effluent to the Company for irrigation under this Agreement. The District shall not be obligated to pay any service fee to the Company as compensation for the Company's disposing of the Effluent for the District. The District may, by appropriate order or orders adopted from time to time by its Board of Directors, charge and collect a reasonable rate for raw water service provided to the Company for irrigation and maintenance of the water level in Dam No. 1. Such rate shall be based on the District's cost of providing same.

<u>Section 3</u>. <u>Term</u>. Unless terminated by mutual agreement of the parties hereto, this Agreement shall continue in force and effect for a period of forty (40) years from the date of its execution and may thereafter be continuously renewed by mutual agreement of the parties; provided however, notwithstanding any of the above, at its sole option and discretion, the District may upon one (1) year written notice, terminate this Agreement at any time, except as to the obligation of the District to deliver, under the terms and conditions provided in this Agreement, raw water to Dams No. 1 and 2 for maintenance of the level of the reservoirs and irrigation of The Hills of Lakeway golf course. The

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termination of this Agreement, either by the terms hereof or by the District, shall never be construed to prevent, and the Company agrees to never contest, the right of the District to discharge Effluent into Hurst Creek in conformity with the terms of the Discharge Permits as now or hereafter amended.

Section 4. Force Majeure. If either party is rendered unable, wholly or in part, by reason of force majeure to carry out any of its obligations under this Agreement, then the obligations of that party to the extent affected by such force majeure and to the extent that due diligence is being used to resume performance at the earliest practicable time, shall be suspended during the continuance of any inability so caused to the extent provided but for no longer period. Such cause, as far as possible, shall be remedied with all reasonable diligence. The term "force majeure," as used herein, shall include acts of God, strikes, lockouts, or other industrial disturbances, acts of the public enemy, orders of any kind of any governmental entity or any civil or military authority, insurrections, riots, epidemics, landslides, lightning, earthquakes, fires, hurricanes, storms, floods, washouts, droughts, arrests, restraint of government and people, civil disturbances, explosions, breakage or accidents to machinery, pipelines or canals, or

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any other conditions which are not within the control of such party. It is understood and agreed that the settlement of strikes and lockouts shall be entirely within the discretion of either party hereto, and that the above requirements that any force majeure shall be remedied with all reasonable dispatch shall not require the settlement of strikes and lockouts by acceding to the demand of the opposing party or parties when such settlement is unfavorable to it in the judgment of either party hereto.

Section 5. Indemnification. Each party shall defend, indemnify and hold harmless the other party and its respective officers, agents and employees from and against all damages, claims, losses, fines, penalties, demands, suits, judgments and costs, including reasonable attorney's fees and expenses, arising out of or resulting from its failure to comply with any of its obligations under the terms of this Agreement.

Section 6. Assignability. This Agreement shall not be assignable by either party hereto without the prior written consent of the other party which consent may not be unreasonably withheld or dela d; provided, however, the District may, without the consent of the Company, assign the Agreement in whole or in part to any other governmental entity providing wastewater service to the District.

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<u>Section 7</u>. <u>Modification</u>. This Agreement shall be subject to change or modification only with the mutual written consent of the Company and the District.

Section 8. Captions. The captions appearing at the first of each numbered section or paragraph in this Agreement are inserted and included solely for convenience and shall never be considered or given any effect in construing this Agreement.

Section 9. Severability. The provisions of this Agreement are severable, and if any provision or part of this Agreement or the application thereof to any person or circumstance shall ever be held by any court of competent jurisdiction to be invalid or unconstitutional for any reason, the remainder of this Agreement and the application of such provision or part of this Agreement to other persons or circumstances shall not be affected thereby.

Section 10. Cooperation. Each party hereby agrees that it will take all actions necessary to fully carry out the purposes and intent of this Agreement.

Section 11. Addresses and Notice. Unless otherwise provided in this Agreement, any notice herein provided or permitted to be given, made, or accepted by any party must be in writing and may be given by depositing the same in the United States mail postpaid, registered or certified and

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addressed to the party to be notified, with return receipt requested, or by delivering the same to an officer of such party, or by prepaid telegram addressed to the party to be notified. Notice deposited in the mail in the manner described above shall be conclusively deemed to be effective from and after the expiration of three (3) business days after it is so deposited. Notice given in any other manner shall be effective only if and when received by the party to be notified. For the purposes of notice, the addresses of the parties shall be as follows:

> Hurst Creek Municipal Utility District c/o Vinson & Elkins First City Centre 816 Congress Avenue Austin, Texas 78701-2496

Lakeway Company No. 1 World of Tennis Square Austin, Texas 78734

The parties shall have the right from time to time and at any time to change their respective addresses and each shall have the right to specify as its address any other address in the State of Texas by at least fifteen (15) business days' written notice to the other parties.

Section 12. Notice of Agreement. The District and the Company shall execute a "Notice of Agreement and Restrictive Covenant" (the "Restriction") which shall have attached a metes and bounds description of the Irrigated Area, the Dams

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and the associated reservoirs, and any lands upon which any of the Irrigation System is located. The parties agree to execute and record from time to time amendments to the Restriction to evidence changes in this Agreement or more accurate descriptions of the Dams, the Irrigated Area and the lands upon which the Irrigation System is located. The Restriction shall bind future owners of the Dams, the Irrigation System and the Irrigated Area. Should either party sell, lease or otherwise transfer or encumber the Dams, the Irrigation System or the Irrigated Area, it shall deliver a copy of this Agreement to any such subsequent party prior to consummating such transaction.

Section 13. Merger. This Agreement, together with such descriptions, terms and conditions as may be included in the exhibits hereto, constitutes the entire agreement between the parties relative to the subject matter hereof. There have been and are no agreements, covenants, representations, or warranties between the parties other than those expressly stated or provided for herein.

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IN WITNESS WHEREOF, the parties hereto have executed this Agreement in multiple counterparts, each of which shall be deemed to be an original, as of the date and year first written herein.

ATTEST:

Secretary, Board

Directors

[SEAL]

HURST CREEK CIPAL UTILITY MUN DISTRIC By President, Board of Directors

LAKEWAY COMPANY, a partnership

BY: Alpert Investment Corporation, General Partner

ingn By:

Charles P. Hansen Executive Vice President and General Manager

HUR002:03

EXHIBIT LIST

WASTE DISPOSAL CONTRACT BETWEEN HURST CREEK MUNICIPAL UTILITY DISTRICT AND LAKEWAY COMPANY

1. Exhibit A - General Map of Hurst Creek MUD Wastewater Disposal Facilities

2. Exhibit B - Irrigated Area

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EXHIBIT "A"

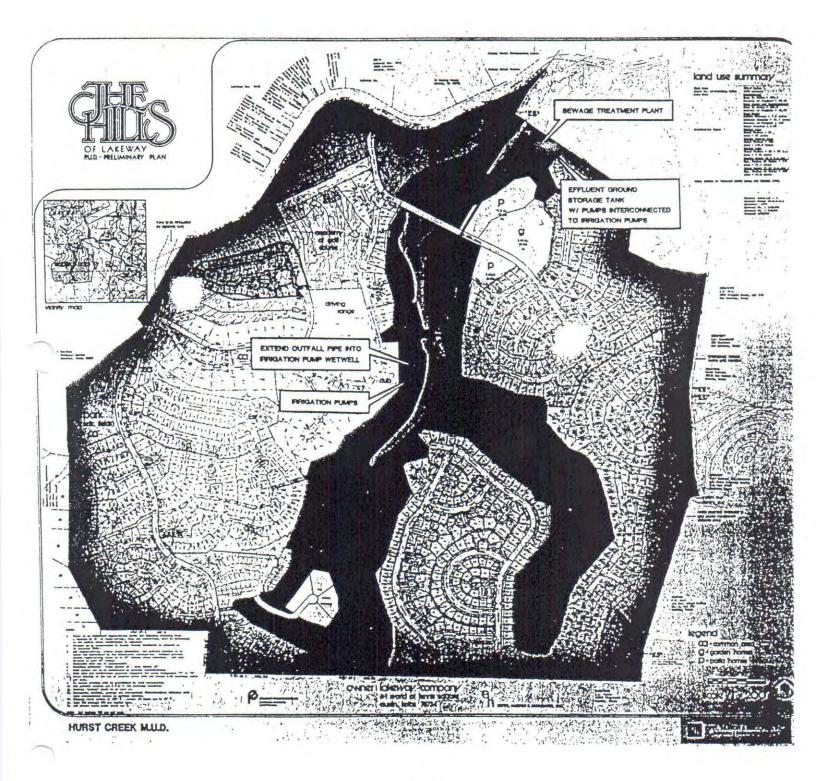


EXHIBIT B

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EASEMENT DESCRIPTION - TRACT 1

A TRACT OF LAND CONTAINING 162 ACRES, MORE OR LESS, LYING IN THE T.C.R.R.CO. SURVEY NO. 195, THE C.W. WALDRON SURVEY NO. 78, THE W. FAWCETT SURVEY NO. 426, THE W. FAWCETT SURVEY NO. 425, THE N. HOFFMEISTER SURVEY NO. 469, AND THE J.H. LOHMAN SURVEY NO. 523 SITUATED IN TRAVIS COUNTY, TEXAS AND BEING A PORTION OF A 700.26 ACRE TRACT OF LAND CONVEYED BY ALPERT INVESTMENT CORPORATION TO LAKEWAY LAND COMPANY IN VOLUME 4175, PAGES 1421 THRU 1425, TRAVIS COUNTY DEED RECORDS, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

Beginning at the lot corner common to Lots 324 and 325 HILLS OF LAKEWAY PHASE 4, said point also lying on the right of way of Tiburon Drive.

Thence along the boundary of said PHASE 4 the following courses: S02°19'19"W 93.34 feet;

S72°04'02"W 227.79 feet; S36°52'43"W 52.09 feet;

S19*41'32"E 164.91 feet;

S27°30'48"E 143.84 feet; to a corner common to the HILLS OF LAKEWAY PHASE 5;

Thence along the boundary of said PHASE 5 the following courses: \$33*46'17"W 255.94 feet;

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S12°25'00"W	216.05	feet;
S12º08'06"W	254.41	feet;
\$23°50'05"W	93.79	feet;
502*39'28"W	249.81	feet;
S20*44'01"E	293.67	feet;
03593315680	127 59	Foot

S25°32'56"E 137.58 feet; S05°03'37"E 239.63 feet;

S15*50'03"W 10.45 feet to a corner common with the plat of said PHASE 4;

Thence along the boundary of PHASE 4 the following courses: S15°32'41"W 150.66 feet

S04°15'53"E 89.19 feet to a point on the north right-of-way of Hills Drive;

Thence S86°49'46"W along the north right-of-way of said roadway 930.90 feet to a corner common to the plat of THE HILLS OF LAKEWAY PHASE 3;

Thence along the boundary of said PHASE 3 the following courses: around a 1622.84 radius curve right 41.09 feet, (long chord

bears S87°33'17"W 41.09 feet); around a 15.18 foot radius curve right 25.83 feet (long chord bears N43°01'55"W 22.83 feet); around a 25 foot radius curve right 21.01 feet (long chord

around a 25 foot radius curve right 21.01 feet (long chord bears N30°26'46"E 20.41 feet); around a 50.00 foot radius curve left 42.05 feet (long chord

bears N30°26'46"E 40.82 feet); N06°21'16"E 40.00 feet;

around a 50 foot radius curve left 37.52 feet (long chord bears N15°08'44"W 36.65 feet);

N70°30'16"E 150.70 feet;

N65°11'20"W 299.97 feet; N63°47'21"W 343.11 feet;

N50°39'16"W 239.11 feet;

S77°19'17"W 61.32 feet to a corner common to the plat of THE HILLS OF LAKEWAY PHASE 6;

Thence along the boundary of said PHASE 6 the following courses: N09*15'13"E 85.13 feet;

N77*10'52"E 226.75 feet;

Thence leaving the boundary of said PHASE 6 and going the following courses:

around a 17.17 foot radius curve right 23.99 feet (long chord bears S68°21'07"E 22.09 feet); around a 192.61 foot radius curve left 132.42 feet (long chord bears 48°00'30"E 129.83 feet);

around a 989.24 foot radius curve left 186.30 feet (long chord bears \$73*05'57"E 186.02 feet); \$78*30'49"E 85.79 feet;

around a 90.69 foot radius curve left 99.42 feet (long chord bears N70*04'46"E 94.52 feet);

N38°40'21"E 11.93 feet;

EXHIBIT B

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West -

S64 45'34"E 99.72 feet; S80°47'41"E 199.40 feet; N26°15'19"E 211.63 feet; N08*16'52"W 131.01 feet; N26°32'54"W 305.14 feet; N85*05'35"W 153.20 feet; \$22*57'58"W 216.92 feet; S24*05'58"W 165.60 feet; S27°52'17"W 129.23 feet; S64°45'50"E 103.27 feet; around a 40.69 foot radius curve right 44.61 feet (long chord bears \$70°04'46"W 42.41 feet); N78°30'49"W 85.77 feet; around a 939.24 foot radius curve right 176.88 feet (long chord bears N73°06'00"W 176.62 feet); around a 142.61 foot radius curve right 87.20 feet (long chord bears N50°11'10"W 85.84 feet); around a 15.00 foot radius curve right 21.60 feet (long chord bears NO8°34'56"E 19.78 feet) to the boundary of the plat of said PHASE 6; Thence along the boundary of said PHASE 6 the following courses: around an 80.00 foot radius curve left 68.10 feet (long chord bears N25°26'55"E 66.06 feet); around a 278.49 foot radius curve left 42.42 feet (long chord bears S03°33'52"E 42.38 feet); N62*33'31"E 111.44 feet; N27*56'53"E 287.34 feet; N11*19'12"E 113.73 feet; N02°34'00"W 92.24 feet; N82°22'23"W 73.24 feet; to a corner common to the plat of THE HILLS OF LAKEWAY PHASE 2; Thence along the boundary of said PHASE 2 the following course: N19°26'06"E 209.09 feet; N15°16'44"E 306.90 feet; N07°46'44"E 215.59 feet; N40°21'49"W 21.73 feet; to a corner common to the plat of THE HILLS OF LAKEWAY PHASE 1 Thence along the boundary of said PHASE 1 the following courses: N10°26'30"E 186.90 feet; N60*30'30"E 284.94 feet; N26°51'01"E 170.12 feet; N51°51'01"E 336.97 feet; N40°41'49"E 395.63 feet; \$83*29'46"W 165.52 feet; around a 565.99 foot radius curve left 53.18 feet (long chord bears N15°50'53"W 53.16 feet); N18*32'21"W 32.92 feet; N48°35'17"E 164.51 feet; N00°03'34"E 228.45 feet; N19°37'06"W 351.19 feet; N01°02'01"E 476.67 feet; N25*38'08"E 234.54 feet; N22*52'08"E 60.00 feet; N67°07'52"W 80.23 feet to a corner common with the MASTERS AT THE HILLS OF LAKEWAY: Thence along the boundary of said MASTERS AT THE HILLS OF LAKEWAY the following courses: N23*01'03"E 116.88 feet; N39*36'52"E 174.27 feet; N56*47'23"E 203.58 feet; N69°05'58"E 314.12 feet; N67°20'08"E 106.13 feet; N43*48'09"E 146.71 feet; N08*51'55"W 83.78 feet; N21*09'15"E 157.53 feet; N30°10'46"W 176.41 feet to the easterly right-of-way of THE WORLD OF TENNIS BOULEVARD; Thence along the easterly right-of-way of said WORLD OF TENNIS BOULEVARD the following courses: N59*47'53"E 400.22 feet; around a 632.96 foot radius curve to the left 149.87 feet (long chord bears N53°00'53"E 149.52 feet); N46°13'53"E 271.10 feet to the corner of the WIMBLEDON

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TOWNHOUSE PROPERTY recorded in Volume 5257 Page 1762 in the Travis County Deed Records; Thence along the boundary of said property, the following courses: S34°14'50"W 287.88 feet; \$23°44'00"W 201.60 feet; S22°43'26"W 106.02 feet; S58°23'48"E 630.49 feet to a corner common with the plat OF THE HILLS OF LAKEWAY PHASE 9; Thence along the boundary of said PHASE 9 the following courses: S56°36'30"W 160.12 feet; S31*36'30"W 130.00 feet; \$27*23'30"E 220.00 feet; S68*41'09"E 93.56 feet; \$24"15'01"W 20.00 feet; S68°32'30"E 126.47 feet; around a 1028.94 foot radius curve left 30.00 feet (long chord bears S21*02'42"W 30.00 feet); N68*32'30"W 208.90 feet; S43°36'30"W 127.62 feet to an angle point on lot 771 of said PHASE 9: Thence leaving the boundary of PHASE 9 and going the following coursest N46*05'47"W 295.48 feet; \$63*41'27"W 137.91 feet; \$43*51'21"W 225.70 feet; 557°12'13"W 219.97 feet; S26*00'04"W 260.84 feet; N67°04'30"W 166.96 feet; \$37°11'10"W 339.47 feet; S20*32'28"E 87.81 feet; S24*24'03"E 151.36 feet; S02*32'37"W 163.16 feet; S17*08'04"E 193.02 feet; N89°06'34"E 95.00 feet; NO8*46'21"W 163.16 feet; N06°21'31"E 172.95 feet; N15*53'34"E 396.15 feet; S67*04'30"E 241.51 feet; S13*53'12"W 356.82 to a corner on the plat of THE HILLS OF LAKEWAY PHASE 9; Thence along the boundary of said PHASE 9; S04*58'30"W 92.13 feet; S02*21'53"W 65.81 feet; 507°02'26"W 403.01 feet; S01*30'56"E 139.32 feet; N89°01'56"E 166.29 feet; around a 338.00 foot radius curve left 30.75 feet (long chord bears S13°33'55"E 30.74 feet); \$89*01'56"W 172.70 feet; S01*30'56"E 48.17 feet; S04*10'14"E 246.81 feet; S72"14'19"E 74.87 feet; S85"26'54"E 61.30 feet; S88*07'00"E 90.54 feet; S70*05'39"E 356.76 feet; S86°30'36"E 273.24 feet; 98.89 feet to a corner common with the plat of S26"28'20"E THE HILLS OF LAKEWAY PHASE 8; Thence along the boundary of the plat of said PHASE 8 the following courses: S00*28'44"E 167.47 feet; S46*08'12"E 332.52 feet; S71*27'33'E 165.97 feet; \$40°38'45"E 185.97 feet; S21°28'39"E 321.92 feet; S14*28'33"E 182.15 feet; S15*06'20"E 221.50 feet; \$33*52'52"W 582.08 feet; S21*37'58"W 173.55 feet; S10°32'01"W 207.03 feet; S09*30'46"W 210.59 feet; \$23°41'35"W 279.27 feet;

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EXHIBIT B

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\$85"03'14"W 152.50 feet; to a corner common with the plat of THE HILLS OF LAKEWAY PHASE 4; Thence. along the boundary of the plat of said PHASE 4 the following courses:

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771	Millig Courses						
	N73*35'56"W	183.71	feet;				
	N06*28'29"W	433.22	feet;				
	N00°21'37"E	342.41	feet;				
	N32º05'57"E	286.02	feet;				
	N35*39'11"E	212.70	feet;				
	N31*00'06"E	98.51	feet;				
	N02º21'58"W	294.24	feet;				
	N75*55'51"W	167.82	feet;				
	N25*44'50"W	107.80	feet;				
	N59*29'10"W	332.70	feet;				
	N50"46'23"W	504.44	feet;				
	N84*09'47"W	111.28	feet;				•
	N83*55'08"W	320.44	feet;				
	846°56'03"W	83.41	feet				
	S43*18'25"E	177.86	feet to	the	point	of	beginning.

EXEMPT THEREFROM: The Hurst Creek M.U.D. wastewater treatment facilities as described on attached EXHIBIT A.

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LAKEWAY SEWER TREATMENT PLANT 00.14 ACRES

F.N. 0004 (WW) MAY 8, 1985 EH4A JOB NO. 6395-01

EXHIBIT A

FIELD NOTE DESCRIPTION OF A 0.14 ACRE TRACT OF LAND BEING A PORTION OF THE T.C.R.R. CO. SURVEY NO. 195, BEING ALSO A PORTION OF THAT CERTAIN 700.26 ACRE TRACT OF LAND AS DESCRIBED IN A DEED TO LAKEWAY LAND CO. OF RECORD IN VOLUME 4175 PAGE 1424 OF THE DEED RECORDS OF TRAVIS COUNTY, TEXAS AND BEING HORE PARTICULARLY DESCRIBED AS FOLLOWS!

COMMENCING at an iron rod found being the most northerly corner of the said 700.26 acre tract and being the southwest corner of a tract of land as described in a deed to Wimbleton Townhouse Properties, LTD. of record in Volume 5257 Page 1782 of the Deed Records of Travis County, Texas;

THENCE with the northeast line of the said 700.26 acre tract, and the southwest line of the said Wimbleton Townhouse Properties, LTD., $558^{\circ}-23^{\circ}-48^{\circ}$ E a distance of 422.45 feet to a point,

THENCE departing the southwest line of the said Wimbleton Townhouse Properties, LTD., and the northeast line of the said 700.26 acre tract and over and across the said 700.26 acre tract S 31°-36'-12" W a distance of 82.92 feet to a found chain link fence post being the POINT OF BEGINNING and being the northeast corner hereof;

THENCE continuing over and across the said 700.26 acre tract the following five (5) courses and distances;

- S 09"-15'-52". E a distance of 90.30 feet to a found chain link fence post being the southeast corner hereof,
- (2) S 41°-26'-23" W a distance of 10.79 feet to a found chain link fence post,
- (3) S 82°-05'-04" W a distance of 56.30 feet to a found chain link fence post being the southwest corner hereof,
- (4) N 07*-54'-56" W a distance of 95.83 feet to a found chain link fence post being the northwest corner hereof, and
- (5) N 80°-44'-08" E a distance of 62.38 feet to the POINT OF BEGINNING and containing 0.14 acres of land.

THE STATE OF TEXAS:

COUNTY OF TRAVIS :

KNOW ALL MEN BY THESE PRESENTS :

That I, R. David Strutton, a Registered Public Surveyor, do hereby certify that the above description was prepared from an on the ground survey under my direction and supervision and is true and correct to the best of my knowledge.

DLVID SIRUIION

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R ' David Strutton

Registered Public Surveyor No. 4312-State of Texas

EXHIBIT B

EASEMENT DESCRIPTION TRACT 2

A TRACT OF LAND CONTAINING 8.34 ACRES LYING IN THE H. HOFFMEISTER SURVEY NO. 469 SITUATED IN TRAVIS COUNTY, TEXAS AND BEING A PORTION OF A 700.26 ACRE TRACT OF LAND CONVEYED BY THE ALPERT INVESTMENT CORPORATION TO LAKEWAY LAND COMPANY IN VOLUME 4175, PAGES 1421 THRU 1425 TRAVIS COUNTY DEED RECORDS, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

a corner common to Lot 1 THE GOLF COTTAGES OF Beginning at ACADEMY PLACE, Lot 1-B, ACADEMY PLACE SECTION ONE-B & Lot G.C. 768 HILLS OF LAKEWAY PHASE 1:

Thence along the north line of said GOLF COTTAGES OF ACADEMY PLACE the following courses:

N78*21'06"W 158.15 feet; \$58*49'29"W 216.46 feet;

\$75*33'20"W 551.28 feet;

S50*50'21"W 126.01 feet;

Thence leaving the boundary of said plat & going S50°50'21"W 11.06 feet to a corner on Lot G.C. 777 HILLS OF LAKEWAY PHASE 1; Thence along the boundary of said lot G.C. 777 N16*39'32"W 326.59 feet to the south right-of-way of WORLD OF TENNIS BOULEVARD: Thence easterly along the south right-of-way of WORLD OF TENNIS BOULEVARD the following courses:

. around a 442.11 foot radius curve left 218.54 feet (long chord bears N73°53'45"E 216.32 feet); N59°44'20"E 326.82 feet;

around a 581.09 foot radius curve left 330.35 feet (long chord bears N43°27'09"E 325.92 feet);

N27°09'58"E 59.96 feet to a corner common to Lot G.C. 768 HILLS OF LAKEWAY PHASE 1;

Thence along the boundary of said Lot 768 the following courses: 562°49'58"E 111.21 feet; S26°16'21"E 526.99 feet to the point of beginning.

ALSO: Lot G.C. 768 and Lot G.C. 777 located in the plat of THE HILLS OF LAKEWAY PHASE 1.

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FIRST AMENDMENT TO WASTE DISPOSAL CONTRACT

This First Amendment to Waste Disposal Contract (the "First Amendment") is entered into by and between Hurst Creek Municipal Utility District (the "District") and Cobblestone Golf-Group ("Cobblestone") as follows:

WHEREAS, the District has heretofore entered into that certain "Waste Disposal Contract" dated October 12, 1987, with the Lakeway Company (the "Waste Disposal Contract");

WHEREAS, Cobbiestone has succeeded to all rights and obligations of Lakeway Company under the Waste Disposal Contract; and

WHEREAS, the parties desire to amend the Waste Disposal Contract as herein provided;

NOW, THEREFORE, for and in consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties agree as follows:

<u>Section 1</u>. Except as otherwise provided in Section 2 of this First Amendment, (i) all capitalized terms have the same meanings as said terms have in the Waste Disposal Contract, and (ii) all terms and provisions of the Waste Disposal Contract continue in effect.

<u>Section 2</u>. The definition of the term "Effluent" in <u>Article I</u>, <u>Definitions</u> of the Waste Disposal Contract, is hereby changed to read as follows:

<u>Effluent</u>: "Effluent" means the treated wastewater effluent discharged from the Wastewater Treatment Plant or other treated wastewater effluent of substantially the same quality as that discharged from the District's Wastewater Treatment Plant, including that treated wastewater effluent received by the District pursuant to that certain "Agreement Concerning Wastewater Disposal" between the District and Lynnwood, a Texas limited partnership, dated effective June 9, 1995. Section 3.

3. The effective date of this First Amendment is June 9, 1995.

HURST CREEK MUNICIPAL UTILITY DISTRICT

By

Haskell Wotkyns, Jr. President Board of Directors

ATTEST:

Thomas R. Fowler Secretary, Board of Directors

LAKEWING GOIF CLUBS, FAC. LAKEWING GOIF CLUBS, FAC.

By: _____ Name: ndren rosson Title: LACE Pres

hurst\lstamnd.wdc

-99020214- JG-CO

AFTER RECORDING RETURN TO: A ITN. JIM GARRISON STEWART TITLE P. O. BOX 1806 AUSTIN, TEXAS 78767

After recordation return to.

Glenn B Callison, Esq >

Munsch Hardt Kopf & Harr, P C 4000 Fountain Place 1445 Ross Avenue Dallas, Texas 75202

GENERAL WARRANTY DEED

to be effective as of

April 1, 1999, This General Warranty Deed (this "Deed") is made as of March 30, 1999, by LAKEWAY GOLF CLUBS ACQUISITION, L.L.C., a Texas limited liability company (successor by merger to Lakeway Golf Clubs, Inc, as described on Exhibit "B" attached hereto) (the "Grantor") to CLUBCORP GOLF OF TEXAS, L.P., a Texas limited partnership (the "Grantee")

For and in consideration of the sum of Ten and No/100 Dollars (\$10 00) and other valuable consideration to Grantor paid by the Grantee, the receipt of which are acknowledged, Grantor and Grantee agree as follows

Conveyance and Warranty of Title 1

Grantor GRANTS, SELLS, and CONVEYS to Grantee all of the real property, together with all the rights, expressed or implied in and to the reservation of all oil, gas and other minerals as set out in deeds (the "Property") situated in Travis County, Texas more particularly described on Exhibit "A" attached hereto and made a part hereof for all purposes, together with all improvements, structures and fixtures located thereon as well as all of Grantor's rights to appurtenances, easements, rights of way, adjacent streets and alleys, strips and gores,

TO HAVE AND TO HOLD the Property together with all and singular the rights and appurtenances thereto in anywise belonging, to Grantee, its successors and assigns, forever, and Grantor binds itself, its successors and assigns, to WARRANT AND FOREVER DEFEND all and singular the Property to Grantee, its successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof

Warranty Deed

The Hills Austin, Texas

-3477-DIU4

EXECUTED as of the date first above written

GRANTOR:

LAKEWAY GOLF CLUBS ACQUISITION, L.L.C., a Texas limited liability company, successor by merger to Lakeway Golf Clubs, Inc

By. Mary Cowser, Senior Vice President

GRANTEE'S ADDRESS:

.

3030 LBJ Freeway, Suite 700 Dallas, Texas 75234 Attn Ms Mary Cowser

> AFTER RECORDING RETURN TO: ATTN: JIM GARRISON STEWART TITLE P. O. BOX 1806 AUSTIN, TEXAS 78767

Warranty Deed

The Hills Austin, Texas

STATE OF	N21	8
SIAIL 01	01 1	2
COUNTY OF	m	9 69

On this day of March, 1999, before me personally appeared Mary Cowser, Senior Vice President of Lakeway Golf Clubs Acquisition, LLC, a Texas limited liability company, successor by merger to Lakeway Golf Clubs, Inc, who is personally known to me, this day appeared before me personally and in my presence did acknowledge that he did sign, seal and deliver the foregoing instrument of his own free will and accord, for the purposes therein named and expressed

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal at March $2\frac{1}{2}$, 1999, the day and year first above written γ

Notary Public, State of

My Commission Expires

[Stamped Notary Seal]

KIM MUNCAN Notary Public, State of New York No. 41-4960923 Qualified in Queens County Commission Expires Jan 2.

P \2372\95\TITLE\TEXAS\HILLS-DE WPD 3 Tdb rm 3/24/99

Warranty Deed

The Hills Austin, Texas

EXHIBIT "A" (Legal Description)

TRACT 1: 162.12 acres of land, more or less, out of the T.C. RR Co. Survey No. 95, the J. H. Lohman Survey No. 523, the H. Hoffmeister Survey No. 469, the W. Fawcett Surveys Nos. 425 and 426, and the C. W. Waldron Survey No. 78, in Travis County, Texas, including all of Lot 773, of the Hills of Lakeway Phase One, a subdivision in Travis County, Texas, according to the map or plat, of record in Volume 79, Pages 324-328, of the Plat Records of Travis County, Texas, and being the same property more fully described by metes and bounds in the field notes attached hereto as Exhibit "A-5".

TRACT 2: Six tracts of land as described in Correction and Supplement to Special Warranty Deed of record in Vol. 12580, Page 893, of the Real Property Records of Travis County, Texas, and being the same property more fully described by metes and bounds in the field notes attached hereto as Exhibit "A-5", Tract 2.

TRACT 3: Easement rights over and across Lots 762, 763, 764, 765, and 766, of the Hills of Lakeway Phase One, a subdivision in Travis County, Texas, according to the map or plat, of record in Volume 79, Pages 324-328, of the Plat Records of Travis County, Texas, as reserved in deed of record in Vol. 10035, Page 131, of the Real Property Records of Travis County, Texas. and being the same property more fully described in the attached Exhibit "A-5", Easement Tract 1.

TRACT 4: Easement rights over and across Lots 829 and 830, of the Hills of Lakeway Phase Three, a subdivision in Travis County, Texas, according to the map or plat, of record in Volume 80, Page 230-232, of the Plat Records of Travis County, Texas, and being the same property more fully described in the attached Exhibit "A-5", Easement Tract 2.

TRACT 5: Golf Cart Easements over and across 2 tracts of land, as created and defined in Golf Cart Easement Agreement dated March 31, 1995, of record in Vol. 12406, Page 2796, of the Real Property Records of Travis County, Texas.

EXHIBIT "A" (Legal Description) The Hills Country Club, Austin, Texas Page 1

Exhibit A-5

A DESCRIPTION OF A 162.12 NET ACRE TRACT OF LAND OUT OF THE TEXAS CENTRAL RAILROAD COMPANY SURVEY NO 195, J.H LOHMAN SURVEY NO 523, H HOFFMEISTER SURVEY NO 469, W FAUCETT SURVEYS NO. 425 AND 426, AND THE C.W WALDRON SURVEY NO. 78, ALL IN TRAVIS COUNTY, TEXAS, BEING A PORTION OF THAT 188.621 TRACT OF LAND AS DESCRIBED IN THAT SPECIAL WARRANTY DEED FROM FEDERAL DEPOSIT INSURANCE CORPORATION TO THE HILLWOOD PROPERTY COMPANY AS EXHIBIT A-5, AND RECORDED IN VOLUME 12384, PAGE 1915 OF THE REAL PROPERTY RECORDS OF TRAVIS COUNTY, TEXAS: SAID 162.12 NET ACRE TRACT, AS SHOWN ON SURVEY RESOURCES, INC. DRAWING NO. CO77-249501-01, AS TRACT 1, SAVE AND EXCEPT THAT CERTAIN 0.14 ACRE TRACT OF LAND AS DESCRIBED IN THAT DEED TO THE HURST CREEK MUNICIPAL UTILITY DISTRICT AS RECORDED IN VOLUME 9228, PAGE 248, THAT CERTAIN 0 732 ACRE TRACT OF LAND DESCRIBED IN THAT SPECIAL WARRANTY DEED TO THE HURST CREEK MUNICIPAL UTILITY DISTRICT, AS RECORDED IN VOLUME 11375, PAGE 79, BOTH OF THE REAL PROPERTY RECORDS OF TRAVIS COUNTY, TEXAS, AND THAT 0.70 ACRE TRACT OF LAND DESCRIBED BELOW: SAID 182.12 NET ACRE TRACT AS SHOWN ON SRI DRAWING NO CO77 249501 01 BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS

Tract 1 - 163.69 Acres:

BEGINNING at a 1/2-inch iron rod found at the southwest corner of Lot 260. The Hills of Lakeway Phase Four, a subdivision of record in Travis County. Texas and recorded in Book 81. Page 123 of the Plat Records of Travis County, Texas, said iron rod being on the north right-of way line of The Hills Onve (60 foot R O W), a private road, as shown on said recorded plat of The Hills of Lakeway Phase Four,

THENCE with the north right-of-way line of the said Hills Drive. THE BEARING BASIS FOR THIS SURVEY, S 86* 49' 10* W, a distance of 930 90 feet to a 1/2-inch iron rod found at a non-tangent point of curvature to the right, said iron rod being at the northwesterily corner of The Hills Drive as shown on the subdivision plat of The Hills of Lakeway Phase Three, a subdivision of record in Travis County, Texas and recorded in Book 80, Page 230, of the Plat Records of Travis County, Texas,

THENCE continuing along the north right-of-way line of The Hills Drive with said curve to the right a distance of 40.95 feet along the arc, having a radius of 1622.84 feet, a central angle of 01° 26' 45° and a subchord which bears S.87° 12' 26° W, a distance of 40.95 feet to a 1/2-inch iron rod found at a point of non-tangent, compound curvature of a curve to the right

THENCE with said curve to the right a distance of 26 07 feet along the arc, having a radius of 15 31 feet, a central angle of 97° 33' 47° and a chord which bears N 43° 07' 53° W a distance of 23 03 feet to a 1/2-inch iron rod found at a non-tangent point of compound curvature of a curve to the right, said iron rod being in the east right-of-way line of Silktassei Lane a private street, as shown on said subdivision plat of The Hills of Lakeway Phase Three,

THENCE with the east right-of-way of said Silktassel Lane the following four (4) courses

- 1 a distance of 21 02 feet along the arc of said curve to the right, having a radius of 25 00 feet, a central angle of 48° 09' 55° and a chord which bears N 30° 44' 02° E, a distance of 20 40 feet to a 1/2-inch iron rod found at a nontangent point of reverse curvature to the left.
- a distance of 42.17 feet along the arc of said curve to the left, having a radius of 50.00 feet, a central angle of 48° 19' 31° and a chord which bears N 30° 36' 52° E, a distance of 40 93 feet to a 1/2-inch iron rod found at the point of termination of said curve,
- N 06" 27' 58" E, a distance of 40 14 feet to a 1/2-inch iron rod found at a nontangent point of a curve to the left, and
- 4: a distance of 37 73 feet along the arc of said curve to the left, having a radius of 50 00 feet, a central angle of 43° 13' 48° and a chord which bears N 15° 12' 21° W, a distance of 36 84 feet to a 1/2-inch iron rod found at the southeast corner of Lot 803 of said Hills of Lakeway Phase Three;

EXHIBIT "A" (Legal Description)

The Hills Country Club, Austin, Texas

THENCE leaving the right-of-way of Silktassel Lane, with the southeast line of said Lot 803, N 70° 31° 13° E, a distance of 150.40 feet to a 1/2-inch iron rod found at the most easterly corner of said Lot 803,

THENCE with the northeast line of The Hills of Lakeway Phase Three and of the Amended Plat of Lots 805 and 806 The Hills of Lakeway Phase Three, as recorded in Book 90, Page 52 of the Plat Records of Travis County, Texas, the following four (4) courses.

- 1 N 65° 11' 56° W, a distance of 299.97 feet to a 1/2-inch iron rod in concrete found.
- 2. N 63" 47' 57" W, a distance of 343 11 feet to a 1/2-inch iron rod found.
- 3. N 50" 39' 51" W, a distance of 239.11 feet to a 1/2-inch iron rod found, and
- 4 \$ 77" 18" 41" W, a distance of 61 32 feet to a 1/2-inch iron rod found at the southeast corner of Common Area 782, The Hills of Lakeway Phase Six, a subdrvision of record in Travis County, Texas, and recorded in Book 81, Page 373 Plat Records of Travis County, Texas.

THENCE with the east line of said Hills of Lakeway Phase Six the following two (2) courses

- N 09° 14' 37° E, a distance of 85 13 feet to a 1/2-inch iron rod found in the south nght-of-way line of Treehaven Lane (60 foot R O W), a private street as shown on said subdivision plat of The Hills of Lakeway Phase Six, and
- 2 N 77° 10' 16" E, with said right-of-way line, a distance of 226 75 feet to a 1/2inch iron rod found at a point of a non-tangent point of curvature to the right for the west corner of a called 5,213 acre tract of land described in a deed from Federal Deposit Insurance Corporation to Lakeway Property Company, Ltd as Exhibit A-5-A, and recorded in Volume 12364, Page 2021, of the Deed Records of Travis County, Texas.

THENCE leaving the east right-of-way of Treehaven Lane, with south line of the said 5 213 acre tract, being a north line of said 188 621 acre tract, the following two (2) courses

- 1 a distance of 23 99 feet along the arc of said curve to the right, having a radius of 17 17 feet, a central angle of 80° 04' 30° and a chord which bears S 68° 21' 43° E, a distance of 22 09 feet to a 1/2-inch iron rod found at a nontangent point of reverse curvature to the left, and
- 2 a distance of 106.42 feet along the arc of said curve to the left, having a radius of 192.61 feet, a central angle of 31° 39' 28° and a chord which bears S.44° 09' 05° E, a distance of 105.07 feet to a point of a non-tangent compound curve.

THENCE leaving said line, over and across said 188 521 acre tract, a distance of 280 73 feet along the arc of said curve to the left, having a radius of 348.00 feet, a cantral angle of 48° 29' 14° and a chord which bears \$ 73° 27' 11° E, a distance of 273 09 feet to a nontangent point in said south line of the 5.213 acre tract, being a north line of said 188 621 acre tract,

THENCE continuing with said south line of the 5 213 acre tract, being a north kne of said 188 621 acre tract, the following four (4) courses.

- 1 S 78° 31° 24° E, a distance of 24.09 feet to a 1/2-inch iron rod found, at a point of curvature to the left.
- 2 a distance of 99.42 feet along the arc of said curve to the left, having a radius of 90.69 feet, a central angle of 62° 48° 50° and a chord which bears N 70° 04' 11° E, a distance of 94 52 feet to a 1/2-inch iron rod found at the point of termination of said curve.

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- 3. N 38" 39' 45" E, a distance of 11.93 feet to a point, and
- 4 S 64" 46' 10" E, a distance of 99.72 feet to a 1/2-inch iron rod found for a south corner of said 5.213 acre tract, being an intenor north corner of said 188.621 acre tract;

THENCE leaving the south line of said 5 213 acre tract, being a north line of said 188.621 acre tract, over and across and 188.621 acre tract, the following four (4) courses and distances.

- 1. S 62" 21' 17" E. a distance of 229 39 feet to a 1/2-inch iron rod sat.
- 2. 5 70° 25' 47° E, a distance of 123 39 feet to a 1/2-inch iron rod set.
- 3. N 26" 51' 54" E. a distance of 213 42 feet to a 1/2-inch iron rod set, and
- 4 N 47" 24' 50" W, a distance of 170 43 feet to a 1/2-inch iron rod found for a northeast corner of said 5.213 acre tract, being an interior southwest corner of said 188.621 acre tract;

THENCE with the north and west lines of said 5.213 acre tract, being interior south and east lines of said 188.621 acre tract, the following seven (7) courses.

- 1. N 08" 17' 28" W, a distance of 131 01 feet to a 1/2-inch iron rod found.
- 2. N 26" 33' 30" W, a distance of 305 14 feet to a 1/2-inch iron rod found.
- 3 N 85" 06" 11" W, a distance of 153 20 feet to a 1/2-inch iron rod found,
- 4 S 22" 57' 23" W, a distance of 216 92 feet to a 1/2-inch iron rod found,
- 5. 5 24° 05' 23" W, a distance of 165 60 feet to a 1/2 inch iron rod found,
- 6 S 27" 51' 42" W, a distance of 129 23 feet to a 1/2 inch iron rod found, and
- 7 S 64" 48' 25" E, a distance of 88 19 feet to a 1/2-inch iron rod set for a nontangent point of curvature to the right in a south line of said 5 213 acre tract, being a north line of said 188 621 acre tract,

THENCE leaving said line, over and across said 188 621 acre tract, a distance of 59 85 feet along the arc of said curve to the right, having a radius of 296 00 feet, a central angle of 11° 35' 04" and a chord which bears 5 75° 01' 18" W, a distance of 59 75 feet to a point in a north line of said 5 213 acre tract, being a south line of said 188 621 acre tract.

THENCE continuing with said north line of the 5 213 acre tract being a south line of said 188 621 acre tract, the following three (3) courses

- 1 N 78* 31' 24* W, a distance of 53 36 feet to a 1/2 inch iron rod found at a point of curvature to the right
- 2 a distance of 176.88 feet along the arc of said curve to the right, having a radius of 939.24 feet, a central angle of 10° 47′ 25° and a chord which bears N 73° 06′ 35° W a distance of 176.62 feet to a 1/2-inch iron rod found at a point of compound curvature, and
- 3 a distance of 15 12 feet along the arc of said curve to the right, having a radius of 142.61 feet, a central angle of 06° 04' 22° and a chord which bears N 64° 40' 32° W, a distance of 15 11 feet to a non-tangent point of compound curvature,

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THENCE leaving said line, over and across said 188 521 acre tract, the following two (2) courses.

- a distance of 70.25 feet along the arc of said curve to the right, having a radius of 296.00 feet, a central angle of 13° 35' 56° and a chord which bears N 42° 33' 15° W, a distance of 70.09 feet to a point of compound curvature, and
- 2. a distance of 21.52 feet along the arc of said curve to the right, having a radius of 15.00 feet, a central angle of 82° 11′ 48° and a chord which bears N.05° 20′ 35° E, a distance of 19.72 feet to a 1/2-inch iron rod found in said south right-of-way line of Treehaven Lane, for a west corner of said 188.621 acre tract, being the most westerily corner of that certain 0.0072 acre tract of land described in a deed from Lakeway Company to J. Clark Nowlin and recorded in Volume 8452, Page 330 Deed Records of Travis County, Texas;

THENCE leaving said right-of-way of Treshaven Lane, with the southeast line of said 0.0072 acre tract and the southeast line of Lot A of the Amended Plat of Lots 480 and 481. The Hills of Lakeway, Phase Six P U.D., a subdivision of record in Travis County, Texas, and recorded in Book 90, Page 154, Plat Records of Travis County, Texas, N 62° 32' 56° E, a distance of 142.14 feet to a 1/2-inch iron rod found.

THENCE with the east line of said Amended Plat of Lots 480 and 481. The Hills of Lakeway. Phase Six P.U.D., and Hills of Lakeway Phase Six, N 27° 56' 18° E, a distance of 287 34 feet to a 1/2-inch iron rod found at the southeast corner of Lot 487-A, Amended plat of Lots 487 and 488. The Hills of Lakeway Phase Six, P U.D., a subdivision of record in Travis County, Texas and recorded in Book 87, Page 1298. Plat Records of Travis County, Texas;

THENCE with the sast line of said amended plat the following three (3) courses.

- 1. N 11" 18' 37" E, a distance of 113.73 feet to a 1/2-inch iron rod found,
- 2. N 02° 34' 35° W, a distance of 92.24 feet to a 1/2-inch iron rod found,
- 3 N 82° 22° 58° W, a distance of 73 24 feet to a 1/2-inch iron rod found at the northwest corner of Lot 488A of said amended plat, said iron rod being in the east kne of common area Lot 773. The Hills of Lakeway Phase Two, a subdivision of record in Travis County, Texas, and recorded in Book 79. Page 388. Plat Records of Travis County, Texas

THENCE with the east line of said Hills of Lakeway Phase Two the following four (4) courses

- 1 N 19" 25' 30" E, a distance of 209 09 feet to a 1/2-inch iron rod found.
- 2. N 15" 16' 09" E, a distance of 306 90 feet to a 1/2-inch iron rod found,
- 3 N 07" 46' 08" E, a distance of 215 59 feet to a 1/2-inch iron rod found, and
- 4 N 40° 09' 55° W, a distance of 21 85 feet to a 1/2-inch iron rod found at the southeast corner of common area Lot 758. The Hills of Lakeway Phase One, a subdivision of record in Travis County, Texas and recorded in Book 79, Page 324. Plat Records of Travis County, Texas,

THENCE with the east line of said Hills of Lakeway Phase One the following four (4) courses

- 1 N 10° 26' 45" E, a distance of 186 76 feet to a 1/2 inch iron rod found.
- 2 N 60" 29' 55" E, a distance of 284 94 fast to a 1/2-inch iron rod found.
- 3 N 26" 50' 26" E, a distance of 170 12 feet to a 1/2-inch iron rod found, and

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4 N 51° 46' 38° E, a distance of 336 93 feet to a 1/2-inch iron rod found at the most easterly common corner of Lots 253 and 773, The Hills of Lakeway Phase One.

THENCE with the common line of said Lots 252 and 773, N 35" 25' 56" W, a distance of 201.53 feet to a 1/2-inch iron rod found at a non-tangent point in a curve to the left in the east right-of-way line of Club Estates Parkway (a ROW of varying width), as shown on the plat of said Hills of Lakaway Phase One, for the most northerly common corner of Lots 252 and 773,

THENCE with the east right-of-way of said Club Estates Parkway the following four (4) courses:

- a distance of 85.07 feet along the arc of said curve to the left, having a radius of 320.00 feet, a central angel of 15° 13' 54° and a chord which bears N 35° 26' 15° E, a distance of 84.82 feet to a 1/2-inch iron rod found at the point of termination of said curve.
- N 27* 44' 53* E, a distance of 163.68 feet to a 1/2-inch iron rod found at a nontangent point of curvature to the left.
- a distance of 458.21 feet along the arc of said curve to the left, having a radius of 565.99 feet, a central angle of 45° 23' 07° and a chord which bears N 04° 33° 20° E, a distance of 445.80 feet to a 1/2-inch iron rod found for the termination of said curve,
- 4 N 18" 37' 29" W, a distance of 32 85 feet to a 1/2-inch iron rod found for the southwest corner of Lot 729;

THENCE leaving the east right-of-way of Club Estates Parkway with the south line of Lot 729. N 48" 41' 00" E, a distance of 164 37 feet to a 5/8-inch iron rod found at the southeast corner of Lot 729:

THENCE with the east line of The Hills of Lakeway Phase One the following six (6) courses

- 1. N 00" 21" 31" E, a distance of 228 03 feet to a 1/2-inch iron rod found,
- 2. N 19" 37" 01" W, a distance of 351.17 feet to a 1/2-inch iron rod found,
- 3. N 01" 00" 55" E, a distance of 476 67 feet to a 1/2-inch iron rod found.
- N 25" 38" 55" E, a distance of 234.54 feet to a 1/2-inch iron rod found on the south nght-of-way of The Hills Drive, as shown on said Hills of Lakeway Phase One.
- 5 with the southeast line of said The Hills Drive as shown on said Hills of Lakeway Phase One, N 22° 52' 55° E a distance of 60 00 feet to a point in a concrete golf cart path, and
- 6 with the north right-of way of said The Hills Drive, N 67° 03' 22" W, a distance of 80 10 feet to a railroad spike found at the southeast corner of "The Masters" at The Hills of Lakeway, a subdivision of record in Travis County, Texas and recorded in Book 85, Page 82A, Plat Records of Travis County, Texas.

THENCE with the east line of "The Masters" at The Hills of Lakeway the following nine (9) courses

- 1 N 22° 53' 09° E, a distance of 116 76 feet to a 1/2-inch iron rod found.
- 2 N 39" 36" 17" E, a distance of 174 27 feet to a PK nail found
- 3 N 56" 46' 48" E. a distance of 203 58 feet to a 1/2 inch iron rod found
- 4 N 69" 05' 22" E, a distance of 314 12 feet to a 1/2-inch iron rod found.

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- 5 N 67" 19" 33" E. a distance of 105 13 feet to a 1/2 inch von rod found
- 6 N 43" 47' 34" E, a distance of 146 71 feet to a 1/2-inch iron rod found,
- 7 N 08" 52' 31" W, a distance of 83.78 feet to a 1/2-inch iron rod found
- 8. N 21" 08" 39" E, a distance of 157 53 feet to a 1/2-inch iron rod found, and
- N 30° 11' 21° W, a distance of 176 41 feet to a 1/2-inch won rod found in the south right-of-way of Lakeway Boulavard (120 foot ROW) as dedicated by Lakeway Section 16-A, a subdivision of record in Travis County, Texas and recorded in Book 59, Page 19, Plat Records of Travis County, Texas.

THENCE with the said south right-of-way of Lakeway Boulevard, the following three (3) courses:

- 1 N 59° 54' 00° E, a distance of 400.27 feet to a 1/2-inch iron rod found at a nontangent point of curvature to the left.
- a distance of 149.84 feet along the arc of said curve to the left, having a radius of 832.98 feet, a central angle of 13° 33' 48° and a chord which bears N 52° 45' 49° E, a distance of 149 49 feet to a 1/2-inch iron rod found for the termination of said curve, and
- 3. N 46° 01' 46° E, a distance of 209.87 feet to a 1/2-inch iron rod found in the west line of a tract of land described in a deed to M&S Properties and recorded in Volume 11228, Page 212, Deed Records of Travis County, Taxas; from which a 1/2-inch iron rod found in the south right-of-way of World of Tennis Bouleverd at a point of curvature to the right bears, N 46° 01' 46° E, a distance of 61.23 feet.

THENCE with said west line of the M&S Tract of land S 24" 09' 35" W, a distance of 119.32 feet to a 1/2-inch iron rod found in the west line of a called 25 006 acre "cct of land described in a deed from David H. Meck to M&S Properties and recorded in Volume 11040, Page 761. Deed Records of Travis County, Texas; from which iron rod found a 1/2-inch iron rod found at the northwest corner of said 25.006 acre tract of land bears N 33" 47' 90" E, a distance of 170.46 feet.

THENCE with the west and south lines of said 25.006 acre tract of land the following four (4) courses:

- 1. S 33" 49' 47" W, a distance of 116.39 feet to a 1/2 inch iron rod found.
- 2. 5 23" 55' 44" W, a distance of 202 47 feet to a 1/2-inch won rod found,
- S 22° 21' 28° W, a distance of 105 19 feet to a 1/2-inch iron rod found in an asphalt golf cart path at the southwest corner of said 25.006 acre tract of land, and.
- 4 S 58° 23' 03° E, a distance of 630 23 feet to a 1/2-inch iron rod found at the most northerity corner of Lot 763 The Hills of Lakeway Phase Nine P U D, a subdivision of record in Travis County, Texas, and recorded in Book 85 Page 190, Plat Records of Travis County, Texas.

THENCE with the west line of said Hills of Lakeway Phase Nine the following nine (9) courses

- 1 S 56" 37' 53" W, a distance of 159 97 feet to a 1/2 inch iron rod found.
- 2. 5 31° 36' 08° W, a distance of 130 01 feet to a 60-D nail found,
- 3. S 27" 20' 56" E, a distance of 220 19 feet to a 1/2-inch won rod found.
- 4. S 68" 46' 05" E, a distance of 93 46 feet to a 1/2-inch iron rod found,

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- 5. S 24" 10' 41" W, a distance of 20 01 feet to a 1/2-inch iron rod found,
- 6 S 68° 32' 15° E, a distance of 126 49 feet to a 1/2-inch iron rod found, at the southeast corner of Lot 768, in the west right-of-way line of Falling Oaks Trail (60 foot ROW), a private street as shown on said plat of The Hills of Lakeway Phase Nine, at a non-tangent point of curvature to the left,
- 7 with the west right-of-way line of said Falling Oaks Trail, a distance of 30 01 feet along the arc of said curve to the left, having a radius of 1028 94 feet, a central angle of 01" 40' 16" and a subchord which bears S 21" 03' 53" W, a distance of 30.01 feet to a 1/2-inch iron rod found at the northeast corner of Lot 769,
- 8 N 68" 32' 42" W, a distance of 208.94 feet to a 1/2-inch iron rod found, and
- S 43" 36" 34" W, a distance of 127 56 feet to a PK nail found for a northeast corner of a called 18.508 acre tract of land described in a deed from Federal Deposit Insurance Corporation to Lakeway Property Company, Ltd. as Exhibit A-5-B, and recorded in Volume 12364, Page 2021, of the Deed Records of Travis County, Texas,

THENCE leaving the west line of said Halls of Lakeway Phase Nine, continuing with the intenor south and east lines of the said 188.821 acre tract, being the north and west lines of the said 18.508 acre tract, the following seven (7) courses:

- 1. N 46" 07' 54" W, a distance of 295.53 feet to a 1/2-inch won rod found.
- 2. 5 63" 39' 25" W, a distance of 137 95 feet to a 1/2-mch won rod found.
- 3. S 43" 49' 30" W, a distance of 225.77 feet to a 1/2-inch iron rod found,
- 4. S 57° 10' 15° W, a distance of 220.04 feet to a 1/2-mch won rod found,
- 5 S 25" 52' 58" W, a distance of 261 09 feet to a 1/2-inch iron rod set.
- 6. N 67" 06" 18" W, a distance of 166.93 feet to a 1/2-inch won rod set, and
- 7 S 37° 10' 34° W, a distance of 61 91 feet to a 1/2-inch iron rod set in a west line of said 18.508 acre tract, being an east line of said 188.621 acre tract;

THENCE leaving said line, over and across said 188 621 acre tract, the following eight (8) courses.

- 1 N 67" 06' 18" W, a distance of 43 40 feet to a 1/2-inch iron rod set.
- S 37" 12' 35" W, a distance of 256 80 feet to a 1/2-inch iron rod set.
- 3. S 15" 12' 12" E, a distance of 172.73 feet to a 1/2-inch iron rod set.
- 4. S 07" 18' 47" E, a distance of 175 56 feet to a 1/2-inch iron rod set.
- 5 S 00" 42' 44" E, a distance of 120 91 feet to a 1/2-inch iron rod set.
- 6 S 20" 51' 18" E. a distance of 176 32 feet to a 1/2 inch won rod set.
- 7 N 86" 26' 12" E, a distance of 59 71 feet to a 1/2 inch iron rod set, and
- 8 N 48° 00' 13° E, a distance of 33 99 feet to a 1/2 inch iron rod set in a south line of said 18 508 acre tract, being a north line of said 188 621 acre tract.

THENCE with the east, south and west lines of said 18 508 acre tract, being the west, north and east lines of said 188 621 acre tract, the following six (6) courses

1. N 89° 09' 34" E, a distance of 48 75 feet to a 1/2-inch won rod found,

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- 2 N 08° 49' 21° W, a distance of 163 21 feet to a 1/2-mch won rod found.
- 3 N 06" 20" 05" E, a distance of 172 98 feet to a 1/2-inch iron rod found,
- 4 N 15° 55' 01° E. a distance of 395 93 feet to a 1/2 mith iron rod set.
- 5 S 67° 06' 18° E, a distance of 241.49 feet to a 1/2-inch iron rod set, and
- 6 S 13" 51' 35" W, a distance of 356 78 feet to a 1/2-inch iron rod found at a west corner of said 18 508 acre tract, being a east corner of said 188 621 acre tract, and being the north corner of Lot 880 of said Hills of Lakeway Phase Nine.

THENCE continuing with the west line of said Hills of Lakeway Phase Nine and south line of the Amended Plats of Lots 865 and 867 Hills of Lakeway P U D Phase 9 as recorded in Book 87. Page 788, Plat Records of Travis County, Texas, the following fifteen (15) courses:

- 1 S 04" 56' 30" W, a distance of 92 15 feet to a 1/2-inch iron rod found.
- 2. S 02" 19' 02" W, a distance of 65 81 feet to a 1/2-inch iron rod found.
- 3. S 07" 00" 57" W, a distance of 402.74 feet to a 1/2-inch iron rod found,
- 4. S 01° 30' 46" E, a distance of 139 65 feet to a 1/2-inch iron rod found.
- 5. N 89" OO' 40" E, a distance of 165.23 feet to a 1/2-inch iron rod found at the southeast corner of Lot 874, in the west right-of-way line of Hedgebrook Way (60 foot ROW), a private street as shown on said recorded plat of The Hills of Lakeway Phase Nine, at a non-tangent point of curvature to the left.
- 8. with the west right-of-way of said Hedgebrook Way, a distance of 30.78 feet along the arc of said curve to the left, having a radius of 338 00 feet, a central angle of 05° 12' 53° and a subchord which bears \$ 13° 34' 20° E, a distance of 30.75 feet to a 1/2-inch iron rod found at the northeast corner of Lot 873.
- Isaving Hedgebrook Way, S 89° 00' 11" W, a distance of 172.64 feet to a 1/2inch won rod found.
- 8. S 01° 31' 05° E, a distance of 48.17 feet to a 1/2-inch iron rod found,
- S 04° 10' 23° E, a distance of 246 81 feet to a 1/2-inch iron rod set.
- 10. S 72" 14' 28" E, a distance of 74 87 feet to a 1/2-inch iron rod found.
- 11 S 85" 35' 26" E, a distance of 61 52 feet to a 1/2-inch iron rod found.
- 12 S 88° 25' 56" E. a distance of 90 56 feet to a 1/2-inch iron rod found,
- 13. S 70° 04' 05° E, a distance of 356.76 feet to a 1/2-inch iron rod found,
- 14. S 88° 29' 02° E, a distance of 273.35 feet to a 1/2-inch iron rod found, and
- 15. S 26° 28' 23° E, a distance of 98 85 feet to a 1/2-inch iron rod found, at the common rear lot corner of Lots 860. The Hills of Lakeway Phase Nine and Lot 596. The Hills of Lakeway Phase Eight, a subdivision of record in Travis County, Texas, and recorded in Book 82, Page 1, Plat Records of Travis County Texas.

THENCE with the west line of said Hills of Lakeway Phase Eight, and with the west line of the Amended Plat of Lots 561 and 562. The Hills of Lakeway Phase Eight as recorded in Book 89. Page 367. Plat Records of Travis County, Texas, and with the west line of the Amended Plat of Lots 551 and 550. The Hills of Lakeway Phase Eight as recorded in Book 90, Page 153. Plat Records of Travis County, Texas the following thirteen (13) courses

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S 46° 08' 47° E a distance of 332 52 feet to a 1/2-inch iron rod found.
S 71° 28' 09° E, a distance of 165 97 feet to a 1/2 inch iron rod found.
S 40° 39' 20° E, a distance of 185 97 feet to a 1/2-inch iron rod found.

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S 00" 26' 07" E. a distance of 168 12 feet to a 1/2 inch iron rod found

- 5 S 21" 24' 47" E. a distance of 321 87 feet to a 1/2-inch won rod found.
- 6 S 14" 37' 05" E, a distance of 182 15 feet to a 1/2 inch iron rod found.
- 7 S 15" O6' 55" E. a distance of 221 50 feet to a 1/2-inch iron rod found
- 8 S 33" 52' 16" W. a distance of 582 08 feet to a 1/2-inch iron rod found
- 9 S 21" 37' 23" W, a distance of 173 55 feet to a 1/2 inch iron rod found
- 10 S 10" 31" 26" W, a distance of 207 03 feet to a 1/2-inch iron rod found.
- 11 S 09" 30" 10" W, a distance of 210 59 feet to a 1/2-inch iron rod lound.
- 12. 5 23" 41' 00" W, a distance of 279 27 feet to a 1/2-inch iron rod found, and
- S 85° 02' 38° W, a distance of 152.88 feet to a 1/2-inch iron rod found at the common rear lot corner of Lots 520 of said The Hills of Lakeway Phase Eight and 286. The Hills of Lakeway Phase Four, a subdivision of record in Book 81. Page 123. Plat Records of Travis County, Texas.

THENCE with the east line of said The Hills of Lakeway Phase Four the following seven (7) courses:

- 1. N 73" 36" 32" W, a distance of 183.71 feet to a 1/2-inch iron rod found.
- 2. N 06" 29' 04" W. a distance of 433.22 feet to a 1/2-inch iron rod found.
- N 00° 21' 02° E, a distance of 342 41 feet to a 1/2-inch iron rod found.
- 4 N 32" 05' 22" E, a distance of 285.02 feet to a 1/2-inch iron rod found.
- 5 N 35" 33' 16" E, a distance of 212.22 feet to a 1/2-inch iron rod found.
- 6. N 31" 12' 02" E, a distance of 99 05 feet to a 1/2-inch iron rod found, and
- 7 N 02" 22' 59" W, a distance of 294 17 feet to a 1/2-inch iron rod found at the common rear lot corner of Lots 307 and 308 of said Hills of Lakeway Phase Four,

THENCE with the north line of said Hills of Lakeway Phase Four the following six (6) courses

- 1 N 75" 56' 26" W, a distance of 167 82 feet to a 1/2-inch iron rod found.
- 2. N 25° 45' 25° W, a distance of 107 80 feet to a 1/2 inch won rod found,
- 3. N 59° 29' 45° W, a distance of 332 70 feet to a 1/2-inch iron rod found.
- N 50" 48' 58" W, a distance of 504.44 feet to a 1/2-inch iron rod found.
- 5. N 84* 10' 23" W, a distance of 111 28 feet to a 1/2-inch iron rod found, and

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6. N 83" 55' 43" W, a distance of 320 44 feet to a 1/2-inch iron rod found at the most northerly rear lot corner in Lot 324, of said The Hills of Lakeway Phase Four, from which a 1/2-inch iron rod found at the common rear lot corner of Lots 324 and 323 bears S 83" 55' 43" E, a distance of 45 68 feet,

THENCE with the west line of said The Hills of Lakeway Phase Four and with the west line of the Amended Plat of Lots 328 and 329. The Hills of Lakeway Phase Four as recorded in Book 88 Page 155. Plat Records of Travis County, Texas, the following seven (7) courses

- 1 S 48° 55' 28° W, a distance of 83 41 feet to a 1/2 mch iron rod found.
- 2 S 43" 19' 01" E a distance of 177 86 feet to a 1/2-inch iron rod found.
- 3 S 02" 18' 43" W, a distance of 93 34 feet to a 1/2 inch iron rod found.
- 4 S 72" 03' 27" W, a distance of 227 79 feet to a 1/2-inch iron rod found.
- 5 S 36" 52' 08" W, a distance of 52 09 feet to a 1/2-inch iron rod found,
- 6 S 19" 42" 08" E, a distance of 164 90 leet to a 1/2-inch iron rod found, and
- 7 S 27° 31° 23° E, a distance of 143 84 feet to a 1/2-inch iron rod found at the most westerly common rear lot corner of Lots 332. The Hills of Lakeway Phase Four, and common area 781, The Hills of Lakeway Phase Five-Amended a subdivision of record in Travis County. Texas, and recorded in Book 81, Page 399. Plat Records of Travis County, Texas,

THENCE with the west line of said The Hills of Lakeway Phase Five-Amended the following nine (9) courses.

- 1 S 33" 45' 41" W, a distance of 255 94 feet to a 1/2-inch iron rod found.
- 2. S 12° 24' 25° W, a distance of 216 05 feet to a 1/2-inch iron rod found.
- 3. S 12° 07' 31° W, a distance of 254 41 feet to a 1/2-inch iron rod found.
- 4. S 23" 49' 29" W, a distance of 93.79 feet to a 1/2-inch iron rod found.
- 5. S 02° 38' 53° W, a distance of 249 81 feet to a 1/2-inch won rod found.
- S 20" 44' 38" E, a distance of 293 67 feet to a 1/2-inch iron rod found.
- 7 S 25° 33' 32° E, a distance of 137 58 feet to a 1/2-inch iron rod found.
- 8. S 05" 04" 12" E, a distance of 239 63 feet to a 1/2-inch iron rod found, and
- 9 \$ 15" 49' 28" W, a distance of 10 45 feet to a 1/2-inch iron rod found at the common rear lot corner of common area 780. The Hills of Lakeway Phase Five-Amended and Lot 261. The Hills of Lakeway Phase Four.

THENCE with the west line of Lots 261 and 260, The Hills of Lakaway Phase Four the following two (2) courses.

- 1. S 15° 32' 05° W, a distance of 150 66 feet to a 1/2-inch iron rod found, and
- 2. S 04" 16' 29" E, a distance of 89 19 feet to the POINT OF BEGINNING and containing 163 69 acres of land

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Save and Except 0.14 Acres:

COMMENCING at a 1/2-inch iron rod found in the southwest line of that certain 25.006 acre tract described in the deed to M&S Properties as recorded in Volume 11040, Page 781 of the Travis County, Texas Real Property Records, being the most northerly corner of Lot 763 of The Hills of Lakaway Phase Nine, a subdivision of record in Book 85, Page 19D of the Travis County, Texas Plat Records;

THENCE leaving said Phase Nine P U.D., with the south line of said 25.008 acre tract, being a north line of said 188.621 acre tract, N 58° 23' 03° W, a distance of 207 78 feet:

THENCE leaving said 25 006 acre tract and crossing said 168 621 acre tract, S 31° 36' 57° W, a distance of 82.92 feet to a found chain link fence corner post being the POINT OF BEGINNING and being the northeast corner hereof,

THENCE continuing to cross said 188 621 acre tract the following five (5) courses

- 1 S 09" 15' 03" E, a distance of 90 30 feet to a found chain link fence post being the southeast corner hereof.
- 2 S 41° 27' 12" W, a distance of 10 79 feet to a found chain link fence post.
- S 82" 05" 53" W a distance of 56 30 feet to a found chain link fence post being the southwest corner hereol
- 4 N 07" 54" 07" W, a distance of 95 83 feet to a found chain link fence post being the northwest corner hereof and
- 5 N 80° 44' 57° E, a distance of 62 38 feet to the POINT OF BEGINNING and containing 0 14 acres of land

Save and Except 0.732 Acres:

BEGINNING at a chain link fence corner found at the northwest corner of a 0.14 acre tract of land conveyed to Hurst Creek Municipal Utility District by deed recorded in Volume 9228, Page 248, Travis County Deed Records, same being the most northerly northeast corner hereot,

THENCE S 07" 54' 07" E, a distance of 95 83 feet, along the west line of the said 0 14 acre tract of land, to a point for the southwest comer of the said 0 14 acre tract of land;

THENCE N 82" 05' 53" E, a distance of 58 30 feet, along the south line of the said 0 14 acre tract of land, to a chain link fence corner found at a southeast corner of said 0 14 acre tract of land, same being the most easterly northeast corner hereof,

THENCE over and across a portion of the said 189.493 acre tract of land, the following eight (8) courses:

- 1. S 03" 48' 16" E, a distance of 59.72 feet to an iron rod found,
- S 47" 32' 53" W, a distance of 161 61 feet to an iron rod found, same being the most southerly comer hereof;
- 3. N 47° 29' 24° W, a distance of 29 46 feet to an won rod found,
- 4 N 33° 30' 51° W, a distance of 85.52 feet to an won rod found.
- 5. N 02" 38' 44" E, a distance of 91 66 feet to an iron rod found.
- N 11* 28' 11" E, a distance of 77 94 feet to an iron rod found, same being the northwest corner hareol,

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- 7 N 87" 40' 52" E, a distance of 41 76 feet to an angle point, and
- S 84" 42' 07" E, a distance of 54 05 feet to the POINT OF BEGINNING and containing 0.732 acres of land

Save and Excapt 0.70 Acres:

BEGINNING at a 1/2-inch iron rod found at the northeast corner of Lot 713, The Hills of Lakeway Phase One, a subdivision of record in Travis County, Texas and recorded in Book 79. Page 324 of the Plat Records of Travis County, Texas, said iron rod being on the south right-of-way line of The Hills Drive (60 foot R.O.W.), a private road, Lot 774, as shown on said recorded plat of The Hills of Lakeway Phase One, and being on the west line of said 188.621 acre tract, for the west corner of the herein described 0.70 acre tract;

THENCE with the east line of said The Hills Drive, Lot 774, as shown on said Hills of Lakeway Phase One, being the west line of said 188 621 acre tract, N 22* 52' 55° E, a distance of 60 00 feet to a point in a concrete golf cart path, for the north corner of the herein described 0 70 acre tract;

THENCE leaving the east line of said The Hills of Lakeway. Phase One, over and across said 188.621 acre tract, S 67° 06' 18° E, a distance of 516 18 feet to a 1/2-inch iron rod set for a northwest corner of a called 18 508 acre tract of land described in a deed from Federal Deposit Insurance Corporation to Lakeway Property Company. Ltd. as Exhibit A-5-8, and recorded in Volume 12364, Page 2021, of the Deed Records of Travis County, Texas, being a southeast corner of said 188.621 acre tract and the northeast corner of the herein described 0.70 acre tract.

THENCE with a west line of said 18 508 acre tract, being an east line of said 188 621 acre tract S 37" 10' 34" W, a distance of 61 91 feet to a 1/2 inch iron rod set.

THENCE leaving said line and crossing said 188 621 acres tract, N 67" 06" 18" W, a distance of 500 89 feet to the POINT OF BEGINNING and containing 0 70 acres of land

Together with the following essenats:

Excement Tract 1: A Blanket Easement reserved in a deed reserved in Volume 10035, Page 132, Real Property Records of Travis County, Taxes, for the flowage of water for irrigation of Gelf Course over and across Lots 762, 763, 764, 765 and 766, The Hills of Lakeway Phase One, a subdivision recorded in Book 79, Pages 324-328, Flat Recepts, Travis County, Texas.

Extensent Tract 1: A Gelf Course Appurtement Extensent ever and astrong Lets \$29 and \$30. The Mills of Lakoway Phase Three, a subdivision in Travis County, Texas, according to the map or plat thareof recorded in Book \$0. Page 130. Plat Records of Travis County, Texas, located as shown on such recorded plat.

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EXHIBIT "A-5" - TRACT 2

A DESCRIPTION OF 5 TRACTS OF LAND CONTAINING 0.60 ACRES OF LAND OUT OF THE H HOFFMEISTER SURVEY NO 469, AND THE W FAUCETT SURVEYS NO 425 AND 426, ALL IN TRAVIS COUNTY, TEXAS, BEING A PORTION OF A 5.213 ACHE TRACT AND A 18.508 ACRE TRACT OF LAND AS DESCRIBED IN THAT SPECIAL WARRANTY DEED FROM FEDERAL DEPOSIT INSURANCE CORPORATION TO LAKEWAY PROPERTY COMPANY, LTD AS EXHIBIT A-5-A, AND EXHIBIT A-5-8, AS RECORDED IN VOLUME 12384. PAGE 2021 OF THE REAL PROPERTY RECORDS OF TRAVIS COUNTY, TEXAS, SAID 5 TRACTS, AS SHOWN ON SURVEY RESOURCES, INC. DRAWING NO. C077-249501-01, BEING THE TOTAL OF TRACTS 2 THROUGH 8 AS SHOWN ON SRI DRAWING NO. C077-249501-01, AND BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS.

Trat 2 - 0.01 Acres:

CODIBLETICITIES at a 1/2-inch iron rod found at the northeast corner of Common Area 782, being in the south right-of-way kne of Treehaven Lane (60 foot R.O.W.I. a private street, as shown on The Hills of Lakeway Phase Six, a subdivision of record in Travis County, Texas, and recorded in Book 81, Page 373 Plat Records of Travis County, Texas, and being a west corner of that cartain 188,621 acre tract of land described in a deed from Federal Deposit Insurance Corporation to Hillwood Property Company as Exhibit A-5, and recorded in Volume 12364, Page 1915, of the Deed Records of Travis County, Texas;

THENCE with said right-of-way line, being a northwest line of said 188.521 acre tract. N 77" 10" 15" E, a distance of 228.75 leet 1/2-inch iron rod found for the west corner of said 5,213 acre tract and the POINT OF BEGINNING of the herein described 0.01 acre tract of land;

THENCE continuing with said right-of-way line of Treehaven Lane, being a northwest line of said 5.213 acre tract, N 77" 10" 16" E, a distance of 8 30 feet 1/2-inch iron rod set at a non-tangent point of curvature to the right;

THENCE leaving the south right-of-way of said Treenaven Lane, over and across said 5.213 acre tract, the following two (2) courses and distances:

- 1 a distance of 18 36 feet along the arc of said curve to the right, having a radius of 15 00 feet, a central angle of 70° 06' 47" and a chord which bears 5 67° 46' 20° E, a distance of 17 23 feet to a 1/2-inch iron rod set at a point of reverse curvature, and
- 2. a distance of 105 64 feet along the arc of said curve to the left, having a radius of 346 00 feet, a central angle of 17° 29' 38° and a chord which bears 5 41° 27' 46° E, a distance of 105 23 feet to a non-tangent point of reverse curvature in a south line of the said 5 213 acre tract, being a north line of said 188 621 acre tract.

THENCE with the south line of said 5 213 acre tract, being a north line of said 188.621 acre tract, the following two (2) courses and distances.

- 1 a distance of 106.42 feet along the arc of said curve to the right, having a radius of 192.61 feet, a central angle of 31° 39' 28° and a chord which bears N.44° 09' 05° W, a distance of 105.07 feet to a point of reverse curvature, and
- a distance of 23.99 feet along the arc of said curve to the left, having a radius of 17 17 feet, a central angle of 80° 04' 30° and a chord which beers N 68° 21' 43° W, a distance of 22.09 feet to the POINT OF BEGINNING and containing 0.01 acres of land.

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Tract 3 . 0.07 Acres:

COMMENCING at a 1/2-inch iron rod found for the most westerly comer of that cartain 0.0072 acre tract of land described in a deed from Lakeway Company to J. Clark Nowlin and recorded in Volume 8452, Page 330 Deed Records of Travis County, Texas, being in the curving south rightof-way line of said Treshaven Lane for a north comer of said 5 213 acre tract, being a west corner of said 188,621 acre tract;

THENCE with said south right-of-way of Treehaven Lane, a distance of 4.96 feet along the arc of said curve to the right, having a radius of 80.00 feet, a central angle of 03° 33' 12° and a chord which bears 5.49° 38' 27° W, a distance of 4.95 feet to a 1/2-inch iron rod found at a point of reverse curveture,

THENCE leaving said right-of-way kne, with a north line of said 5.213 acre tract, being a south line of said 188.621 acre tract the following two (2) courses and distances:

- 1 a distance of 21 60 feet along the arc of said curve to the left, having a racius of 15.00 feet, a central angle of 82° 30' 28° and a chord which bears S 08° 34' 20° W, a distance of 19.78 feet to a 1/2-inch iron rod found at a point of compound curvature, and
- 2. a distance of 72.08 last along the arc of said curve to the laft, having a rackus of 142.61 feet, a central angle of 28° 57' 32° and a chord which bears \$ 47° 09' 35° E, a distance of 71.32 feet to a point of compound curvature, and the POINT OF BEGINNING of the herein described 0.07 acre tract;

THENCE continuing with the north line of said 5 213 acre tract, being a south line of said 188.621 acre tract the following three (3) courses and distances.

- 1 a distance of 15.12 feet along the arc of said curve to the left, having a radius of 142.51 feet, a central angle of 05° 04' 22° and a chord which bears S 64° 40' 32° E, a distance of 15 11 feet to a 1/2-inch which found at a point compound curvature.
- a distance of 176.88 feet along the arc of said curve to the left, having a radius of 939.24 feet, a central angle of 10° 47' 25" and a chord which bears 5.73" 06' 35" E, a distance of 176.52 feet to a 1/2 inch iron rod found at the point of termination of said curve, and
- S 78" 31' 24" E, a distance of 53 36 feet to a non-tangent point of curvature to the right,

THENCE leaving said line, over and across said 5 213 acre tract, a distance of 252,28 feet along the arc of said curve to the right, having a radius of 296 00 feet, a central angle of 48° 49′ 56° and a chord which bears N 73° 48′ 11° W a distance of 244 71 feet to the POINT OF BEGINNENG and containing 0 07 acres of land

Tract 4 - 0.03 Acres:

- COMMENCING at a 1/2-inch iron rod found at the northeast corner of Common Area 782, being in the south right-of-way line of Trashaven Lane (60 foot R 0.W), a private street, as shown on The Hills of Lakeway Phase Six, a subdivision of record in Travis County, Texas, and recorded in Book 81, Page 373 Plat Records of Travis County, Texas, and being a west corner of that certain 188.621 acre tract of land described in a deed from Federal Deposit insurance Corporation to Hillwood Property Company as Exhibit A-5, and recorded in Volume 12364, Page 1915, of the Deed Records of Travis County, Texas;

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THENCE with said right-of-way line, being a northwest line of said 188.821 acre tract. N 77" 10" 16" E. a distance of 228.75 feet 1/2-inch iron rod found at a point of a non-tangent point of curvature to the right, for the west corner of said 5.213 acre tract, being a northwest corner of said 188.621 acre tract.

THENCE leaving the south right-of-way of said Treehaven Lane, with a south line of said 5.213 acre tract, being a north line of said 188.521 acre tract, the following four (4) courses and distances:

- 1 a distance of 23.99 feet along the arc of said curve to the nght, heving a radius of 17 17 feet, a central angle of 80° 04' 30° and a chord which beers 5 68° 21' 43° E, a distance of 22.09 feet to a 1/2-inch iron rod found at a point of reverse curvature.
- a distance of 132.42 fest along the arc of said curve to the left, having a radius of 192.61 feet, a central angle of 39° 23' 29° and a chord which bears 5.48° 01' 05° E, a distance of 129.83 feet to a 1/2-inch iron rod found at a point of compound curvature.
- 3. a distance of 186.30 feet along the arc of said curve to the left, having a radius of 989.24 feet, a central angle of 10° 47' 25° and a chord which beers S 73° 06' 32° E, a distance of 186.02 feet to a 1/2-inch iron rod found at the point of terministion of said curve, and
- S 78" 31" 24" E, a distance of 61 70 feet to a non-tangent point of curvature to the left and the POINT OF BEGINNING of the herein described 0.03 acre tract of land;

THENCE leaving said line, over and across said 5.213 acre tract, the following two (2) courses and distances:

- 1 a distance of 125.91 feet along the arc of said curve to the left, having a radius of 346.00 feet, a central angle of 20° 51' 00° and a chord which bears N 72° 52° 41° E, a distance of 125.22 feet to a 1/2-inch iron rod set, and
- S 64" 46" 10" E. a distance of 0 28 feet to a south corner of said 5 213 acre tract, being a north corner of said 188 621 acre tract;

THENCE with a south line of said 5 213 acre tract, being a north line of said 188 621 acre tract the following three (3) courses and distances.

- 1 S 38" 39' 46" W a distance of 11 93 feet to a 1/2-inch iron rod found at a point of curvature to the right.
- a distance of 99.42 feet along the arc of said curve to the right, having a radius of 90.69 feet. a central angle of 52° 48' 50° and a chord which bears 5 70° 04' 11° W, a distance of 94 52 feet to a 1/2-inch iron rod found at the point of termination of said curve, and
- 3 N 78" 31" 24" W, a distance of 24.09 feet to the POINT OF SEGINNING and containing 0.03 acres of land

Trest 5 . 0.40 Acres:

SEGINNENG at a 1/2-inch iron rod found in a golf course sand trap for the most northwest corner of said 5.213 acre tract, being an intenor corner of said 188.521 acre tract, and being the northwest corner of the herein described 0.40 acre tract;

EXHIBIT "A" (Legal Description) The Hills Country Club, Austin, Texas

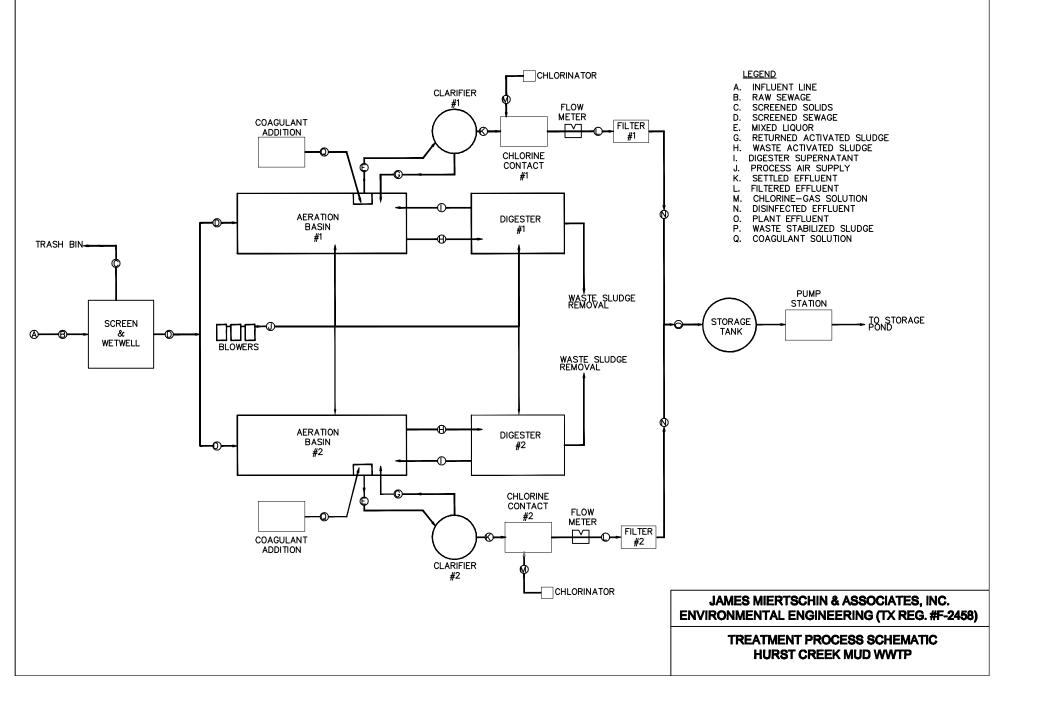
EXHIBIT "B"

٠,

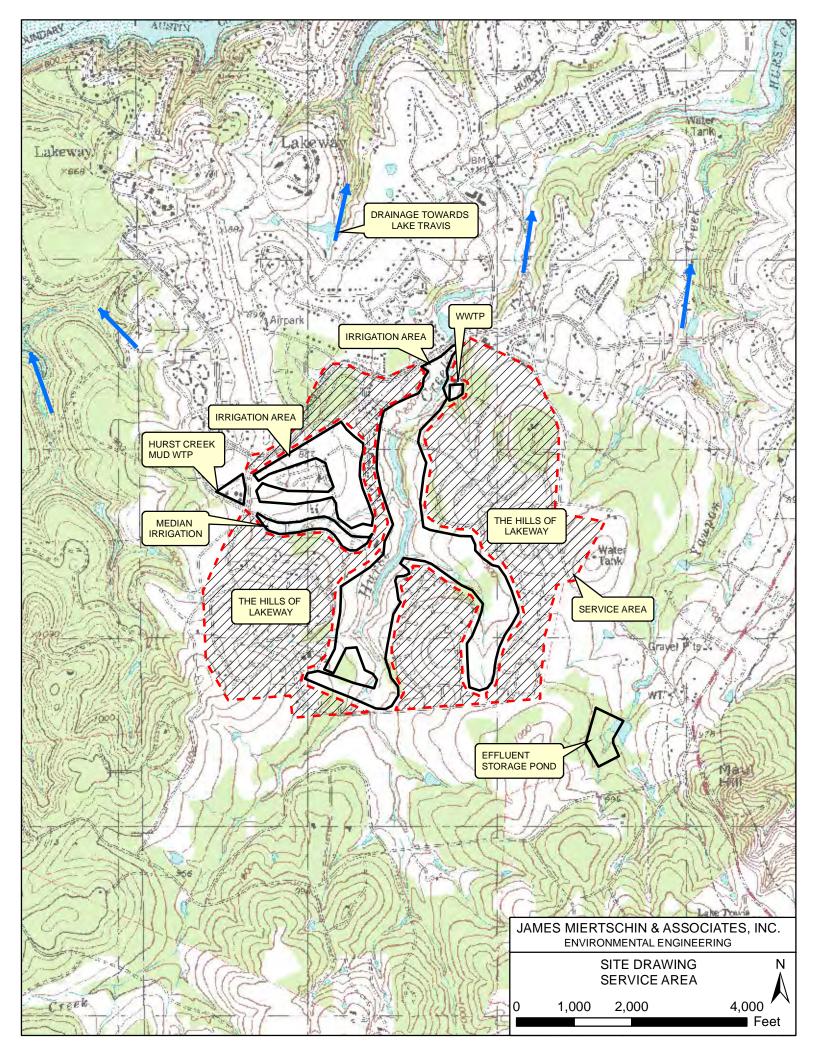
(Certificate of Merger attached hereto)

.....

Flow Diagram



Site Drawing



Pollutant Analysis of Effluent

email information for report date: 4/10/24 14:36

H008587

HURST CREEK MUD

Attn: BOBBY GOMEZ bgomez@ev1.net

102 TROPHY DRIVE AUSTIN, TX 78738

Please contact us for your sampling needs or if you have any questions. Some convenient contacts are listed below. You can also access your results and reports through our ClientConnect ™ portal on our website (www.aqua-techlabs.com).

For sampling questions:

samplingbryan@aqua-techlabs.com (Bryan area) samplingaustin@aqua-techlabs.com (Austin area)

reporting@aqua-techlabs.com (report questions)

Aqua-Tech values you as a customer and encourages you to speak with our staff at 979-778-3707 or the above emails if you have questions.

Thank you for your business, June M. Brien Executive Technical Director **BRYAN FACILITY** 635 Phil Gramm Boulevard Bryan, TX 77807 Phone: (979) 778-3707 Fax: (979) 778-3193



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The analyses summarized in this report were performed by Aqua-Tech Laboratories, Inc. unless otherwise noted. Aqua-Tech Laboratories, Inc. holds accreditation from the State of Texas in accordance with TNI and/or through the TCEQ Drinking Water Commercial Laboratory Approval Program.

The following abbreviations indicate certification status:

- NEL TNI accredited parameter.
- ANR Accreditation not offered by the State of Texas.
- DWP Approval through the TCEQ Drinking Water Commercial Laboratory Approval Program.
- INF Aqua-Tech Laboratories, Inc. is not accredited for this parameter. It is reported on an informational basis only.

Subcontracted data summarized in this report is indicated by "Sub" in the Lab column.

General Definitions:

- NR Not Reported.
- RPD Relative Percent Difference.
- % R Percent Recovery.
- dry Results with the "dry" unit designation are reported on a "dry weight" basis.
- SQL The Sample Quantitation Limit is the value below which the parameter cannot reliably be detected. The SQL includes all sample preparations, dilutions and / or concentrations.
- Adj MDL The Adjusted Method Detection Limit is the MDL value adjusted for any sample dilutions or concentrations .
 - MDL The Method Detection Limit is the lowest theoretical value that is statistically different from zero for a specific method, taking into account all preparation steps and instrument settings.

All samples are reported on an "as received" basis unless the designation "dry" is added to the reported unit.

Copies of Aqua-Tech Laboratories, Inc. procedures and individual sampling plans are available upon request. Note that samples are collected by Aqua-Tech Laboratories, Inc. personnel unless otherwise noted in the "Sample Collected" field of this report as "Client" or "CLT".

Samples included in this report were received in acceptable condition according to Aqua-Tech Laboratories, Inc. procedures and 40 CFR, Chapter I, Subchapter D, Part 136.3, TABLE II. - *Required containers, preservation techniques, and holding times*, unless otherwise noted in this report.

Record Retention:

All reports, raw data, and associated quality control data are kept on file for 10 years before being destroyed. Any client that would like copies of records must contact Aqua-Tech Laboratories, Inc. no later than six months prior to the scheduled disposal. An administrative fee for retrieval and distribution will apply.

This report was approved by:

June M. Brien June M. Brien, Technical Director

The results in this report apply only to the samples analyzed. This analytical report must be reproduced in its entirety unless written permission is granted by Aqua-Tech Laboratories, Inc.

corp@aqua-techlabs.com

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Certificate: T104704371-23-27



TCEQ Lab ID T104704371

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Analytical Report

HURST CREEK MUD

4/10/24

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H008587

14:36

Hurst Creek MUD WWTP Short	Permit		3/24 12:25 by Bryce 3/24 13:45 by Bryce			<i>Type</i> Grab		<i>Matrix</i> Non P		D-C # A	
Lab ID# H008587-01	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
Field Parameters											
Field pH	7.5	pH Units		0.01	0.01	0.1	Austin	At Collection	SM4500-H+ B 2011	M174452	ANR
Total Residual Chlorine	5.1	mg CI as CL2/L			0.20	0.20	Calc	At Collection	SM4500-CI F 2011	[CALC]	ANR
General Chemistry											
Carbonaceous BOD (5 day)	2	mg/L		1	1	1	Austin	03/14/24 07:00 MSA	SM5210 B 2016	M174646	NEL
Total Suspended Solids	<1	mg/L	RPD-04	1	1	1	Austin	03/14/24 09:54 KHA	SM2540 D 2015	M174665	NEL
Total Dissolved Solids	642	mg/L		25.0	50.0	50.0	Austin	03/18/24 10:43 SR	SM2540 C 2015	M174805	NEL
Ammonia as N	0.06	mg/L		0.05	0.05	0.05	Bryan	03/19/24 14:21 KMA	SM4500-NH3 G 2011	M174863	NEL
Total Kjeldahl Nitrogen as N	<0.20	mg/L		0.13	0.13	0.20	Bryan	03/21/24 12:56 KMA	EPA 351.2 R2.0	M174809	NEL
Nitrate as N	26	mg/L			0.43	0.50	Calc	03/27/24 11:50 BEB	SM4500-NO3-F 2011	[CALC]	NEL
Nitrite as N	<0.01	mg/L		0.002	0.002	0.01	Austin	03/14/24 13:30 BEB	SM4500 NO2- B 2011	M174699	NEL
Nitrate/Nitrite as N	26	mg/L		0.02	0.43	0.50	Bryan	03/27/24 11:50 KMA	SM4500-NO3-F 2011	M175207	ANR
Chloride	161	mg/L		0.60	2.41	20.0	Austin	03/18/24 09:00 MSA	SM4500-CI- B 2011	M174781	NEL
Sulfate as SO4(2-)	79.9	mg/L		2.63	10.5	20.0	Austin	03/19/24 08:54 KFB	ASTM D0516-16	M174854	NEL
Specific Conductance (adjusted to 25.0°C)	1120	uS/cm		2.00	2.00	2.00	Austin	03/18/24 08:15 MSA	SM2510 B 2011	M174776	NEL
Microbiological Analyses											
E. Coli	<1.0	MPN/100 mL		1.0	1.0	1.0	Austin	03/13/24 15:08 ACG	SM9223 B 2004	M174635	NEL
Results run by SM 9223B are reported	as MPN (Most Pro	bable Number). MPN	is comparable to CFL	J (Colony Form	ing Units). E	oth MPN a	and CFU ar	e allowed in most permits	•		
Metals (Total)											
Phosphorus-Total	0.772	mg/L		0.082	0.041	0.050	Austin	03/20/24 17:50 KT	EPA 200.7 R4.4	M174708	NEL
O&G Analysis cancelled due to improper p	preservation.										

	Explanation of Notes										
BOD-07	Optional second BOD/CBOD GG was outside expected range. Results accepted on one required passing GG.										
RPD-04	Visual evaluation of the Duplicate sample indicates the RPD is above the control limit due to a non-homogeneous sample matrix. Acceptance of run is not based on matrix QC.										

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Analytical Report

HURST CREEK MUD

4/10/24

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Field Parameters - Quality Control														
	Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch	
Chlorine Residua	al, Total - SM4	500-CI F 2011												Austin
Duplicate	1.5	mg/L		0.1	0.1	03/13/24 10:20 BLJ		1.5			0.00	10.2	M174452	
Field pH - SM450	0-H+ B 2011													Austin
Duplicate	7.4	pH Units		0.01	0.1	03/13/24 10:20 BLJ		7.4			0.00	0.551	M174452	

				(General C	hemistry - Quality Co	ontrol							
	Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch	
Ammonia as N - SI	M4500-NH3	G 2011												Bryan
Initial Cal Check	1.04	mg/L				03/19/24 14:21 KMA	1.00		104	90 - 110			2403211	
Low Cal Check	0.05	mg/L				03/19/24 14:21 KMA	0.0500		94.0	70 - 130			2403211	
Blank	<0.05	mg/L		0.05	0.05	03/19/24 14:21 KMA							M174863	
LCS	0.48	mg/L		0.05	0.05	03/19/24 14:21 KMA	0.500		95.2	85 - 115			M174863	
LCS Dup	0.48	mg/L		0.05	0.05	03/19/24 14:21 KMA	0.500		96.0	85 - 115	0.837	20	M174863	
Matrix Spike	0.56	mg/L		0.05	0.05	03/19/24 14:21 KMA	0.500	0.07	97.8	70 - 130			M174863	
Matrix Spike Dup	0.56	mg/L		0.05	0.05	03/19/24 14:21 KMA	0.500	0.07	97.4	70 - 130	0.410	20	M174863	
Carbonaceous BO	D (5 day) - S	SM5210 B 201	6											Austin
Diln Water Blk	<0.20	mg/L		1	1	03/14/24 07:00 MSA		0.1		< or = 0.2 mg/L			2403147	
GGA	193	mg/L		1	1	03/14/24 07:00 MSA	198		97.5	84.6 - 115.4			2403147	
GGA	160	mg/L	BOD-07	1	1	03/14/24 07:00 MSA	198		80.8	84.6 - 115.4			2403147	
GGA	168	mg/L		1	1	03/14/24 07:00 MSA	198		84.8	84.6 - 115.4			2403147	
Seed Blank	<1	mg/L		1	1	03/14/24 07:00 MSA							2403147	
Seed Blank	<1	mg/L		1	1	03/14/24 07:00 MSA							2403147	
Seed Blank	<1	mg/L		1	1	03/14/24 07:00 MSA							2403147	
Duplicate	2	mg/L		1	1	03/14/24 07:00 MSA		2			13.2	47.7	M174646	
Chloride - SM4500	-CI- B 2011													Austin
Initial Cal Check	50.2	mg/L				03/18/24 09:00 MSA	50.0		100	90 - 110			2403190	
Blank	<5.00	mg/L		0.60	5.00	03/18/24 09:00 MSA							M174781	
LCS	20.4	mg/L		0.60	5.00	03/18/24 09:00 MSA	19.8		103	90 - 110			M174781	
LCS Dup	20.4	mg/L		0.60	5.00	03/18/24 09:00 MSA	19.8		103	90 - 110	0.00	5.86	M174781	
Matrix Spike	296	mg/L		2.41	20.0	03/18/24 09:00 MSA	79.2	216	101	83.4 - 113			M174781	
Matrix Spike Dup	299	mg/L		2.41	20.0	03/18/24 09:00 MSA	79.2	216	105	83.4 - 113	4.65	10.7	M174781	
MRL Check	5.21	mg/L		0.60	5.00	03/18/24 09:00 MSA	4.95		105	70 - 130			M174781	

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Analytical Report

HURST CREEK MUD

4/10/24

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					General (Chemistry - Quality C	ontrol							
	Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch	
Mn Interference - S	SM4500-CI F	2011												Austin
Duplicate	0.2	mg/L		0.1	0.1	03/18/24 13:50 BAL		0.2			0.00	7.47	M174832	
Nitrate/Nitrite as N	I - SM4500-N	NO3-F 2011												Bryan
Initial Cal Check	1.0	mg/L				03/27/24 11:50 KMA	0.959		104	90 - 110			2403316	
Low Cal Check	0.02	mg/L				03/27/24 11:50 KMA	0.0200		100	70 - 130			2403316	
Blank	<0.02	mg/L		0.02	0.02	03/27/24 11:50 KMA							M175207	
LCS	0.53	mg/L		0.02	0.02	03/27/24 11:50 KMA	0.500		106	89.5 - 111			M175207	
LCS Dup	0.53	mg/L		0.02	0.02	03/27/24 11:50 KMA	0.500		106	89.5 - 111	0.188	10	M175207	
Matrix Spike	7.8	mg/L		0.10	0.12	03/27/24 11:50 KMA	5.00	2.9	96.7	80.1 - 118			M175207	
Matrix Spike Dup	7.8	mg/L		0.10	0.12	03/27/24 11:50 KMA	5.00	2.9	96.9	80.1 - 118	0.186	10	M175207	
Nitrite as N - SM45	500 NO2- B	2011												Austin
Initial Cal Check	0.07	mg/L				03/14/24 13:30 BEB	0.0736		100	90 - 110			2403164	
Blank	<0.01	mg/L		0.002	0.01	03/14/24 13:30 BEB							M174699	
Filtered Blank	<0.01	mg/L		0.002	0.01	03/14/24 13:30 BEB							M174699	
LCS	0.08	mg/L		0.002	0.01	03/14/24 13:30 BEB	0.0800		106	90 - 110			M174699	
LCS Dup	0.09	mg/L		0.002	0.01	03/14/24 13:30 BEB	0.0800		109	90 - 110	3.34	10	M174699	
Matrix Spike	0.08	mg/L		0.002	0.01	03/14/24 13:30 BEB	0.0800	0.01	87.9	57 - 116			M174699	
Matrix Spike Dup	0.09	mg/L		0.002	0.01	03/14/24 13:30 BEB	0.0800	0.01	89.2	57 - 116	1.52	10	M174699	
MRL Check	0.01	mg/L		0.002	0.01	03/14/24 13:30 BEB	0.0100		98.8	70 - 130			M174699	
Initial Cal Check	0.08	mg/L				10/06/23 11:00 MSA	0.0800		106	90 - 110			2310075	
Specific Conducta	ince (adjust	ed to 25.0°C) - S	SM2510 B 2011											Austin
Initial Cal Check	520	uS/cm				03/18/24 08:15 MSA	545		95.4	90 - 110			2403187	
Blank	<2.00	uS/cm		2.00	2.00	03/18/24 08:15 MSA							M174776	
Duplicate	1120	uS/cm		2.00	2.00	03/18/24 08:15 MSA		1120			0.267	10	M174776	
LCS	1400	uS/cm		2.00	2.00	03/18/24 08:15 MSA	1410		99.5	90 - 110			M174776	

Analytical Report

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	Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch
Sulfate as SO4(2-)	- ASTM D05	16-16											Aus
Initial Cal Check	31.9	mg/L				03/19/24 08:54 KFB	30.0		106	90 - 110			2403208
Low Cal Check	4.85	mg/L				03/19/24 08:54 KFB	5.00		97.0	70 - 130			2403208
Blank	<5.00	mg/L		2.63	5.00	03/19/24 08:54 KFB							M174854
Duplicate	65.1	mg/L		10.5	20.0	03/19/24 08:54 KFB		71.7			9.69	11.8	M174854
LCS	11.0	mg/L		2.63	5.00	03/19/24 08:54 KFB	10.0		110	85 - 115			M174854
LCS Dup	9.99	mg/L		2.63	5.00	03/19/24 08:54 KFB	10.0		99.9	85 - 115	9.58	13.5	M174854
Matrix Spike	113	mg/L		10.5	20.0	03/19/24 08:54 KFB	40.0	71.7	104	67.7 - 129			M174854
Matrix Spike Dup	111	mg/L		10.5	20.0	03/19/24 08:54 KFB	40.0	71.7	99.4	67.7 - 129	4.49	15	M174854
Initial Cal Check	28.9	mg/L				05/19/23 13:33 BEB	30.0		96.4	85 - 115			2305280
Fotal Dissolved So	olids - SM25	40 C 2015											Aus
Blank	<25.0	mg/L		25.0	25.0	03/18/24 10:43 SR							M174805
Duplicate	812	mg/L		100	100	03/18/24 10:43 SR		808			0.494	10	M174805
Reference	464	mg/L		100	100	03/18/24 10:43 SR	507		91.5	66 - 140			M174805
Total Kjeldahl Nitr	ogen as N -	EPA 351.2 R2.0											Brya
Initial Cal Check	4.66	mg/L				03/21/24 12:56 KMA	4.56		102	90 - 110			2403217
ow Cal Check	0.22	mg/L				03/21/24 12:56 KMA	0.200		109	70 - 130			2403217
Low Cal Check		mg/L		0.13	0.20	03/21/24 12:56 KMA							M174809
	<0.20	ing/L							110	80 - 120			M174809
Blank	<0.20 4.41	mg/L		0.13	0.20	03/21/24 12:56 KMA	4.00		110				
Blank LCS				0.13 0.13	0.20 0.20	03/21/24 12:56 KMA 03/21/24 12:56 KMA	4.00 4.00		109	80 - 120	1.00	10	M174809
Low Cal Check Blank LCS LCS Dup Matrix Spike	4.41	mg/L						<0.20			1.00	10	M174809 M174809
Blank LCS LCS Dup	4.41 4.36	mg/L mg/L		0.13	0.20	03/21/24 12:56 KMA	4.00	<0.20 <0.20	109	80 - 120	1.00 0.115	10 17.5	
Blank LCS LCS Dup Matrix Spike Matrix Spike Dup	4.41 4.36 4.34 4.34	mg/L mg/L mg/L mg/L		0.13 0.13	0.20 0.20	03/21/24 12:56 KMA 03/21/24 12:56 KMA	4.00 4.00		109 108	80 - 120 70 - 130			M174809
Blank LCS LCS Dup Matrix Spike	4.41 4.36 4.34 4.34	mg/L mg/L mg/L mg/L		0.13 0.13	0.20 0.20	03/21/24 12:56 KMA 03/21/24 12:56 KMA	4.00 4.00		109 108	80 - 120 70 - 130			M174809 M174809
Blank LCS LCS Dup Matrix Spike Matrix Spike Dup Total Suspended S	4.41 4.36 4.34 4.34 Solids - SM2	mg/L mg/L mg/L mg/L 540 D 2015	RPD-04	0.13 0.13 0.13	0.20 0.20	03/21/24 12:56 KMA 03/21/24 12:56 KMA 03/21/24 12:56 KMA	4.00 4.00		109 108	80 - 120 70 - 130			M174809 M174809 Aus

Metals (Total) - Quality Control													
Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch	

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4/10/24

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Metals (Total) - Quality Control														
	Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch	
Phosphorus-Tot	al - EPA 200.7	R4.4												Austin
Blank	<0.050	mg/L		0.041	0.050	03/20/24 15:43 KT							M174708	
LCS	2.45	mg/L		0.041	0.050	03/20/24 15:45 KT	2.50		97.9	84.5 - 115.4			M174708	
LCS Dup	2.47	mg/L		0.041	0.050	03/20/24 15:48 KT	2.50		98.7	84.5 - 115.4	0.813	20	M174708	
Duplicate	1.70	mg/L		0.041	0.050	03/20/24 15:50 KT		1.72			0.585	20	M174708	
Matrix Spike	4.64	mg/L		0.041	0.050	03/20/24 15:53 KT	2.50	1.72	117	69.5 - 130.4			M174708	

				Micro	obiologi	cal Analyses - Quality	Control				Log10 C	omparison		
	Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	Range	Control Limit	Batch	
E. Coli - SM9223 B	2004													Austin
Blank	<1.0	MPN/100 mL		1.0	1.0	03/13/24 15:08 ACG							M174635	
Dup Log10 Range		MPN/100 mL		1.0	1.0	03/13/24 15:08 ACG					0.000		M174635	
Duplicate	<1.0	MPN/100 mL		1.0	1.0	03/13/24 15:08 ACG		<1.0				0.5	M174635	

		External Dilution								
Sample	Method	Prepared	Lab	Bottle	Initial	Units	Final	Units	Factor	Batch
H008587-01										
Ammonia as N	SM4500-NH3 G 2011	3/19/24 11:45 KMA	Bryan	А	10.0	mL	10.0	mL	1	M174863
Carbonaceous BOD (5 day)	SM5210 B 2016	3/14/24 7:00 MSA	Austin	В	300	mL	300	mL	1	M174646
Chloride	SM4500-CI- B 2011	3/18/24 9:00 MSA	Austin	С	25.0	mL	100	mL	1	M174781
E. Coli	SM9223 B 2004	3/13/24 15:00 ACG	Austin	D	100	N/A	100	N/A	1	M174635
Nitrate/Nitrite as N	SM4500-NO3-F 2011	3/27/24 10:01 KMA	Bryan	А	1.00	mL	25.0	mL	1	M175207
Nitrite as N	SM4500 NO2- B 2011	3/14/24 13:30 BEB	Austin	F	25.0	mL	25.0	mL	1	M174699
Phosphorus-Total	EPA 200.7 R4.4	3/14/24 14:42 KT	Austin	J	50.0	mL	25.0	mL	1	M174708
Specific Conductance (adjusted to 28	5.0°C) SM2510 B 2011	3/18/24 8:15 MSA	Austin	С	25.0	mL	25.0	mL	1	M174776
Sulfate as SO4(2-)	ASTM D0516-16	3/19/24 8:54 KFB	Austin	С	25.0	mL	100	mL	1	M174854
Total Dissolved Solids	SM2540 C 2015	3/18/24 10:43 SR	Austin	С	50.0	mL	100	mL	1	M174805
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	3/18/24 11:05 CTG	Bryan	А	25.0	mL	25.0	mL	1	M174809
Total Suspended Solids	SM2540 D 2015	3/14/24 9:54 KHA	Austin	D	1000	mL	1000	mL	1	M174665

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AUSTIN FACILITY 3512 Montopolis Dr. Suite A Austin, TX 78744 Phone: (512) 301-9559 Fax: (512) 301-9552

Analytical Report

HURST CREEK MUD

Report Printed:

4/10/24 14:36

H008587

Chain-of-Custody Summary

The following record summarizes custody for work orders sampled by Aqua-Tech Laboratories, Inc. personnel on route.

Original signatures are kept on file by Aqua-Tech Laboratories, Inc. and are available upon request.

WORK ORDER H008587

Cooler ID 901	Temperature [°] C 1.6	Condition Good? Yes	On Ice? Yes	Preservation Correct? Yes	Custody Maintained by ATL? Yes	See comments below or co analytical results explaining	•
H008587-01	Grab	Sampling Begun: 3/	13/24 12:2	5	Sampling Ended: 3/13/24 12:25		
Container & Des	scription	pH Checks / Comment	s (Container & Description	pH Checks / Comments	Container & Description	pH Checks / Comments
A AMM NO3	3 TKN 0.25LP H2SO4	pH <2	E	3 CBOD 1LP		C CI Cond SO4 TDS 1LP	
D Ecoli 0.1L	StP Na2S2O3		E	Mn Corr 0.25 LP		F NO2 0.25LP	pH <2
G OG - 1LG	Amber HCI	pH <2	ł	HOG - 1LG Amber HCI	pH <2	I OG pH Chk - 1LP HCI	pH <2
J P 0.25LP I	H2SO4	pH <2					
Samp	led & Submitted to Lab by:	Bryce Jones (Route Dr	iver)		Received: 3/13/24 13:45 By Bryce Jor	nes (Austin)	

email information for report date: 3/22/24 10:14

H009260

HURST CREEK MUD

Attn: BOBBY GOMEZ bgomez@ev1.net

102 TROPHY DRIVE AUSTIN, TX 78738

Please contact us for your sampling needs or if you have any questions. Some convenient contacts are listed below. You can also access your results and reports through our ClientConnect ™ portal on our website (www.aqua-techlabs.com).

For sampling questions:

samplingbryan@aqua-techlabs.com (Bryan area) samplingaustin@aqua-techlabs.com (Austin area)

reporting@aqua-techlabs.com (report questions)

Aqua-Tech values you as a customer and encourages you to speak with our staff at 979-778-3707 or the above emails if you have questions.

Thank you for your business, June M. Brien Executive Technical Director **BRYAN FACILITY** 635 Phil Gramm Boulevard Bryan, TX 77807 Phone: (979) 778-3707 Fax: (979) 778-3193



AUSTIN FACILITY 3512 Montopolis Dr. Suite A Austin, TX 78744 Phone: (512) 301-9559 Fax: (512) 301-9552

The analyses summarized in this report were performed by Aqua-Tech Laboratories, Inc. unless otherwise noted. Aqua-Tech Laboratories, Inc. holds accreditation from the State of Texas in accordance with TNI and/or through the TCEQ Drinking Water Commercial Laboratory Approval Program.

The following abbreviations indicate certification status:

- NEL TNI accredited parameter.
- ANR Accreditation not offered by the State of Texas.
- DWP Approval through the TCEQ Drinking Water Commercial Laboratory Approval Program.
- INF Aqua-Tech Laboratories, Inc. is not accredited for this parameter. It is reported on an informational basis only.

Subcontracted data summarized in this report is indicated by "Sub" in the Lab column.

General Definitions:

- NR Not Reported.
- RPD Relative Percent Difference.
- % R Percent Recovery.
- dry Results with the "dry" unit designation are reported on a "dry weight" basis.
- SQL The Sample Quantitation Limit is the value below which the parameter cannot reliably be detected. The SQL includes all sample preparations, dilutions and / or concentrations.
- Adj MDL The Adjusted Method Detection Limit is the MDL value adjusted for any sample dilutions or concentrations .
 - MDL The Method Detection Limit is the lowest theoretical value that is statistically different from zero for a specific method, taking into account all preparation steps and instrument settings.

All samples are reported on an "as received" basis unless the designation "dry" is added to the reported unit.

Copies of Aqua-Tech Laboratories, Inc. procedures and individual sampling plans are available upon request. Note that samples are collected by Aqua-Tech Laboratories, Inc. personnel unless otherwise noted in the "Sample Collected" field of this report as "Client" or "CLT".

Samples included in this report were received in acceptable condition according to Aqua-Tech Laboratories, Inc. procedures and 40 CFR, Chapter I, Subchapter D, Part 136.3, TABLE II. - *Required containers, preservation techniques, and holding times*, unless otherwise noted in this report.

Record Retention:

All reports, raw data, and associated quality control data are kept on file for 10 years before being destroyed. Any client that would like copies of records must contact Aqua-Tech Laboratories, Inc. no later than six months prior to the scheduled disposal. An administrative fee for retrieval and distribution will apply.

This report was approved by:

June M. Brien June M. Brien, Technical Director

The results in this report apply only to the samples analyzed. This analytical report must be reproduced in its entirety unless written permission is granted by Aqua-Tech Laboratories, Inc.

corp@aqua-techlabs.com

www.aqua-techlabs.com

Certificate: T104704371-23-27



TCEQ Lab ID T104704371

BRYAN FACILITY 635 Phil Gramm Boulevard			AL 3512 Monto	JSTIN FA						Analytical	Report
Bryan, TX 77807 Phone: (979) 778-3707	QUA-T	ECH	A	Austin, TX : (512) 30	78744					HURST CRE	EK MUD
	BORATO	RIES		(512) 30				Report Printe	ed:	3/22/24	10:14
						•					H009260
Hurst Creek MUD WWTP Short Permit	Collected: 03/14/24 1	13:39 by Katherine Bor	rta		Туре		Matrix		C-O-C #		
	Received: 03/14/24 1	15:05 by Katherine Bor	rta		Grab		Non Po	otable	N/A		
Lab ID# H009260-01 Result	Units Not	es	MDL /	Adj MDL	SQL	Lab	Analyzed	Method		Batch	
General Chemistry											
Oil & Grease (HEM) <4.9	mg/L O8	G-1	2.1	2.1	4.9	Bryan	03/21/24 09:54 HDH	EPA 1664B		M174964	NEL

Explanation of Notes

O&G-1 ICV and/or LCS failed. Due to sample volume or hold time constraints the sample could not be re-analyzed.

				C	General C	Chemistry - Quality Co	ontrol							
	Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch	
Oil & Grease (H	EM) - EPA 166	4B												Bryan
Blank	<4.9	mg/L		2.1	4.9	03/21/24 09:54 HDH							M174964	
LCS	30.1	mg/L	O&G-1	2.1	4.9	03/21/24 09:54 HDH	39.4		76.4	78 - 114			M174964	
Matrix Spike	30.9	mg/L		2.1	4.9	03/21/24 09:54 HDH	39.6	<4.9	78.2	78 - 114			M174964	
Reference	36.1	mg/L		2.1	4.9	03/21/24 09:54 HDH	39.5		91.5	84 - 99			M174964	

		Sample Prepar	ation Sum	mary				External Dilution	
Sample	Method	Prepared	Lab	Bottle Initial	Units	Final	Units	Factor	Batch
H009260-01									
Oil & Grease (HEM)	EPA 1664B	3/21/24 9:54 HDH	Bryan	A 1020	mL	1000	mL	1	M174964

BRYAN FACILITY 635 Phil Gramm Boulevard Bryan, TX 77807 Phone: (979) 778-3707 Fax: (979) 778-3193



AUSTIN FACILITY 3512 Montopolis Dr. Suite A Austin, TX 78744 Phone: (512) 301-9559 Fax: (512) 301-9552

Analytical Report

HURST CREEK MUD

3/22/24

Report Printed:

10:14 H009260

Chain-of-Custody Summary

The following record summarizes custody for work orders sampled by Aqua-Tech Laboratories, Inc. personnel on route.

Original signatures are kept on file by Aqua-Tech Laboratories, Inc. and are available upon request.

WORK ORDER H009260

Cooler ID Y011	Temperature [°] C 1.3	Condition Good? Yes	On Ice? Yes	Preservation Correct? Yes	Custody Maintained by ATL? Yes	See comments below or co analytical results explaining	•
H009260-01	Grab	Sampling Begun:	3/14/24 13:39		Sampling Ended: 3/14/24 13:39		
Container & Descri	ption	pH Checks / Comm	ients Co	ontainer & Description	pH Checks / Comments	Container & Description	pH Checks / Comments
A OG - 1LG Am	nber HCI		В	OG - 1LG Amber HCI		C OG pH Chk - 1LP HCl	pH<2

Sampled & Submitted to Lab by: Katherine Borta (Route Driver)

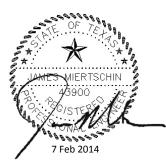
Received: 3/14/24 15:05 By Katherine Borta (Austin)

Pond Liner Certification

Pond Liner Certification

It is my opinion that the synthetic liner used for the effluent storage pond at Hurst Creek Municipal Utility District, readily meets all requirements and applicable rules including Title 30 of Texas Administrative Code, Chapters 217.203 - Design Criteria for Natural Treatment Facilities, 309.13(d) - Unsuitable Site Characteristics, and 210.23 - Storage Requirements for Reclaimed Water .

I hereby certify that the liner used in construction of the effluent storage pond is constructed in a manner that is protective of human health, groundwater and the environment.



Cropping Plan

CROPPING PLAN HURST CREEK MUNICIPAL UTILITY DISTRICT

COVER CROP

The cover crop for the existing irrigation system is bermudagrass. Irrigation with treated effluent takes place on the Hills Country Club golf course, the Academy of Golf, and the adjacent roadway median. The total existing irrigation area is 181 acres.

NUTRIENTS

The nitrogen application rate for bermuda is recommended at 100 lbs N/acre per cutting, according to the Texas Agricultural Extension Service. The proposed design utilized a target nitrogen application rate of 70 lbs N/acre.

The nitrogen requirements for the cover crop will be provided by the nitrogen content of the effluent and by fertilizer addition, similar to that practiced on other golf courses.

WATERING

Treated effluent will be applied to the golf course. The effluent application rate for the cover crop is 4.5 feet/year or less. Additional irrigation water will be secured from Lake Travis as needed.

HARVESTING

The golf courses and the irrigation distribution system are meticulously maintained by the owner, the Club Corporation of America.

SOILS

The general soil groups on the irrigation tract are Brackett-Rock Outcroppings, Tarrant Soils, and Volente Silty Clay Loam. These are typically moderately impermeable soils that have textural classifications as Lean and Fat Clay. Soil textural classifications on the irrigation sites are shown in Figure 1 and are described in more detail in a separate soils report. It should also be noted that substantial quantities of sandy loam were imported and placed on the golf course during construction.

SALT TOLERANCES

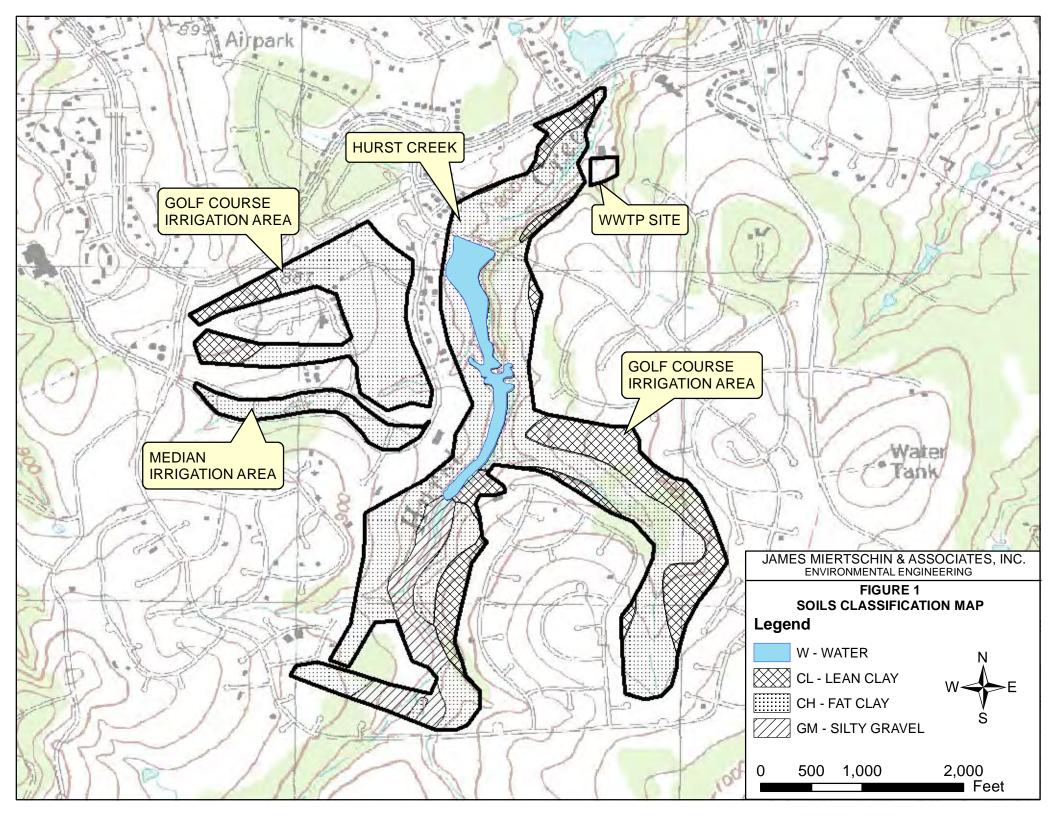
Bermudagrass is relatively tolerant of high salt loadings. The salt concentration in the root zone is controlled by leaching.

APPLICATION METHOD

The golf course irrigation system consists of fixed sprinkler heads and buried lines, with a computerized control center. The irrigation efficiency is estimated at 85%.

Irrigation with effluent has been practiced at the golf course since 1982 without problems.

James Miertschin & Associates, Inc.



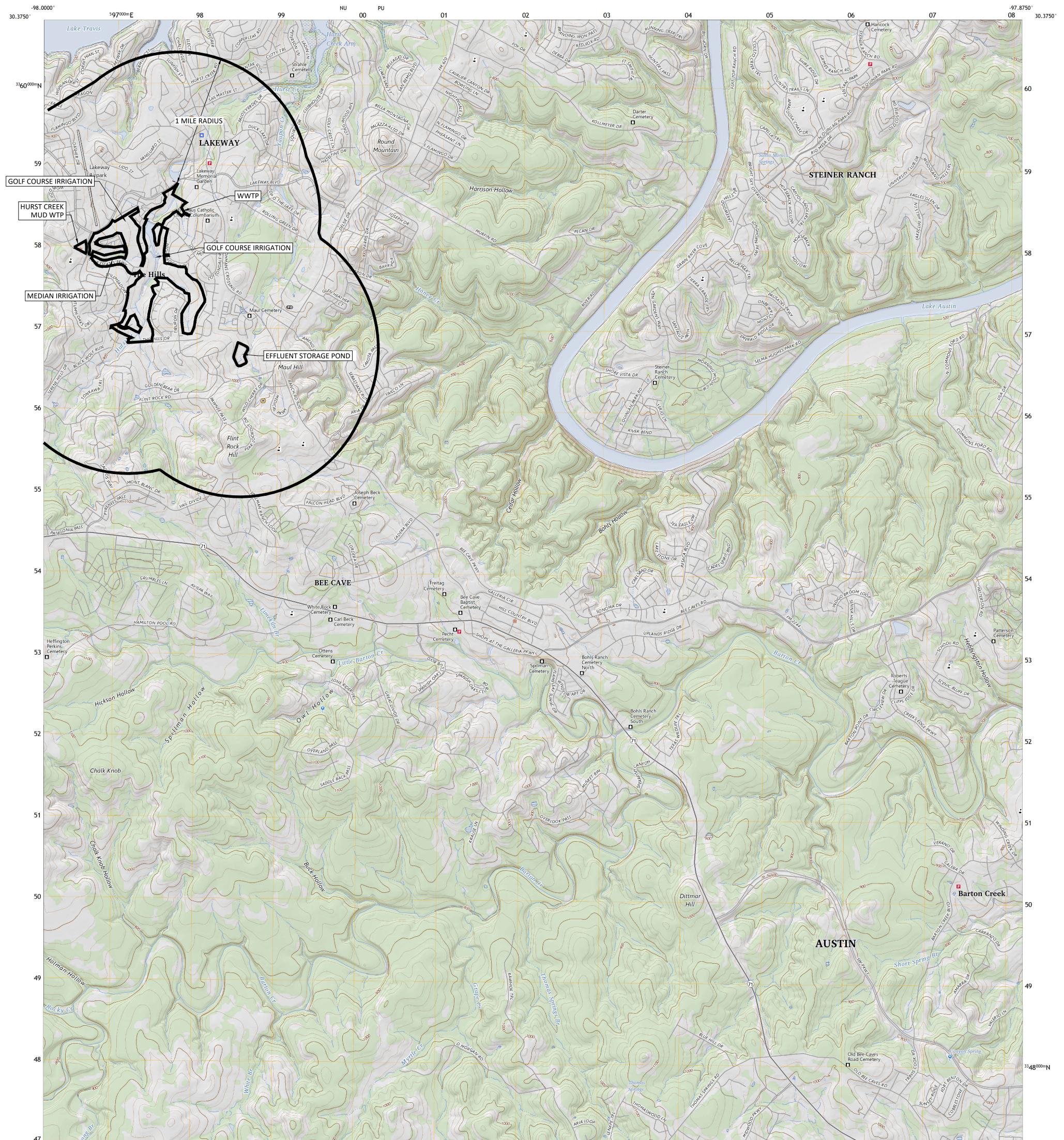
USGS Map

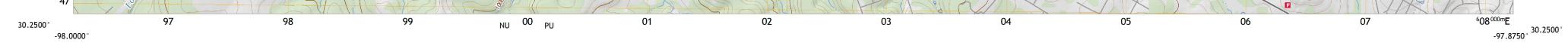


U.S. DEPARTMENT OF THE INTERIOR U.S. GEOLOGICAL SURVEY



BEE CAVE QUADRANGLE TEXAS - TRAVIS COUNTY 7.5-MINUTE TOPO



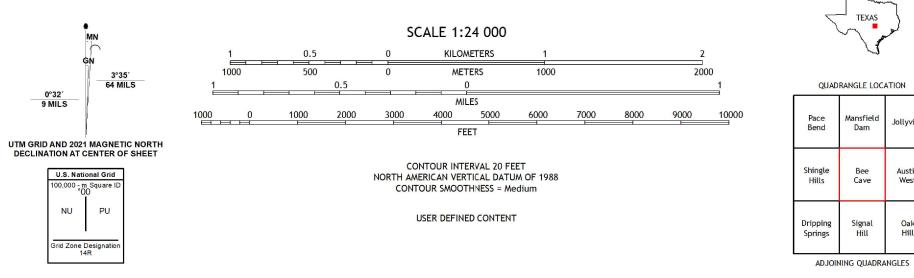


Produced by the United States Geological Survey North American Datum of 1983 (NAD83) World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid:Universal Transverse Mercator, Zone 14R

Data is provided by The National Map (TNM), is the best available at the time of map generation, and includes data content from supporting themes of Elevation, Hydrography, Geographic Names, Boundaries, Transportation, Structures, Land Cover, and Orthoimagery. Refer to associated Federal Geographic Data Committee (FGDC) Metadata for additional source data information.

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. Temporal changes may have occurred since these data were collected and some data may no longer represent actual surface conditions.

Learn About The National Map: https://nationalmap.gov





Jollyville

Austin West

Oak Hill



BEE CAVE, TX

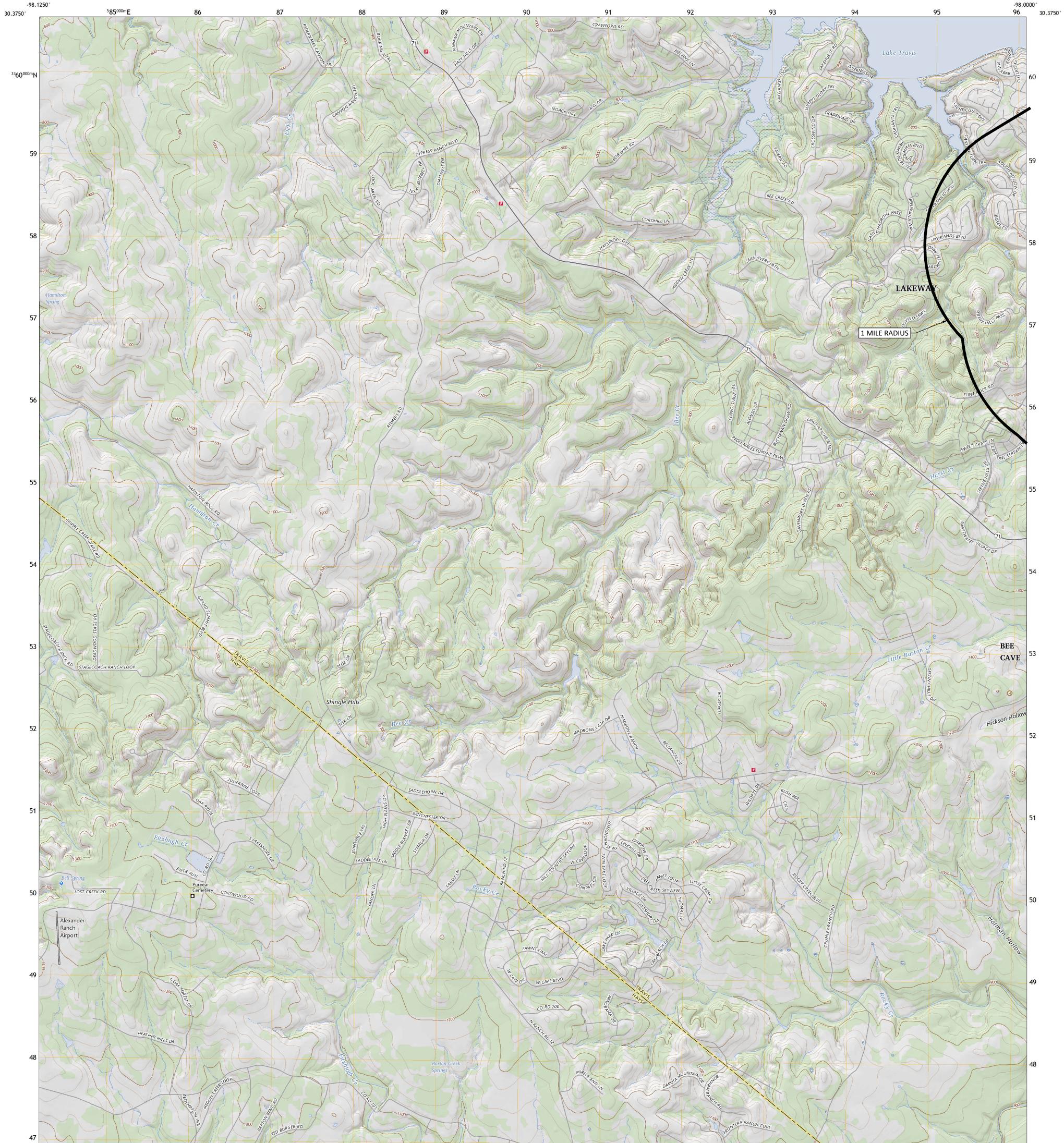
2024

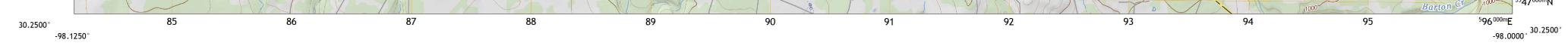


U.S. DEPARTMENT OF THE INTERIOR U.S. GEOLOGICAL SURVEY



SHINGLE HILLS QUADRANGLE TEXAS 7.5-MINUTE TOPO



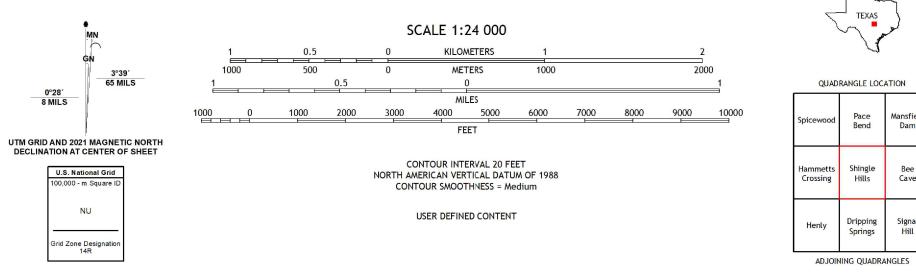


Produced by the United States Geological Survey North American Datum of 1983 (NAD83) World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid:Universal Transverse Mercator, Zone 14R

Data is provided by The National Map (TNM), is the best available at the time of map generation, and includes data content from supporting themes of Elevation, Hydrography, Geographic Names, Boundaries, Transportation, Structures, Land Cover, and Orthoimagery. Refer to associated Federal Geographic Data Committee (FGDC) Metadata for additional source data information.

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SHINGLE HILLS, TX

Mansfield Dam

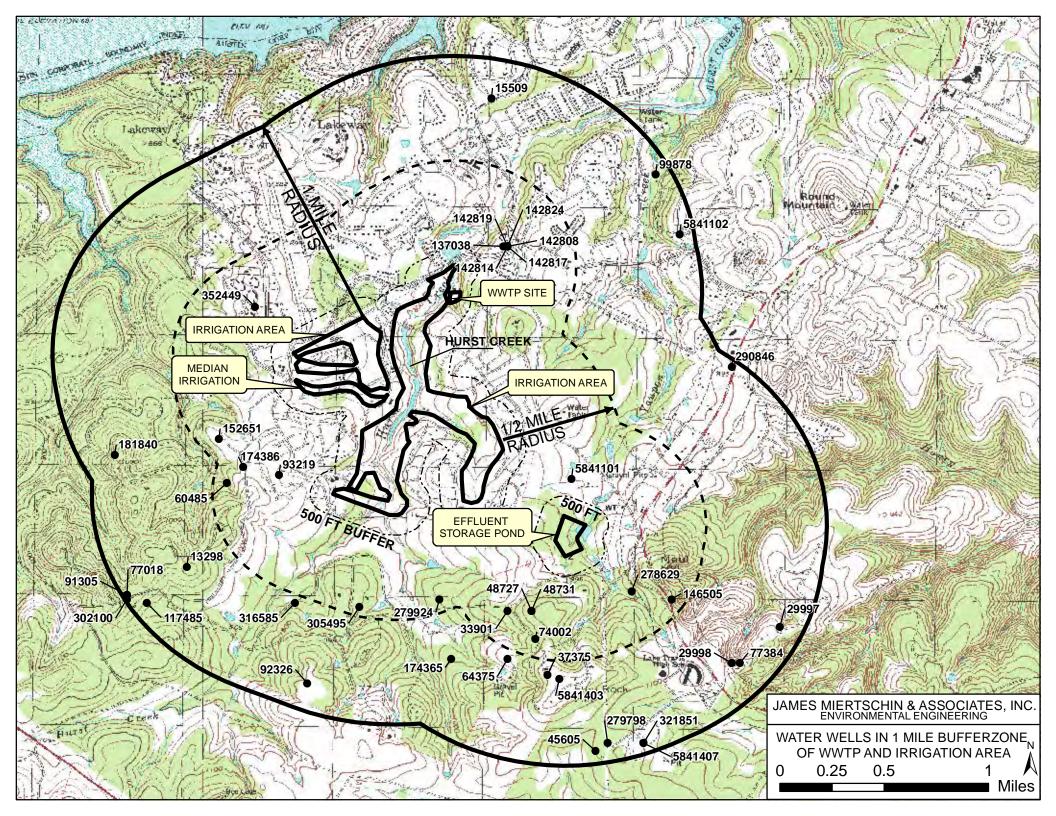
Bee Cave

Signal Hill



ATTACHMENT 9

Water Well Map & Information



HURST CREEK MUNICIPAL UTILITY DISTRICT

Well ID	Well IDWell UseProducing?Open, cased, capped, or		Proposed Best Management	
			plugged?	Practice
48731	Domestic	40 GPM	N/A	Irrigation Controls
60485	Domestic	40 GPM	N/A	Irrigation Controls
64375	Domestic	40 GPM	N/A	Irrigation Controls
74002	Domestic	20 GPM	N/A	Irrigation Controls
77018	Domestic	35 GPM	N/A	Irrigation Controls
77384	Domestic	25 GPM	N/A	Irrigation Controls
91305	Domestic	35 GPM	N/A	Irrigation Controls
92326	Domestic	30 GPM	N/A	Irrigation Controls
93219	Domestic	25 GPM	N/A	Irrigation Controls
99878	Domestic	20 GPM	N/A	Irrigation Controls
117485	Domestic	50 GPM	N/A	Irrigation Controls
142814	Monitor	N/A	N/A	Irrigation Controls
142817	Monitor	N/A	N/A	Irrigation Controls
142819	Monitor	N/A	N/A	Irrigation Controls
142824	Monitor	N/A	N/A	Irrigation Controls
146505	Irrigation	30-35 GPM	N/A	Irrigation Controls
152651	Domestic	30 GPM	N/A	Irrigation Controls
174365	Domestic	15-20 GPM	N/A	Irrigation Controls
174386	Domestic	N/A	N/A	Irrigation Controls
181840	Domestic	30 GPM	N/A	Irrigation Controls
278629	Irrigation	50-60 GPM	N/A	Irrigation Controls
279798	Domestic	27 GPM	N/A	Irrigation Controls
290846	Monitor	N/A	0-2 FT Conc., Plugged	Irrigation Controls
5841101	Domestic	N/A	Steel Casing, Open	Irrigation Controls
5841102	Irrigation	N/A	Steel Casing, Open	Irrigation Controls
5841403	Domestic	N/A	Steel Casing, Open	Irrigation Controls
5841407	Irrigation	N/A	PVC Casing, Open	Irrigation Controls

WATER WELLS IN 1 MILE RADIUS OF IRRIGATION AREA

Source: TNRCC, TWDB Records

Owner:	Don Mitchem		Owner Well #:	No Data	
Address:	3519 south Pawnee Pass Lakeway , TX 78738		Grid #:	58-41-4	
Well Location:	3519 south Pawnee Pass Lakeway , TX 78738		Latitude:	30° 19' 57" N	
Well County:	Travis		Longitude:	097° 58' 38" W	
Elevation:	1107 ft.		GPS Brand Used:	GARMIN	
Type of Work:	Replacement Well		Proposed Use:	Domestic	
Drilling Date:		Started: 9/17/2004 Completed: 9/19/2004			
Diameter of Hole:		Diameter: 8 in From Surface To 40 ft Diameter: 7 in From 40 ft To 420 ft Diameter: 6.75 in From 420 ft To 860 ft			
Drilling Method:		Air Rotary			
Borehole Comp	letion:	Straight Wall			
Annular Seal Da	ata:	1st Interval: From 40 ft to 2nd Interval: No Data 3rd Interval: No Data Method Used: gravity flo Cemented By: adc Distance to Septic Field of Distance to Property Line Method of Verification: es Approved by Variance: n/	ow or other Concentrated (c: 200+ ft st.		
Surface Completion:		Surface Sleeve Installe	d		
Water Level:		Static level: 560 ft. below Artesian flow: No Data	v land surface on 9/2	3/2004	
Packers:		neoprene/burlap 40 shale trap 740			
Plugging Info:		Casing or Cement/Bentonite left in well: No Data			
Type Of Pump:		Submersible Depth to pump bowl: 700 ft			
Well Tests:		Jetted \ Estimated Yield: 40 GPM with (No I	Data) ft drawdown af	ter (No Data) hours	
Water Quality:		Type of Water: trinitty Depth of Strata: 780-860 Chemical Analysis Made: Did the driller knowingly p constituents: No	No	nich contained undesirable	

Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	associated drilling co po box 1060 manchaca , TX 78652
Driller License Number:	4064
Licensed Well Driller Signature:	4064 wi james benoit
Registered Driller Apprentice Signature:	No Data
Apprentice Registration Number:	No Data
Comments:	5s20-39ds b08110039-p10241us6 0422 / 794545506

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #48731) on your written request.

Texas Department of Licensing & Regulation P.O. Box 12157 Austin, TX 78711 (512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

CASING, BLANK PIPE & WELL SCREEN DATA

Setting From/To

From (ft) To (ft) Description 0-18 white limestone 18-410 bluish lime and clay mix 410-530 tan limestone 530-580 grey limestone 580-600 grey sandstone 600-630 grey clay/shale 630-680 grey white sandstone/limestone 680-820 red sandstone 820-860 multi-color limestones Dia. New/Used Type 4.5" new sdr17 -3 to 860 slotted 780-840

Owner:	Dennis Cook		Owner Well #:	1
Address:	5604 Southwest Parkwa Austin , TX 78735	у	Grid #:	58-41-1
Well Location:	3413 Serene Hill Ct. Austin , TX 78738		Latitude:	30° 20' 29" N
Well County:	Travis		Longitude:	097° 59' 54" W
Elevation:	1022 ft.		GPS Brand Used:	germin
Type of Work:	New Well		Proposed Use:	Domestic
Drilling Date:		Started: 1/14/2005 Completed: 1/16/2005		
Diameter of Hol	e:	Diameter: 8 in From Sur Diameter: 7 in From 20 f		
Drilling Method:	:	Air Rotary		
Borehole Comp	letion:	Straight Wall		
Annular Seal Data:		1st Interval: From 0 ft to 20 ft with 5 (#sacks and material) 2nd Interval: No Data 3rd Interval: No Data Method Used: gravity Cemented By: ADC Distance to Septic Field or other Concentrated Contamination: 100 ft Distance to Property Line: 150 ft Method of Verification: measured Approved by Variance: No Data		
Surface Comple	etion:	Surface Sleeve Installe	d	
Water Level:		Static level: 377 ft. belov Artesian flow: No Data	w land surface on 1/1	8/2005
Packers:		neophrene 20'		
		neophrene 780'		
Plugging Info:		Casing or Cement/Bentonite left in well: No Data		
Type Of Pump:		Submersible Depth to pump bowl: 740 ft		
Well Tests:		Estimated Yield: 40 GPM with (No	Data) ft drawdown af	ter (No Data) hours
Water Quality:		Type of Water: trinity Depth of Strata: 780-860 Chemical Analysis Made Did the driller knowingly constituents: No	: No	nich contained undesirab

Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	A Po Box 1060 Manchaca , TX 78652
Driller License Number:	4064
Licensed Well Driller Signature:	James Benoit
Registered Driller Apprentice Signature:	No Data
Apprentice Registration Number:	No Data
Comments:	No Data

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #60485) on your written request.

Texas Department of Licensing & Regulation P.O. Box 12157 Austin, TX 78711 (512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description 0-1 black topsoil 1-20 tan caliche 20-320 gray limestone 320-420 sandstone 420-520 tan limestone 520-560 red sandstone/ clay 560-640 sandstone 640-780 gray limestone 780-860 broken red sandstone CASING, BLANK PIPE & WELL SCREEN DATA

Dia. New/Used Type Setting From/To 4.5 new plastic -2 860 SDR 17

perf. from 780' to 860'

Owner:	Rick Skinner c/o Action	Water Wells	Owner Well #:	1	
Address:	100 Spanish Oak Trail Spicewood , TX 78669		Grid #:	58-41-4	
Well Location:	Pawnee Pass TX		Latitude:	30° 19' 45" N	
Well County:	Travis		Longitude:	097° 58' 44" W	
Elevation:	No Data		GPS Brand Used:	eTrax	
Type of Work:	New Well		Proposed Use:	Domestic	
Drilling Date:		Started: 3/25/2005 Completed: 3/25/20	05		
Diameter of Hole:		Diameter: 8 in Fron Diameter: 6 in Fron			
Drilling Method:		Air Rotary			
Borehole Comp	letion:	Straight Wall			
Annular Seal Data:		1st Interval: From 0 ft to 20 ft with 4 Portland (#sacks and material) 2nd Interval: No Data 3rd Interval: No Data Method Used: Slurry Cemented By: APEX Drilling Inc. Distance to Septic Field or other Concentrated Contamination: 100+ ft Distance to Property Line: >50 ft Method of Verification: landowner Approved by Variance: n/a			
Surface Comple	etion:	Surface Sleeve Ins	stalled		
Water Level:		Static level: No Dat a Artesian flow: No D a			
Packers:		Burlap 685', 680', 2	0'		
Plugging Info:		Casing or Cement/E	Bentonite left in well: No Dat	а	
Type Of Pump:		No Data			
Well Tests:		Jetted \ Estimated Yield: 40 GPM with	(No Data) ft drawdown af	ter (No Data) hours	
Water Quality:		Type of Water: Low Depth of Strata: 685 Chemical Analysis M Did the driller knowi constituents: No	5-875 ft.	nich contained undesirable	
Certification Data:		under the driller's di herein are true and	hat the driller drilled this we rect supervision) and that ea correct. The driller understo rill result in the log(s) being i	ach and all of the statement bod that failure to complete	

Company Information:	APEX Drilling Inc. PO Box 867 Marble Falls , TX 78654
Driller License Number:	54516
Licensed Well Driller Signature:	Michael G Becker, P.G.
Registered Driller Apprentice Signature:	No Data
Apprentice Registration Number:	No Data
Comments:	Amended 8/10/05 ref#1899

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #64375) on your written request.

Texas Department of Licensing & Regulation P.O. Box 12157 Austin, TX 78711 (512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description 000-012 Caliche 012-120 Blue Limestone 120-180 Tan Limestone 180-220 Gray Limestone with Clay 220-390 Gray & Tan Limestone 390-480 Tan Limestone 480-530 Gray Limestone 530-610 Tan Limestone 610-630 Gray Limestone with Clay 630-665 Clay - Hammid 665-685 Gray Sandstone w/ White Limestone 685-800 Red Sandstone 800-855 Gravel 855-865 White Limestone 865-875 Gravel 875-880 White Limestone

CASING, BLANK PIPE & WELL SCREEN DATA

Dia. New/Used Type Setting From/To 4.5" New PVC +2 to 800 SDR17 4.5" New Screen 800 to 880 Well Report: Tracking #:74002

Owner:	Summit Buiders		Owner Well #:	1	
Address:	Po Box 340277 Austin , TX 78734		Grid #:	58-41-4	
Well Location:	3700 Wild Cherry Austin , TX 78738		Latitude:	30° 19' 50" N	
Well County:	Travis		Longitude:	097° 58' 37" W	
Elevation:	1113 ft.		GPS Brand Used:	germin	
Type of Work:	New Well		Proposed Use:	Domestic	
Drilling Date:		Started: 1/3/2006 Completed: 1/5/2006			
Diameter of Hol	le:		Diameter: 8.5 in From Surface To 120 ft Diameter: 7 in From 120 ft To 950 ft		
Drilling Method:		Air Rotary			
Borehole Comp	letion:	Straight Wall			
Annular Seal Data:		1st Interval: From 0 ft to 120 ft with 28 (#sacks and material) 2nd Interval: No Data 3rd Interval: No Data Method Used: tremie Cemented By: ADC Distance to Septic Field or other Concentrated Contamination: 150 ft Distance to Property Line: 40 ft Method of Verification: measured Approved by Variance: No Data			
Surface Comple	etion:	Surface Sleeve Install	ed		
Water Level:		Static level: 587 ft. belc Artesian flow: No Data	w land surface on 1/9	/2006	
Packers:		neophrene 120 neophrene 800			
Plugging Info:		Casing or Cement/Bente	onite left in well: No Dat	а	
Type Of Pump:		Submersible Depth to pump bowl: 760 ft			
Well Tests:		Estimated Yield: 20 GPM with (No	o Data) ft drawdown af	ter (No Data) hours	
Water Quality:		Type of Water: Trinity Depth of Strata: 800'-93 Chemical Analysis Made Did the driller knowingly	e: No	nich contained undesirat	

Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	Associated Drilling Co. P.O. Box 1060 Manchaca , TX 78652
Driller License Number:	4064
Licensed Well Driller Signature:	James Benoit / 4064wi
Registered Driller Apprentice Signature:	No Data
Apprentice Registration Number:	No Data
Comments:	No Data

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #74002) on your written request.

Texas Department of Licensing & Regulation P.O. Box 12157 Austin, TX 78711 (512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description 0-1 black topsoil 1-20 tan caliche 20-460 gray limestone 460-500 tan limestone (broken) 500-740 gray limestone 740-800 shale 800-930 broken red sandstone 930-950 hard tan limestone CASING, BLANK PIPE & WELL SCREEN DATA

Dia. New/Used Type Setting From/To 4.5 new plastic -2 950 SDR 17

mill slotted 800'- 900'

Well Report: Tracking #:77018

Owner:	Gary Simon		Owner Well #:	1
Address:	17003 Flint Rock Rd Austin , TX 78738		Grid #:	57-48-3
Well Location:	17204 Flint Rock Rd Austin , TX 78738		Latitude:	30° 20' 01" N
Well County:	Travis		Longitude:	098° 00' 19" W
Elevation:	No Data		GPS Brand Used:	eTrax
Type of Work:	New Well		Proposed Use:	Domestic
Drilling Date:		Started: 9/9/2005 Completed: 9/10/2005	;	
Diameter of Hol	e:	Diameter: 8 in From Diameter: 6 in From 2		
Drilling Method:		Air Rotary		
Borehole Comp	letion:	Straight Wall		
Annular Seal Data: Surface Completion:		1st Interval: From 0 ft to 20 ft with 4 Portland (#sacks and material) 2nd Interval: No Data 3rd Interval: No Data Method Used: Slurry Cemented By: APEX Drilling Distance to Septic Field or other Concentrated Contamination: 100+ ft Distance to Property Line: 50+ ft Method of Verification: landowner Approved by Variance: No Data		
		Surface Sleeve Installed		
Water Level:		Static level: No Data Artesian flow: No Dat	a	
Packers:		Burlap 690', 680', 20		
Plugging Info:		Casing or Cement/Bentonite left in well: No Data		
Type Of Pump:		No Data		
Well Tests:		Jetted \ Estimated Yield: 35 GPM with (No Data) ft drawdown after (No Data) hours		
Water Quality:		Type of Water: Trintiy Depth of Strata: 675 t Chemical Analysis Ma Did the driller knowing constituents: No	o 875 ft. ide: No	hich contained undesirable
Certification Data:		under the driller's dire herein are true and co	prrect. The driller underst	II (or the well was drilled ach and all of the statement bod that failure to complete returned for completion and

Company Information:	APEX Drilling, Inc. PO Box 867 Marble Falls , TX 78654
Driller License Number:	54516
Licensed Well Driller Signature:	Michael G. Becker, P.G.
Registered Driller Apprentice Signature:	No Data
Apprentice Registration Number:	No Data
Comments:	Amended 2/23/06 Ref.#3007

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Please include the report's Tracking number (Tracking #77018) on your written request.

Texas Department of Licensing & Regulation P.O. Box 12157 Austin, TX 78711 (512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

CASING, BLANK PIPE & WELL SCREEN DATA

Dia. New/Used Type Setting From/To 4.5" New PVC +2 to 875 SDR17

From (ft) To (ft) Description 000-032 Tan LS 032-320 Tan & Gry LS 320-440 Tan LS 440-620 Tan & Gry LS 620-675 Gry LS w/ Clay 675-700 Red Clay w/ Sand (H2O) 700-710 Gravel 710-755 Red Sand 755-785 Tan LS 785-840 Red SS 840-860 Wht LS 860-875 Gravel

Owner:	TOLL BROTHERS		Owner Well #:	No Data		
Address:	8716 N. Mopac, Suite 100 Austin , TX 78759)	Grid #:	58-41-4		
Well Location:	101 1/2 Aria Drive Austin , TX 78738		Latitude:	30° 19' 44" N		
Well County:	Travis		Longitude:	097° 57' 46" W		
Elevation:	No Data		GPS Brand Used:	No Data		
Type of Work:	New Well		Proposed Use:	Domestic		
Drilling Date:		Started: 12/30/2005 Completed: 12/30/2005				
Diameter of Hol	e:	Diameter: 9 in From 5 Diameter: 6 in From 5				
Drilling Method:		Air Rotary				
Borehole Comp	letion:	Straight Wall				
Annular Seal Data:		1st Interval: From 0 ft to 100 ft with 27 (#sacks and material) 2nd Interval: No Data 3rd Interval: No Data Method Used: Pressure trimmy Cemented By: Central Texas Drilling Distance to Septic Field or other Concentrated Contamination: No Data Distance to Property Line: No Data Method of Verification: Owner Approved by Variance: No Data				
Surface Comple	etion:	Surface Sleeve Inst	alled			
Water Level:		Static level: No Data Artesian flow: No Dat	a			
Packers:		4 PVC & Burlap at 1	00', 660', 700', 710'			
Plugging Info:		Casing or Cement/Be	ntonite left in well: No Dat	а		
Type Of Pump:		Submersible Depth to pump bowl: (No Data) ft				
Well Tests:		Jetted \ Estimated Yield: 20-30 GPM with (No Data) ft drawdown after (No Data) hours				
Water Quality:		Type of Water: Trinity Depth of Strata: 40 ft . Chemical Analysis Ma Did the driller knowing constituents: No	ide: No	nich contained undesirable		
Certification Data:		The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statemen herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion an				

	resubmittal.
Company Information:	Central Texas Drilling Co. 500 Southland Drive Burnet , TX 78611
Driller License Number:	1313
Licensed Well Driller Signature:	Frank Glass
Registered Driller Apprentice Signature:	No Data
Apprentice Registration Number:	No Data
Comments:	No Data

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Please include the report's Tracking number (Tracking #77384) on your written request.

Texas Department of Licensing & Regulation P.O. Box 12157 Austin, TX 78711 (512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

CASING, BLANK PIPE & WELL SCREEN DATA

Dia. New/Used Type Setting From/To 5" OD New Plastic +2-810 (SDR 17 - 750' & 60' Screen)

From (ft) To (ft) Description 000-001 Top soil 001-017 Caliche 017-090 Blue lime 090-340 Gray lime 340-400 Brown lime 400-610 Gray & brown lime strips sandstone 610-660 Hammond 660-700 Brown sandstone 700-810 Trinity 20-30 gpm

Owner:	Fred Edlin		Owner Well #:	No Data
Address:	129 Royal Oaks Lane Lakeway , TX 78734		Grid #:	57-48-3
Well Location:	4313 Travis Vista Lakeway , TX 78734		Latitude:	30° 20' 01" N
Well County:	Travis		Longitude:	098° 00' 19" W
Elevation:	No Data		GPS Brand Used:	e-Trax
Type of Work:	New Well		Proposed Use:	Domestic
Drilling Date:		Started: 9/10/2005 Completed: 9/11/2005		
Diameter of Hol	e:	Diameter: 8 in From Su Diameter: 6 in From 20		
Drilling Method:		Air Rotary		
Borehole Comp	letion:	Straight Wall		
Annular Seal Data:		1st Interval: From 0 ft to 20 ft with 4 of Portland (#sacks and material) 2nd Interval: No Data 3rd Interval: No Data Method Used: Slurry Cemented By: Apex Drilling, Inc Distance to Septic Field or other Concentrated Contamination: 100 ft Distance to Property Line: 50 ft Method of Verification: Landowner Approved by Variance: No Data		
Surface Completion:		Surface Sleeve Install	ed	
Water Level:		Static level: No Data Artesian flow: No Data		
Packers:		Burlap 700', 695', 20'		
Plugging Info:		Casing or Cement/Bente	onite left in well: No Dat	а
Type Of Pump:		No Data		
Well Tests:		Jetted \ Estimated Yield: 35 GPM with (No) Data) ft drawdown af	ter (No Data) hours
Water Quality:		Type of Water: Trinity Depth of Strata: 700-87 Chemical Analysis Made Did the driller knowingly constituents: No	e: No	nich contained undesirable
Certification Data:		under the driller's direct	supervision) and that ea	II (or the well was drilled ach and all of the statement bod that failure to complete

Company Information:	Apex Drilling, Inc PO Box 867 Marble Falls , TX 78654
Driller License Number:	54516
Licensed Well Driller Signature:	Michael G Becker P.G.
Registered Driller Apprentice Signature:	No Data
Apprentice Registration Number:	No Data
Comments:	No Data

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Please include the report's Tracking number (Tracking #91305) on your written request.

Texas Department of Licensing & Regulation P.O. Box 12157 Austin, TX 78711 (512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description 000-032 Tan Limestone 032-320 Tan-Grey Limestone 320-440 Tan Limestone 440-620 Grey & Tan Limestone 620-675 Grey Limestone w/ Clay 675-700 Red Clay w/ Sand H2O 700-710 Gravel 710-755 Red Sand 755-785 Tan Limestone 785-840 Red Sandstone 840-860 White Limestone 860-875 Gravel CASING, BLANK PIPE & WELL SCREEN DATA

 Dia.
 New/Used
 Type
 Setting From/To

 4.5" (5" OD) New PVC +2' to 775' SDR17

 4.5" (5" OD) New PVC Slotted 775' to 795' .035

 4.5" (5" OD) New PVC 795' to 855' SDR17

 4.5" (5" OD) New PVC Slotted 855' to 875' .035

Well Report: Tracking #:92326

Owner:	Andrew Heller		Owner Well #:	No Data	
Address:	4501 Henning Dr Austin , TX 78738		Grid #:	58-41-4	
Well Location:	4501 Henning Dr Austin , TX 78738		Latitude:	30° 19' 39" N	
Well County:	Travis		Longitude:	097° 59' 34" W	
Elevation:	No Data		GPS Brand Used:	e-Trax	
Type of Work:	New Well		Proposed Use:	Domestic	
Drilling Date:		Started: 8/23/2005 Completed: 8/23/200	95		
Diameter of Hol	e:	Diameter: 8 in From Diameter: 6 in From			
Drilling Method:		Air Rotary			
Borehole Comp	letion:	Straight Wall	Straight Wall		
nnular Seal Data:		1st Interval: From 0 ft to 20 ft with 4 of Portland (#sacks and material) 2nd Interval: No Data 3rd Interval: No Data Method Used: Slurry Cemented By: Apex Drilling, Inc Distance to Septic Field or other Concentrated Contamination: 100 ft Distance to Property Line: 50 ft Method of Verification: Landowner Approved by Variance: No Data			
Surface Comple	etion:	Surface Sleeve Ins	stalled		
Water Level:		Static level: No Data Artesian flow: No Da			
Packers:		Burlap 700', 695', 2	0'		
Plugging Info:		Casing or Cement/B	entonite left in well: No Dat	а	
Type Of Pump:		No Data			
Well Tests:		Jetted \ Estimated Yield: 30 GPM with	(No Data) ft drawdown af	ter (No Data) hours	
Water Quality:		Type of Water: Trini Depth of Strata: 705 Chemical Analysis M Did the driller knowir constituents: No	-860 ft.	hich contained undesirable	
under hereir		under the driller's dir herein are true and o	hat the driller drilled this we ect supervision) and that ex correct. The driller underste	ach and all of the statemen	

Company Information:	Apex Drilling, Inc PO Box 867 Marble Falls , TX 78654
Driller License Number:	54516
Licensed Well Driller Signature:	Michael G Becker P.G.
Registered Driller Apprentice Signature:	No Data
Apprentice Registration Number:	No Data
Comments:	No Data

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Please include the report's Tracking number (Tracking #92326) on your written request.

Texas Department of Licensing & Regulation P.O. Box 12157 Austin, TX 78711 (512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description 000-028 Caliche 028-080 Blue Limestone 080-180 Grey-Tan Limestone 180-350 Grey-Limestone w/ Clay 350-530 Tan-Grey Limestone 530-590 Tan Limestone 590-640 White Limestone 640-655 Grey Limestone 655-690 Clay 690-705 Grey Sandstone 705-770 Red Sand H2O 770-810 Tan Limestone 810-845 Red Sand H2O 845-860 Gravel 860-880 Tan-Blue Clay

CASING, BLANK PIPE & WELL SCREEN DATA

 Dia.
 New/Used
 Type
 Setting From/To

 4.5" (5" OD) New PVC +2' to 780' SDR17

 4.5" (5" OD) New Slotted PVC 780' to 860' .035

 4.5" (5" OD) New PVC 860' to 880' SDR17

Well Report: Tracking #:93219

Owner:	J R BOEHL		Owner Well #:	No Data
Address:	239 BORA BORA DR GALVESTON , TX 77554		Grid #:	58-41-1
Well Location:	17106 MAJESTIC RIDGE AUSTIN , TX 78738		Latitude:	30° 20' 31" N
Well County:	Travis		Longitude:	097° 59' 41" W
Elevation:	1010 ft.		GPS Brand Used:	GARMIN
Type of Work:	New Well		Proposed Use:	Domestic
Drilling Date:		Started: 8/17/2006 Completed: 8/18/2006		
Diameter of Hol	e:	Diameter: 8 in From Sur Diameter: 6.75 in From 7		
Drilling Method:		Air Rotary		
Borehole Comp	letion:	Open Hole		
Annular Seal Da	ata:	1st Interval: From 0 ft to 2 ft with 2 (#sacks and material) 2nd Interval: From 2 ft to 13 ft with 8 (#sacks and material) 3rd Interval: No Data Method Used: SLURRIED & POURED Cemented By: BOBBY ROBERTS Distance to Septic Field or other Concentrated Contamination: No Distance to Property Line: No Data Method of Verification: NOT YET INSTALLED Approved by Variance: No Data		and material)
Surface Comple	etion:	Surface Sleeve Installe	d	
Water Level:		Static level: 540 ft. belov Artesian flow: No Data	v land surface on 8/2	1/2006
Packers:		NEOPRENE 13 NEOPRENE 725 NEOPRENE 730		
Plugging Info:		Casing or Cement/Bentor	nite left in well: No Dat	a
Type Of Pump:		Submersible Depth to pump bowl: 700	ft	
Well Tests:		Jetted \ Estimated Yield: 25 GPM with (No	Data) ft drawdown af	ter (No Data) hours
Water Quality:		Type of Water: No Data Depth of Strata: No Data Chemical Analysis Made: Did the driller knowingly p constituents: No	Yes	nich contained undesirable

Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	BEE CAVE DRILLING 185 ANGELFIRE DR DRIPPING SPRINGS , TX 78620
Driller License Number:	54416
Licensed Well Driller Signature:	BOBBY ROBERTS
Registered Driller Apprentice Signature:	No Data
Apprentice Registration Number:	No Data
Comments:	No Data

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Please include the report's Tracking number (Tracking #93219) on your written request.

Texas Department of Licensing & Regulation P.O. Box 12157 Austin, TX 78711 (512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

CASING, BLANK PIPE & WELL SCREEN DATA

From (ft) To (ft) Description 0-2 TOPSOIL 2-51 TAN LIMESTONE 51-520 GREY LIMESTONE 520-646 GREY ROCK 646-680 GREY SHALE 680-690 GREY ROCK 690-715 TAN ROCK 715-725 BROWN CLAY 725-790 BROWN ROCK W/B 25 GPM TDS 1440 790-795 BLUE CLAY
 Dia.
 New/Used
 Type
 Setting From/To

 4.5 NEW PLASTIC 0-730
 4.5 NEW SCREEN MFG. 730-790 .050
 4.5 NEW PLASTIC 790-795

Owner:	Daniel Straub		Owner Well #:	No Data
Address:	15207 Sutton Dr. Austin , TX 78734		Grid #:	58-41-1
Well Location:	Lot 13 Cardinal Hills Est. Lakeway , TX 78734	Unit 14	Latitude:	30° 21' 46" N
Well County:	Travis		Longitude:	097° 58' 07" W
Elevation:	No Data		GPS Brand Used:	Мар
Type of Work:	New Well		Proposed Use:	Domestic
Drilling Date:		Started: 2/2/2004 Completed: 2/4/2		
Diameter of Hol	e:	Diameter: 8 in Fr	om Surface To 500 ft	
Drilling Method:		Air Hammer		
Borehole Comp	letion:	Straight Wall		
Annular Seal Da	ata:	2nd Interval: No I 3rd Interval: No D Method Used: Tri Cemented By: B . Distance to Septi Distance to Prope Method of Verifica Approved by Varia	Data imie Pressure Cement Strong c Field or other Concentrated erty Line: No Data ation: Measuring Wheel ance: No Data	
Surface Comple	etion:	Surface Sleeve	Installed	
Water Level:		Static level: 432 f Artesian flow: No	t. below land surface on 2/2 Data	/2004
Packers:		Rubber 100		
Plugging Info:		Casing or Cemen	t/Bentonite left in well: No Dat	а
Type Of Pump:		No Data		
Well Tests:		Estimated Yield: 20 GPM wi	ith (No Data) ft drawdown af	ter (No Data) hours
Water Quality:		Type of Water: N Depth of Strata: N Chemical Analysi Did the driller kno constituents: No	No Data	nich contained undesirable
Certification Da	ta:	under the driller's herein are true ar	ed that the driller drilled this we direct supervision) and that ea nd correct. The driller understo s will result in the log(s) being	ach and all of the statement bod that failure to complete

Company Information:	Highland Drilling, Inc. 309 Frazier St. Tow , TX 78672
Driller License Number:	54563
Licensed Well Driller Signature:	Bryan Strong
Registered Driller Apprentice Signature:	No Data
Apprentice Registration Number:	No Data
Comments:	Logged by DT\$

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Please include the report's Tracking number (Tracking #99878) on your written request.

Texas Department of Licensing & Regulation P.O. Box 12157 Austin, TX 78711 (512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description 0-1 Top Soil 1-18 Caliche 18-280 Blue Shale 280-325 Sandstone 325-342 Blue Shale 342-442 Sandstone 442-463 Blue Shale 463-467 Sand 467-475 Sandstone 475-500 Blue Shale CASING, BLANK PIPE & WELL SCREEN DATA

Dia. New/Used Type 5 N PVC 0/460 Sch 40 5 N Perf. 460/480 Sch 40 5 N PVC 480/500 Sch 40 Setting From/To

Owner:	Mollison Homes c/o Mi	ke Mollison	Owner Well #:	No Data
Address:	17115 Majestic Ridge Lakeway , TX 78738		Grid #:	57-48-6
Well Location:	17012 Flint Rock RD Lakeway,TX 78738		Latitude:	30° 19' 59" N
Well County:	Travis		Longitude:	098° 00' 14" W
Elevation:	No Data		GPS Brand Used:	e-Trax
Type of Work:	New Well		Proposed Use:	Domestic
Drilling Date:		Started: 4/25/2007 Completed: 4/25/2		
Diameter of Hol	e:		m Surface To 20 ft rom 20 ft To 845 ft	
Drilling Method:		Air Rotary		
Borehole Comp	letion:	Straight Wall		
Annular Seal Data:		2nd Interval: No D 3rd Interval: No D a Method Used: Slu Cemented By: Ap	ata rry ex Drilling, Inc Field or other Concentrated rty Line: 50 ft tion: Landowner	
Surface Completion: Surface		Surface Sleeve In	nstalled	
Water Level:		Static level: No Da Artesian flow: No I		
Packers:		Neoprene 635', 6	30', 625', 20	
Plugging Info:		Casing or Cement	/Bentonite left in well: No Dat	a
Type Of Pump:		No Data		
Well Tests:		Estimated Yield: 50 GPM wit	h (No Data) ft drawdown af	ter (No Data) hours
Water Quality:		Type of Water: Tri Depth of Strata: 63 Chemical Analysis Did the driller know constituents: No	37-835 ft.	hich contained undesirable
under the		under the driller's of herein are true and	I that the driller drilled this we direct supervision) and that ea d correct. The driller underst	ach and all of the statemen ood that failure to complete

Company Information:	Apex Drilling, Inc PO Box 867 Marble Falls , TX 78654
Driller License Number:	54989
Licensed Well Driller Signature:	Andrew J Johnson
Registered Driller Apprentice Signature:	No Data
Apprentice Registration Number:	No Data
Comments:	No Data

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Please include the report's Tracking number (Tracking #117485) on your written request.

Texas Department of Licensing & Regulation P.O. Box 12157 Austin, TX 78711 (512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description 000-030 Caliche 030-090 Blue Limestone 090-210 Grey Limestone 210-410 Grey-Tan Limestone 410-450 Tan Limestone 450-525 Grey Limestone 525-560 Tan Limestone 560-580 Grey Limestone / Clay 580-605 Clay 605-637 Grey Sandy Limestone 637-645 Red Sandstone 645-660 Sand 660-704 Red Sandstone 704-715 White Limestone 715-740 Sand 740-782 Tan Limestone 782-835 Sand / Gravel 835-845 Tan Clay

CASING, BLANK PIPE & WELL SCREEN DATA

Dia. New/Used	Туре	Setting From/To
4.5" (5" OD) New	PVC +2' to 71	5' SDR17
4.5" (5" OD) New	Slotted PVC	715' to 735' .035
4.5" (5" OD) New	PVC 735' to 7	'55' SDR17
4.5" (5" OD) New	Slotted PVC	755' to 775' .035
4.5" (5" OD) New	PVC 775' to 7	'95' SDR17
4.5" (5" OD) New	Slotted PVC	795' to 835' .035
4.5" (5" OD) New	PVC 835' to 8	845' SDR17

Owner:	Village Service Center		Owner Well #:	MW-3	
Address:	6607 Whitemarsh Valley Austin , TX 78746	Walk	Grid #:	58-41-1	
Well Location:	2200 Lakeway Blvd Austin , TX 78734		Latitude:	30° 21' 28" N	
Well County:	Travis		Longitude:	097° 58' 44" W	
Elevation:	No Data		GPS Brand Used:	Garmin etrex	
Type of Work:	New Well		Proposed Use:	Monitor	
Drilling Date:		Started: 5/8/2008 Completed: 5/8/2008			
Diameter of Hole	:	Diameter: 7.875 in Fi	om Surface To 100 ft		
Drilling Method:		Air Rotary			
Borehole Compl	etion:	Gravel Packed From: 58 ft to 100 ft Gravel Pack Size: 8/16			
Annular Seal Da		2nd Interval: From 2 3rd Interval: No Data Method Used: poure Cemented By: Talon	eld or other Concentrated (Line: No Data :: No Data	ite (#sacks and material)	
Surface Complet	tion:	Surface Slab Install	ed		
Water Level:		Static level: No Data Artesian flow: No Da t	а		
Packers:		No Data			
Plugging Info:		Casing or Cement/Bentonite left in well: No Data			
Type Of Pump:		No Data			
Well Tests:		No Data			
Water Quality:		Type of Water: fresh Depth of Strata: No E Chemical Analysis Ma Did the driller knowin constituents: No		ich contained undesirable	
Certification Data:		The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statemen herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.			

Company Information:	Talon Drilling, LP 921 N Bivins Amarillo , TX 79107
Driller License Number:	54499
Licensed Well Driller Signature:	Shane Currie
Registered Driller Apprentice Signature:	No Data
Apprentice Registration Number:	No Data
Comments:	No Data

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #142814) on your written request.

Texas Department of Licensing & Regulation P.O. Box 12157 Austin, TX 78711 (512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

CASING, BLANK PIPE & WELL SCREEN DATA

Owner:	Village Service Center		Owner Well #:	MW-5		
Address:	6607 Whitemarsh Valley Austin , TX 78746	Walk	Grid #:	58-41-1		
Well Location:	2200 Lakeway Blvd Austin , TX 78734		Latitude:	30° 21' 28" N		
Well County:	Travis		Longitude:	097° 58' 44" W		
Elevation:	No Data		GPS Brand Used:	Garmin etrex		
Type of Work:	New Well		Proposed Use:	Monitor		
Drilling Date:		Started: 5/8/2008 Completed: 5/8/20	08			
Diameter of Hol	e:	Diameter: 7.875 in	From Surface To 100 ft			
Drilling Method:		Air Rotary				
Borehole Comp	letion:	Gravel Packed From: 58 ft to 100 ft Gravel Pack Size: 8/16				
Annular Seal Da	a.a.	2nd Interval: From 3rd Interval: No Da Method Used: pou Cemented By: Take	red on Field or other Concentrated (ty Line: No Data ion: No Data	ite (#sacks and material)		
Surface Comple	etion:	Surface Slab Inst	alled			
Water Level:		Static level: No Da Artesian flow: No E				
Packers:		No Data				
Plugging Info:		Casing or Cement/	Bentonite left in well: No Data	a		
Type Of Pump:		No Data				
Well Tests:		No Data				
Water Quality:		Type of Water: fre Depth of Strata: No Chemical Analysis Did the driller know constituents: No	o Data	nich contained undesirable		
Certification Data:		The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statement herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.				

Company Information:	Talon Drilling, LP 921 N Bivins Amarillo , TX 79107
Driller License Number:	54499
Licensed Well Driller Signature:	Shane Currie
Registered Driller Apprentice Signature:	No Data
Apprentice Registration Number:	No Data
Comments:	No Data

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #142817) on your written request.

Texas Department of Licensing & Regulation P.O. Box 12157 Austin, TX 78711 (512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

CASING, BLANK PIPE & WELL SCREEN DATA

From (ft) To (ft) Description 0 to 1.5 Brown, 10R 5/4, Top Soil/Fill-Gravelly Clay, Firm, Roots, Damp, No Odor 1.5 to 6 Dark Reddish Tan, 5R 2/6, Clay, Moderate Plasticity, Stiff, Stick Appearance, Damp, No Odor 6 to 100 Dark Reddish Tan, 5R 2/6, Clay, Moderate Plasticity, Stiff, Stick Appearance, At 20' Becomes Clayey and Gray, 10R 6/2, Damp, No Odor Dia. New/Used Type Setting From/To 4 new pvc casing 0 to 60 sch 40 4 new pvc screen 60 to 100 slot 0.010

Owner:	Village Service Center		Owner Well #:	MW-6	
Address:	6607 Whitemarsh Valley Austin , TX 78746	Walk	Grid #:	58-41-1	
Well Location:	2200 Lakeway Blvd Austin , TX 78734		Latitude:	30° 21' 28" N	
Well County:	Travis		Longitude:	097° 58' 44" W	
Elevation:	No Data		GPS Brand Used:	Garmin etrex	
Type of Work:	New Well		Proposed Use:	Monitor	
Drilling Date:		Started: 5/7/2008 Completed: 5/7/2008			
Diameter of Hole	9:	Diameter: 7.875 in Fro	m Surface To 100 ft		
Drilling Method:		Air Rotary			
Borehole Compl	etion:	Gravel Packed From: 58 ft to 100 ft Gravel Pack Size: 8/16			
Annular Seal Da		2nd Interval: From 2 ft 3rd Interval: No Data Method Used: poured Cemented By: Talon Distance to Septic Field Distance to Property Li Method of Verification: Approved by Variance:	d or other Concentrated (ne: No Data No Data No Data	ite (#sacks and material)	
Surface Comple	tion:	Surface Slab Installed	1		
Water Level:		Static level: No Data Artesian flow: No Data			
Packers:		No Data			
Plugging Info:		Casing or Cement/Bentonite left in well: No Data			
Type Of Pump:		No Data			
Well Tests:		No Data			
Water Quality:		Type of Water: fresh Depth of Strata: No Da Chemical Analysis Mac Did the driller knowingly constituents: No	e: No	nich contained undesirable	
Certification Data:		The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statement herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.			

Company Information:	Talon Drilling, LP 921 N Bivins Amarillo , TX 79107
Driller License Number:	54499
Licensed Well Driller Signature:	Shane Currie
Registered Driller Apprentice Signature:	No Data
Apprentice Registration Number:	No Data
Comments:	No Data

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #142819) on your written request.

Texas Department of Licensing & Regulation P.O. Box 12157 Austin, TX 78711 (512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

CASING, BLANK PIPE & WELL SCREEN DATA

From (ft) To (ft) Description 0 to 2' Dark Brown, 10R 3/4, Clayey Gravel, Moderate	4 new	New/Used / pvc casing	,	
Plasticity, Soft to Firm,	4 new	/ pvc screei	n 60 to 100	slot 0.010
Damp, No Odor				
2 to 3 Dark Reddish Tan, 5R 2/6, Clay, Moderate				
Plasticity, Stiff, Slick				
Appearance, Damp, No Odor				
3 to 19 Light Tan-White, 10YR 8/2, Weathered				
Limestone, Dense, Massive, Dry,				
No Odor				
19 to 23 Becomes More Clayey And GRay, 10R 6/2				
23 to 60 Reddish Brown, 10R 4/6, Weathered				
Limestone, Some Weathered Clay,				
No Odor				
Rock To Friable to Get a Rock Core Sample				
60 to 100 Becomes Gray, 10R 6/2, More Clayey, Less				
Dense				
Dellee				

Owner:	Village Service Center		Owner Well #:	MW-4		
Address:	6607 Whitemarsh Valley Austin , TX 78746	Walk	Grid #:	58-41-1		
Well Location:	2200 Lakeway Blvd Austin , TX 78734		Latitude:	30° 21' 28" N		
Well County:	Travis		Longitude:	097° 58' 44" W		
Elevation:	No Data		GPS Brand Used:	Garmin etrex		
Type of Work:	New Well		Proposed Use:	Monitor		
Drilling Date:		Started: 5/6/2008 Completed: 5/6/2008				
Diameter of Hole	e:	Diameter: 7.875 in F	rom Surface To 33 ft			
Drilling Method:		Air Rotary				
Borehole Compl	letion:	Gravel Packed From: 13 ft to 30 ft Gravel Pack Size: 8/16				
		2nd Interval: From 2 3rd Interval: No Data Method Used: pource Cemented By: Talon	eld or other Concentrated (Line: No Data n: No Data	e (#sacks and material)		
Surface Comple	tion:	Surface Slab Instal	led			
Water Level:		Static level: No Data Artesian flow: No Da				
Packers:		No Data				
Plugging Info:		Casing or Cement/Be	entonite left in well: No Dat a	3		
Type Of Pump:		No Data				
Well Tests:		No Data				
Water Quality:		Type of Water: fresh Depth of Strata: No I Chemical Analysis M Did the driller knowir constituents: No	Data	ich contained undesirable		
Certification Data:		The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statement herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.				

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Please include the report's Tracking number (Tracking #142824) on your written request.

Texas Department of Licensing & Regulation P.O. Box 12157 Austin, TX 78711 (512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

CASING, BLANK PIPE & WELL SCREEN DATA

From (ft) To (ft) Description 0 to 2" BLack, 5R 2/2, Topsoil, Loam, Damp	Dia. New/Used Type 2 new pvc casing 0 to 10 s	U
2" to 1.5 Orange/Brown, 10R 5/4, Clay, High Plasticity,		
Firm, 35% Angular Gravel	-	
(2cm-21cm), Damp, No Odor		
1.5 to 3.5 Reddish Brown, 5R 3/4, GRavelly Clay, High		
Plasticity, Firm, 25% (>1		
Rich), White Angular Limestone Gravel, Likely		
Weathered Limestone,		
Damp, Slight Odor		
3.5 to 4.5 Orange Red, 10R 4/6, Gravelly Clay, Similar		
to above, Thick Limestone		
Lenses From 3.5-4.5, Damp, No Odor		
4.5 to 18 Light Tan-White, Limestone, 10YR 8/2,		
Massive, Hard with Some Friable		
Layers, Dry, No Odor		
18 to 23 GRay, 10R 6/2, Becoming More Weathered,		
Clayey		
23 to 33 Some Fossils-no Rock Core or Spoon		
Possible Due to Friability		

Owner:	McAden Cumby Builde	ers	Owner Well #:	No Data		
Address:	500 Cap.of Tx. Bldg.8, 5 AUSTIN , TX 78746	Ste.100	Grid #:	58-41-1		
Well Location:	3001 F.M. 620 SOUTH AUSTIN , TX 78734		Latitude:	30° 20' 00" N		
Well County:	Travis		Longitude:	097° 58' 03" W		
Elevation:	No Data		GPS Brand Used:	No Data		
Type of Work:	New Well		Proposed Use:	Irrigation		
Drilling Date:		Started: 6/19/20 Completed: 6/19				
Diameter of Ho	le:	Diameter: 8.625 in From Surface To 100 ft Diameter: 6.5 in From 100 ft To 760 ft				
Drilling Method	:	Air Rotary				
Borehole Comp	letion:	Other: CASED				
Annular Seal D	a.a.	2nd Interval: Fro 3rd Interval: No Method Used: P Cemented By: C Distance to Sept Distance to Prop Method of Verific Approved by Var	RESSURE TRIMMY CEMENT ENTRAL TEXAS DRILLING, I tic Field or other Concentrated perty Line: N/A ft cation: WELL DRILLED FIRST iance: No Data	LAY (#sacks and materia ING NC.		
Surface Comple	etion:	Pitless Adapter	[.] Used			
Water Level:		Static level: No I Artesian flow: No				
Packers:		5 BURLAP,PVC 640	,RUBBER 100,580,600,620,			
Plugging Info:		Casing or Ceme	nt/Bentonite left in well: No Da t	a		
Type Of Pump:		Submersible Depth to pump b	owl: (No Data) ft			
Well Tests:		Jetted Yield: 30-35 GPI	M with (No Data) ft drawdow	n after (No Data) hours		
Water Quality:		Type of Water: 1 Depth of Strata: Chemical Analys Did the driller kn constituents: No	85 ft. .is Made: No owingly penetrate any strata w	hich contained undesirable		
Certification Data:		The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete				

	the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	CENTRAL TEXAS DRILLING, INC. 2520 HWY. 290 WEST DRIPPING SPRINGS , TX 78620
Driller License Number:	4227
Licensed Well Driller Signature:	AARON GLASS
Registered Driller Apprentice Signature:	No Data
Apprentice Registration Number:	No Data
Comments:	Amended Ref# 6153 7/30/08

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #146505) on your written request.

Texas Department of Licensing & Regulation P.O. Box 12157 Austin, TX 78711 (512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description 0-2 FILL 2-18 CALICHE **18-20 BLUE LIMESTONE** 20-210 GRAY LIMESTONE 210-460 GRAY W/TAN LIMESTONE 460-510 TAN LIMESTONE 510-540 TAN/GRAY/BROWN LIMESTONE 540-560 TAN/BROWN SANDSTONE 560-580 BROWN/GRAY LIMESTONE 580-595 GRAY LIMESTONE 595-610 GRAY LIMESTONE W/HAMMIT CLAY 610-630 GRAY LIMESTONE W/RED CLAY 630-650 GRAY/TAN LIMESTONE W/ LITTLE CLAY 650-660 RED/GRAY LIMESTONE 660-720 RED/TAN SAND 720-760 SAND & GRAVEL

CASING, BLANK PIPE & WELL SCREEN DATA

Dia. New/Used Type Setting From/To 5" OD N SDR17 PVC +3 TO 760 5" OD N SDR17 PVC SLOT 660 TO 760 .032 Well Report: Tracking #:152651

Owner:	Gene Villanueva		Owner Well #:	1	
Address:	318 Nautilus Ave Lakeway , TX 78738		Grid #:	58-41-1	
Well Location:	3408 Serene Hills Court Lakeway , TX 78738		Latitude:	30° 20' 40" N	
Well County:	Travis		Longitude:	097° 59' 56" W	
Elevation:	937 ft.		GPS Brand Used:	No Data	
Type of Work:	New Well		Proposed Use:	Domestic	
Drilling Date:		Started: 8/29/2008 Completed: 9/3/2008			
Diameter of Hol	e:	Diameter: 8 in From Surf Diameter: 7 in From 120			
Drilling Method:		Air Rotary			
Borehole Comp	letion:	Straight Wall			
Annular Seal Da		1st Interval: From 0 ft to 7 2nd Interval: From 640 ft 3rd Interval: No Data Method Used: tremie Cemented By: ADC Distance to Septic Field of Distance to Property Line: Method of Verification: me Approved by Variance: No	to 700 ft with 18 (#sa r other Concentrated 50+ ft easured Data	acks and material)	
Surface Comple	etion:	Surface Sleeve Installed	3		
Water Level:		Static level: 409 ft. below Artesian flow: No Data	land surface on 9/6	/2008	
Packers:		neophrene 120'			
Plugging Info:		Casing or Cement/Benton	ite left in well: No Dat	a	
Type Of Pump:		Submersible Depth to pump bowl: 700 f	ft		
Well Tests:		Estimated Yield: 30 GPM with (No Data) ft drawdown after (No Data) hours			
Water Quality:		Type of Water: Trinity Depth of Strata: 740'-850' Chemical Analysis Made: Did the driller knowingly p constituents: No	No	hich contained undesirable	
Certification Data:			pervision) and that ea	II (or the well was drilled ach and all of the statemen bod that failure to complete	

	resubmittal.
Company Information:	Associated Drilling Co. P.O. Box 1060 Manchaca , TX 78652
Driller License Number:	1955
Licensed Well Driller Signature:	Byron Benoit
Registered Driller Apprentice Signature:	Frank Barnard
Apprentice Registration Number:	56366
Comments:	No Data

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Please include the report's Tracking number (Tracking #152651) on your written request.

Texas Department of Licensing & Regulation P.O. Box 12157 Austin, TX 78711 (512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

CASING, BLANK PIPE & WELL SCREEN DATA

From (ft) To (ft) Description 0-1 topsoil 1-13 caliche 13-247 gray limestone 247-249 void 249-600 gray limestone 600-640 shale 640-700 hard tan limestone 700-740 red sandstone 740-850 broken red sandstone Dia. New/Used Type Setting From/To 4.5" new plastic -2' to 850' sdr17

slotted 740'-850'

Owner:	David FaustDiamond	F Ranch	Owner Well #:	No Data	
Address:	P.O. Box 340080 Austin , TX 78734		Grid #:	58-41-4	
Well Location:	16177 Flint Rock Rd Austin , TX 78738		Latitude:	30° 19' 45" N	
Well County:	Travis		Longitude:	097° 58' 58" W	
Elevation:	No Data		GPS Brand Used:	unknown	
Type of Work:	New Well		Proposed Use:	Domestic	
Drilling Date:		Started: 7/29/2004 Completed: 7/29/2004			
Diameter of Hol	e:	Diameter: 9 in From S Diameter: 6 in From 30			
Drilling Method:	:	Air Rotary			
Borehole Comp	letion:	Straight Wall			
Annular Seal Da	ata:	2nd Interval: No Data 3rd Interval: No Data Method Used: slurry Cemented By: Westerr	l or other Concentrated (ne: No Data owner		
Surface Completion:		Surface Sleeve Installed			
Water Level:		Static level: No Data Artesian flow: No Data			
Packers:		PVC and burlap, 30' PVC and burlap, 620' PVC and burlap, 630'			
Plugging Info:		Casing or Cement/Bent	onite left in well: No Dat	a	
Type Of Pump:		Submersible Depth to pump bowl: (N	lo Data) ft		
Well Tests:		Jetted \ Estimated Yield: 15-20 GPM with	(No Data) ft drawdowr	after (No Data) hours	
Water Quality:		Type of Water: Trinity Depth of Strata: 45 ft. Chemical Analysis Mad Did the driller knowingly		nich contained undesirable	

Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	Western Water Wells, LLC 500 Southland Drive Burnet , TX 78611
Driller License Number:	1313
Licensed Well Driller Signature:	Frank A. Glass
Registered Driller Apprentice Signature:	No Data
Apprentice Registration Number:	No Data
Comments:	\$scd

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #174365) on your written request.

Texas Department of Licensing & Regulation P.O. Box 12157 Austin, TX 78711 (512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

CASING, BLANK PIPE & WELL SCREEN DATA

From (ft) To (ft) Description 0-1 topsoil 1-15 caliche 15-75 blue lime 75-315 gray lime 315-360 brown lime 360-490 gray and brown lime sandstone 490-525 white lime 5-8 gpm 525-560 gray lime 560-610 Hammond 610-630 gray lime 630-700 sandstone and sand 700-760 tan lime 760-800 sand strips 800-810 chert lime Dia. New/Used Type Setting From/To **5 OD N plastic +2-810 17 & 40**

Owner:	David Piland	С	Owner Well #:	No Data
Address:	26 Autumn Oak Austin , TX 78738	G	Grid #:	58-41-1
Well Location:	3605 Serene Hills Lot 27 Majestic Hills , TX	L	atitude:	30° 20' 33" N
Well County:	Travis	L	.ongitude:	097° 59' 50" W
Elevation:	No Data	G	SPS Brand Used:	unknown
Type of Work:	New Well	F	Proposed Use:	Domestic
Drilling Date:		Started: 7/2/2004 Completed: 7/2/2004		
Diameter of Hol	le:	Diameter: 9 in From Surfac Diameter: 6 in From 25 ft To		
Drilling Method:	:	Air Rotary		
Borehole Comp	letion:	Straight Wall		
Annular Seal Data:		1st Interval: From 0 ft to 25 2nd Interval: No Data 3rd Interval: No Data Method Used: slurry Cemented By: Western Wat Distance to Septic Field or o Distance to Property Line: N Method of Verification: owne Approved by Variance: No D	ter Wells, LLC ther Concentrated o Data er	
Surface Completion:		No Data		
Water Level:		Static level: No Data Artesian flow: No Data		
Packers:		PVC and burlap, 25' PVC and burlap, 660' PVC and burlap, 670'		
Plugging Info:		Casing or Cement/Bentonite	left in well: No Dat	а
Type Of Pump:		No Data		
Well Tests:		Jetted \ Estimated Yield: (No Data) GPM with ((No Data) ft drawd	own after (No Data) hours
Water Quality:		Type of Water: Trinity Depth of Strata: 40 ft. Chemical Analysis Made: Nc Did the driller knowingly pen constituents: No		nich contained undesirable
Certification Da	ta:	The driller certified that the c under the driller's direct supe herein are true and correct.	ervision) and that ea	ach and all of the statement

	the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	Western Water Wells, LLC 500 Southland Drive Burnet , TX 78611
Driller License Number:	1313
Licensed Well Driller Signature:	Frank A. Glass
Registered Driller Apprentice Signature:	No Data
Apprentice Registration Number:	No Data
Comments:	Well Test: no returns. \$scd

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #174386) on your written request.

Texas Department of Licensing & Regulation P.O. Box 12157 Austin, TX 78711 (512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description 0-1 topsoil 1-17 caliche 17-65 blue lime 65-275 gray lime 275-276 fracture--lost returns 276-580 lime 580-635 Hammond 635-670 lime 670-800 Trinity CASING, BLANK PIPE & WELL SCREEN DATA

Dia. New/Used Type Setting From/To 5 OD N plastic +2-800 SDR17&40

Owner:	Duncan Johnson Comm-Word (Owner)		Owner Well #:	No Data		
Address:	6601-A Bee Cave Road Austin , TX 78746		Grid #:	57-48-3		
Well Location:	17824 Serene Hills Pass Austin , TX 78738		Latitude:	30° 20' 36" N		
Well County:	Travis		Longitude:	098° 00' 22" W		
Elevation:	No Data		GPS Brand Used:	No Data		
Type of Work:	New Well		Proposed Use:	Domestic		
Drilling Date:		Started: 5/22/2009 Completed: 5/22/200	9			
Diameter of Hol	e:	Diameter: 9 in From Diameter: 6 in From				
Drilling Method:		Air Rotary				
Borehole Comp	letion:	Straight Wall				
Annular Seal Data:		2nd Interval: No Data 3rd Interval: No Data Method Used: Slurry Cemented By: Weste	ern Water Wells eld or other Concentrated (Line: 50+ ft n: Owner			
Surface Completion:		Surface Sleeve Inst	alled			
Water Level:		Static level: No Data Artesian flow: No Da t	a			
Packers:		6 PVC & Burlap @ 5	50', 640', 680', 695', 700', 7	'40'		
Plugging Info:		Casing or Cement/Be	entonite left in well: No Dat	a		
Type Of Pump:		Submersible Depth to pump bowl:	(No Data) ft			
Well Tests:		Jetted \ Estimated Yield: 30 GPM with (No Data) ft drawdown af	ter (No Data) hours		
Water Quality:		Type of Water: Trinit Depth of Strata: 60 ft Chemical Analysis Ma Did the driller knowin constituents: No	ade: No	nich contained undesirable		
Certification Da	ta:	under the driller's dire	orrect. The driller understo	ach and all of the statement bod that failure to complete		

	resubmittal.
Company Information:	Western Water Wells 500 Southland Dr. Burnet , TX 78611
Driller License Number:	1313
Licensed Well Driller Signature:	Frank Glass
Registered Driller Apprentice Signature:	No Data
Apprentice Registration Number:	No Data
Comments:	No Data

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #181840) on your written request.

Texas Department of Licensing & Regulation P.O. Box 12157 Austin, TX 78711 (512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description 000-001 Top Soil 001-040 Caliche 040-070 Blue Lime 070-315 Gray Lime 315-375 Brown Lime 375-395 White Soap Stone 395-590 Gray & Brown Lime 590-640 White & Brown 640-690 Hammond 690-748 Sand 740-890 Trinity 30 GPM CASING, BLANK PIPE & WELL SCREEN DATA

Dia. New/Used Type Setting From/To 5 OD New Plastic +2 to 890 SDR 17 80' Screen

Owner:	Aqua Land Lakeway Medical Dvlp, LLC		Owner Well #:	No Data		
Address:	3700 Buffalo Speedwa Houston , TX 77098	y Ste.1100	Grid #:	58-41-1		
Well Location:	3002 1/2 Ranch Rd. 620 Lakeway , TX 78738) South	Latitude:	30° 20' 02" N		
Well County:	Travis		Longitude:	097° 58' 13" W		
Elevation:	No Data		GPS Brand Used:	e-Trax		
Type of Work:	New Well		Proposed Use:	Irrigation		
Drilling Date:		Started: 11/21/2011 Completed: 11/22/20	11			
Diameter of Hol	e:	Diameter: 10 in Fron Diameter: 8 in From				
Drilling Method:		Air Rotary				
Borehole Comp	letion:	Straight Wall				
Annular Seal Data:		1st Interval: From 0 ft to 50 ft with 21 of Portland (#sacks and material 2nd Interval: No Data 3rd Interval: No Data Method Used: Slurry Cemented By: Apex Drilling, Inc. Distance to Septic Field or other Concentrated Contamination: 100+ ft Distance to Property Line: 50+ ft Method of Verification: Landowner Approved by Variance: No Data				
Surface Completion:		Surface Sleeve Inst	alled			
Water Level:		Static level: No Data Artesian flow: No Da t	а			
Packers:		Burlap/Neoprene 7 ⁻	0, 705, 700, 300, 60, 50			
Plugging Info:		Casing or Cement/Be	entonite left in well: No Dat	а		
Type Of Pump:		No Data				
Well Tests:		Jetted Yield: 50-60 GPM wi	th (No Data) ft drawdowr	n after (No Data) hours		
Water Quality:		Type of Water: Trinit Depth of Strata: 710 - Chemical Analysis M Did the driller knowin constituents: No	853 ft. ade: No	nich contained undesirable		
Certification Data:		under the driller's dire herein are true and c	orrect. The driller understo	II (or the well was drilled ach and all of the statement bod that failure to complete returned for completion and		

Company Information:	Apex Drilling, Inc. P O Box 867 Marble Falls , TX 78654
Driller License Number:	54516
Licensed Well Driller Signature:	Michael G. Becker, P. G.
Registered Driller Apprentice Signature:	No Data
Apprentice Registration Number:	No Data
Comments:	Reference to Variance #068-12 (Distance to Sewer Line)
	Amended 4/26/12 Ref.# 10346

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #278629) on your written request.

Texas Department of Licensing & Regulation P.O. Box 12157 Austin, TX 78711 (512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description 000-036 Fill 036-161 Grey Limestone 161-178 Tan Limestone 178-490 Grey/Tan Limestone 490-510 Tan Limestone 510-580 Grey/Tan Limestone 580-665 Grey Limestone w/Clay 665-710 Red Sandstone 710-715 Gravel H2O 715-742 Red Sandstone 742-754 Gravel H2O 754-790 Red Sandstone 790-800 Gravel H2O 800-830 Sandstone 830-853 Gravel H2O 853-860 Tan Clay

CASING, BLANK PIPE & WELL SCREEN DATA

Dia. New/Used Type Setting From/To 5" (5" OD) New PVC + 2' to 780' SDR17 5" (5" OD) New Slotted PVC 780' to 860' .035

8" New PVC 0' to 40' Sch40

Owner:	Lake Travis High Schoo	I	Owner Well #:	No Data
Address:	3324 Ranch Rd. 620 S. Austin , TX 78738		Grid #:	58-41-4
Well Location:	3324 Ranch Rd. 620 S. Austin , TX 78738		Latitude:	30° 19' 24" N
Well County:	Travis		Longitude:	097° 58' 19" W
Elevation:	No Data		GPS Brand Used:	e-Trax
Type of Work:	New Well		Proposed Use:	Domestic
Drilling Date:		Started: 8/22/2011 Completed: 8/22/2011		
Diameter of Hol	e:	Diameter: 8 in From Su	rface To 952 ft	
Drilling Method:		Air Rotary		
Borehole Comp	letion:	Straight Wall		
Annular Seal Da		2nd Interval: No Data 3rd Interval: No Data Method Used: Slurry Cemented By: Apex Dr Distance to Septic Field Distance to Property Lin Method of Verification: L Approved by Variance: N	illing, Inc. or other Concentrated e: 50+ ft .andowner No Data	and (#sacks and material Contamination: 100+ ft
Surface Comple	etion:	Surface Sleeve Install	ed	
Water Level:		Static level: No Data Artesian flow: No Data		
Packers:		Burlap/Neoprene 755, 760, 765, 60		
Plugging Info:		Casing or Cement/Bentonite left in well: No Data		
Type Of Pump:		No Data		
Well Tests:		Jetted Yield: 27 GPM with (No) Data) ft drawdown af	ter (No Data) hours
Water Quality:		Type of Water: Trinity Depth of Strata: 755-94 Chemical Analysis Made Did the driller knowingly constituents: No	e: No	nich contained undesirable
Certification Data:		under the driller's direct	supervision) and that ea	II (or the well was drilled ach and all of the statement bod that failure to complete returned for completion and

Company Information:	Apex Drilling, Inc. P O Box 867 Marble Falls , TX 78654
Driller License Number:	54516
Licensed Well Driller Signature:	Michael G. Becker, P. G.
Registered Driller Apprentice Signature:	No Data
Apprentice Registration Number:	No Data
Comments:	No Data

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Please include the report's Tracking number (Tracking #279798) on your written request.

Texas Department of Licensing & Regulation P.O. Box 12157 Austin, TX 78711 (512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description 000-001 Top Soil 001-024 Tan Limestone 024-118 Grey/Tan Limestone 118-128 Tan Limestone 128-492 Grey/Tan Limestone 492-520 Tan/White Limestone 520-680 Grey/Tan Limestone 680-755 Grey Limestone w/Clay 755-920 Red Sandstone 920-945 Gravel 945-952 Tan Clay CASING, BLANK PIPE & WELL SCREEN DATA

Dia. New/Used Type Setting From/To 4.5" (5" OD) New PVC + 2' to 872' SDR17 4.5" (5" OD) New Slotted PVC 872' to 952' .035

Owner:	Circle K Stores, Inc. #27	04681	Owner Well #:	B-1
Address:	P.O. Box 52085 Phoenix , AZ 85072		Grid #:	58-41-1
Well Location:	1405 S. Ranch Road 620 Austin , TX 78734		Latitude:	30° 20' 58" N
Well County:	Travis		Longitude:	097° 57' 48" W
Elevation:	No Data		GPS Brand Used:	Google Earth
Type of Work:	New Well		Proposed Use:	Monitor
Drilling Date:		Started: 6/5/2012 Completed: 6/5/2012	2	
Diameter of Hol	e:	Diameter: 6 in From	Surface To 80 ft	
Drilling Method:		Air Rotary		
Borehole Comp	letion:	Other: Plugged		
Annular Seal Da	ata:	1st Interval: No Data 2nd Interval: No Dat 3rd Interval: No Dat	a	
Surface Comple	tion:	Alternative Proced	lure Used	
Water Level:		Static level: No Data Artesian flow: No Da		
Packers:		N/A		
Plugging Info:			Cement/Bentonite left in we From (ft) To (ft) Cem/Bent	
Type Of Pump:		No Data		
Well Tests:		No Data		
Water Quality:		Type of Water: No E Depth of Strata: No Chemical Analysis M Did the driller knowin constituents: No Da	Data 1ade: No Data ngly penetrate any strata wł	nich contained undesirable
Certification Data:		The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.		
	nation:	Vortex Drilling, Inc		

Driller License Number:	4868
Licensed Well Driller Signature:	James E. Neal
Registered Driller Apprentice Signature:	Ralph Bartholomew
Apprentice Registration Number:	59046
Comments:	No Data

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #290846) on your written request.

Texas Department of Licensing & Regulation P.O. Box 12157 Austin, TX 78711 (512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL	DESC. &	COLOR	OF FOR	MATION	MATERIAL
-------------------------------------	---------	-------	--------	--------	----------

From (ft) To (ft) Description 0 - 6" Concrete 6" - 2' Caliche fill 2 - 80 Limestone CASING, BLANK PIPE & WELL SCREEN DATA

Dia. New/Used Type Setting From/To 1 New Schedule 40 PVC .010 80 - 70 Screen 1 New Schedule 40 PVC 70 - 0 Riser

TWDB Groundwater Database Query Result

REPORTED WATER WELL DATA ON STATE WELL NUMBER = 5841101

Query for another State Well Number:

Submit

| <u>Water Quality</u> | <u>Infrequent Constituent</u> | <u>Water Level</u> | <u>5 Day Water Level</u> | <u>Well Casing</u> | <u>Remarks</u> | <u>Scanned</u> <u>Images</u> |

*For a complete explanation, <u>click here to read the TWDB Groundwater Data System Data Dictionary</u>.

Field	Value	*Explanation
STATE WELL NUMBER	5841101]
COUNTY CODE	453	Travis County, Texas
BASIN	14	Colorado River Basin
PREVIOUS WELL NUMBER	Т	
LATITUDE	302030	DMS (in decimal degrees: 30.341667)
LAT DEC	30.341666	
LONGITUDE	975828	DMS (in decimal degrees: -97.974444)
LONG DEC	-97.974443	
OWNER 1	Ivan Wall	
OWNER 2		
DRILLER 1	Glass	
DRILLER 2		
SOURCE OF COORDINATES	1	
AQUIFER CODE	217HSTN	HOSSTON FORMATION
AQUIFER ID1	28	Trinity Aquifer
AQUIFER ID2		
AQUIFER ID3		
ELEVATION	920	feet
ELEVATION MEASUREMENT METHOD	М	Interpolated From Topo Map
ALPHA CODE		
DATE DRILLED	10161965	
WELL TYPE	W	Withdrawal of Water

WELJUEPTH	577	feet
SOURCE OF DEPTH	D	Driller's Log
TYPE OF LIFT	S	Submersible Pump
TYPE OF POWER	E	Electric Motor
HORSEPOWER		
PRIMARY WATER USE	Н	Domestic
SECONDARY WATER USE		
TERTIARY WATER USE		
WATER LEVEL AVAILABLE	Н	Click <u>here</u> for water level data
WATER QUALITY AVAILABLE	Y	Click <u>here</u> for water quality data
WELL LOGS AVAILABLE	D	
OTHER DATA AVAILABLE	М	
DATE COLLECTED OR UPDATED	08151991	
REPORTING AGENCY	01	TWDB or Predecessor Agency
WELL SCHEDULE IN FILE		
CONTRUCTION METHOD	C	Cable-tool
COMPLETION	X	Open Hole
CASING MATERIAL	S	Steel
SCREEN MATERIAL		
GMA	9	
RWPA	K	
DISTRICTID		

Groundwater Database Disclaimer

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For additional information or answers to questions concerning the TWDB GWDB contact <u>David</u> <u>Thorkildsen</u> at (512) 936-0871 or <u>Janie Hopkins</u> at (512) 936-0841.

You can download Groundwater Database Reports in ASCII text files from this link. The files are organized by Texas counties.

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TWDB Groundwater Database Query Result

REPORTED WATER WELL DATA ON STATE WELL NUMBER = 5841102

Query for another State Well Number:

Submit

| <u>Water Quality</u> | <u>Infrequent Constituent</u> | <u>Water Level</u> | <u>5 Day Water Level</u> | <u>Well Casing</u> | <u>Remarks</u> | <u>Scanned</u> <u>Images</u> |

*For a complete explanation, <u>click here to read the TWDB Groundwater Data System Data Dictionary</u>.

Field	Value	*Explanation	
STATE WELL NUMBER	5841102		
COUNTY CODE	453	Travis County, Texas	
BASIN	14	Colorado River Basin	
PREVIOUS WELL NUMBER			
LATITUDE	302131	DMS (in decimal degrees: 30.358611)	
LAT DEC	30.358611		
LONGITUDE	975801	DMS (in decimal degrees: -97.966944)	
LONG DEC	-97.966943		
OWNER 1	Youpon Golf Course		
OWNER 2			
DRILLER 1	Central Texas Drlg.		
DRILLER 2			
SOURCE OF COORDINATES	1		
AQUIFER CODE	217HSTN	HOSSTON FORMATION	
AQUIFER ID1	28	Trinity Aquifer	
AQUIFER ID2			
AQUIFER ID3			
ELEVATION	840	feet	
ELEVATION MEASUREMENT METHOD	М	Interpolated From Topo Map	
ALPHA CODE			

DATE אין ILLED	08121984	
WELL TYPE	W	Withdrawal of Water
WELL DEPTH	680	feet
SOURCE OF DEPTH	D	Driller's Log
TYPE OF LIFT	S	Submersible Pump
TYPE OF POWER	E	Electric Motor
HORSEPOWER		
PRIMARY WATER USE	I	Irrigation
SECONDARY WATER USE		
TERTIARY WATER USE		
WATER LEVEL AVAILABLE	N	
WATER QUALITY AVAILABLE	N	
WELL LOGS AVAILABLE	D	
OTHER DATA AVAILABLE		
DATE COLLECTED OR UPDATED	10131987	
REPORTING AGENCY	01	TWDB or Predecessor Agency
WELL SCHEDULE IN FILE		
CONTRUCTION METHOD	A	Air Rotary
COMPLETION	X	Open Hole
CASING MATERIAL	S	Steel
SCREEN MATERIAL		
GMA	9	
RWPA	K	
DISTRICTID		

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TWDB Groundwater Database Query Result

REPORTED WATER WELL DATA ON STATE WELL NUMBER = 5841403

Query for another State Well Number:

Submit

| <u>Water Quality</u> | <u>Infrequent Constituent</u> | <u>Water Level</u> | <u>5 Day Water Level</u> | <u>Well Casing</u> | <u>Remarks</u> | <u>Scanned</u> <u>Images</u> |

*For a complete explanation, <u>click here to read the TWDB Groundwater Data System Data Dictionary</u>.

Field	Value	*Explanation
STATE WELL NUMBER	5841403	
COUNTY CODE	453	Travis County, Texas
BASIN	14	Colorado River Basin
PREVIOUS WELL NUMBER		
LATITUDE	301940	DMS (in decimal degrees: 30.327778)
LAT DEC	30.327777	
LONGITUDE	975831	DMS (in decimal degrees: -97.975278)
LONG DEC	-97.975277	
OWNER 1	Charles Glass	
OWNER 2		
DRILLER 1	Emmett Glass	
DRILLER 2		
SOURCE OF COORDINATES	1	
AQUIFER CODE	218GLRSL	GLEN ROSE LIMESTONE,LOWER MEMBER
AQUIFER ID1	28	Trinity Aquifer
AQUIFER ID2		
AQUIFER ID3		
ELEVATION	1112	feet
ELEVATION MEASUREMENT METHOD	D	Digital Elevation Model -DEM
ALPHA CODE		

DATE UNILLED	00001970	
WELL TYPE	W	Withdrawal of Water
WELL DEPTH	816	feet
SOURCE OF DEPTH	0	Owner
TYPE OF LIFT		
TYPE OF POWER		
HORSEPOWER		
PRIMARY WATER USE	Н	Domestic
SECONDARY WATER USE		
TERTIARY WATER USE		
WATER LEVEL AVAILABLE	М	Click <u>here</u> for water level data
WATER QUALITY AVAILABLE	N	
WELL LOGS AVAILABLE		
OTHER DATA AVAILABLE		
DATE COLLECTED OR UPDATED	10221998	
REPORTING AGENCY	01	TWDB or Predecessor Agency
WELL SCHEDULE IN FILE		
CONTRUCTION METHOD	C	Cable-tool
COMPLETION	X	Open Hole
CASING MATERIAL	S	Steel
SCREEN MATERIAL		
GMA	9	
RWPA	K	
DISTRICTID		

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TWDB Groundwater Database Query Result

REPORTED WATER WELL DATA ON STATE WELL NUMBER = 5841407

Query for another State Well Number:

Submit

| <u>Water Quality</u> | <u>Infrequent Constituent</u> | <u>Water Level</u> | <u>5 Day Water Level</u> | <u>Well Casing</u> | <u>Remarks</u> | <u>Scanned</u> <u>Images</u> |

*For a complete explanation, <u>click here to read the TWDB Groundwater Data System Data Dictionary</u>.

Field	Value	*Explanation
STATE WELL NUMBER	5841407]
COUNTY CODE	453	Travis County, Texas
BASIN	14	Colorado River Basin
PREVIOUS WELL NUMBER		
LATITUDE	301924	DMS (in decimal degrees: 30.323333)
LAT DEC	30.323332	
LONGITUDE	975810	DMS (in decimal degrees: -97.969444)
LONG DEC	-97.969443	
OWNER 1	Lake Travis High	
OWNER 2	School #2	
DRILLER 1	Whisenant & Lyle	
DRILLER 2		
SOURCE OF COORDINATES	1	
AQUIFER CODE	217HSTN	HOSSTON FORMATION
AQUIFER ID1	28	Trinity Aquifer
AQUIFER ID2		
AQUIFER ID3		
ELEVATION	1095	feet
ELEVATION MEASUREMENT METHOD	D	Digital Elevation Model -DEM
ALPHA CODE		

DATE JILLED	06132013	
WELL TYPE	W	Withdrawal of Water
WELL DEPTH	1000	feet
SOURCE OF DEPTH	D	Driller's Log
TYPE OF LIFT	S	Submersible Pump
TYPE OF POWER	Е	Electric Motor
HORSEPOWER		
PRIMARY WATER USE	Ι	Irrigation
SECONDARY WATER USE		
TERTIARY WATER USE		
WATER LEVEL AVAILABLE	М	Click <u>here</u> for water level data
WATER QUALITY AVAILABLE	Y	Click <u>here</u> for water quality data
WELL LOGS AVAILABLE	J,I,Z	
OTHER DATA AVAILABLE		
DATE COLLECTED OR UPDATED	07312013	
REPORTING AGENCY	05	GROUNDWATER CONSERVATION DISTRICT
WELL SCHEDULE IN FILE		
CONTRUCTION METHOD	А	Air Rotary
COMPLETION	0	Open End
CASING MATERIAL	Р	PVC, Fiberglass, other Plastic
SCREEN MATERIAL		
GMA	9	
RWPA	K	
DISTRICTID		

Groundwater Database Disclaimer

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ATTACHMENT 10

Groundwater Quality Technical Report

ATTACHMENT 10 Groundwater Quality Technical Report

In accordance with 30 TAC 309.20(a)(4)(A), the attached exhibit shows all water wells within 0.5 miles of the land application site. A listing of these wells is shown below:

Well ID	Well Use	Casing
352449	Irrigation	4.5" PVC
152651	Domestic	4.5" PVC
174386	Domestic	5" PVC
93219	Domestic	4.5" PVC
305495	Domestic	5" PVC
279924	Geothermal	1" PVC
33901	Domestic	4.5" PVC
48727	Domestic	4.5" PVC
48731	Domestic	4.5" PVC
74002	Domestic	4.5" PVC
278629	Irrigation	5" PVC
146505	Irrigation	5" PVC
5841101	Domestic	8" Steel
142814	Monitor	4" PVC
142817	Monitor	4" PVC
142808	Monitor	4" PVC
142824	Monitor	4" PVC
142819	Monitor	4" PVC
137038	Monitor	2" PVC

Available well data has also been attached for each of the listed wells that are within 0.5 mile of the land application area. There are no monitoring wells on the project site. To protect groundwater quality, the permittee complies with buffer zones requirements of 30 TAC 309.13(c). No private or public wells were found to be located closer than 500 feet from the wastewater treatment plant or the land application boundary. Minimum separation distances from wastewater treatment units and wells are exceeded with the existing plant. The permittee also complies with 30 TAC 213 subchapter B, requirements for proposed facilities overlaying the Edwards Aquifer Contributing Zone. The treated effluent wastewater pond adheres to the standards in 30 TAC 217.203 pertaining to the design criteria for domestic wastewater systems. The pond is lined with geo-textile material having a coefficient of permeability less than 1x10-7 centimeters per second for a thickness of two feet corresponding to water depths less than eight feet. Application of the treated effluent will not occur during periods of inundation; frozen or saturated ground and no runoff of effluent will be allowed. Treated effluent will be distributed to crops at agronomic rates limited to what is necessary to sustain the vegetation.

ATTACHMENT 11

Soil Map & Soil Analysis

SOILS REPORT

HURST CREEK MUNICIPAL UTILITY DISTRICT

A soils map for the Hurst Creek Municipal Utility District Golf Course and Median Irrigation area is shown in Figure 1. The figure depicts the location of the portion of land that is currently irrigated with treated effluent. Irrigation of the golf course has been in place since 1982. The irrigation areas are superimposed over mapping of the indigenous soil units on a USGS base map. Soils mapping was based upon file information provided by the Natural Resources Conservation Service's (NRCS) online soil survey database. (NRCS, http://websoilsurvey.nrcs.usda.gov/app/).

As shown on the soils map, the predominant soil types in the area are Brackett-Rock, Tarrant-Soils, and Volente Silty Clay Loam.

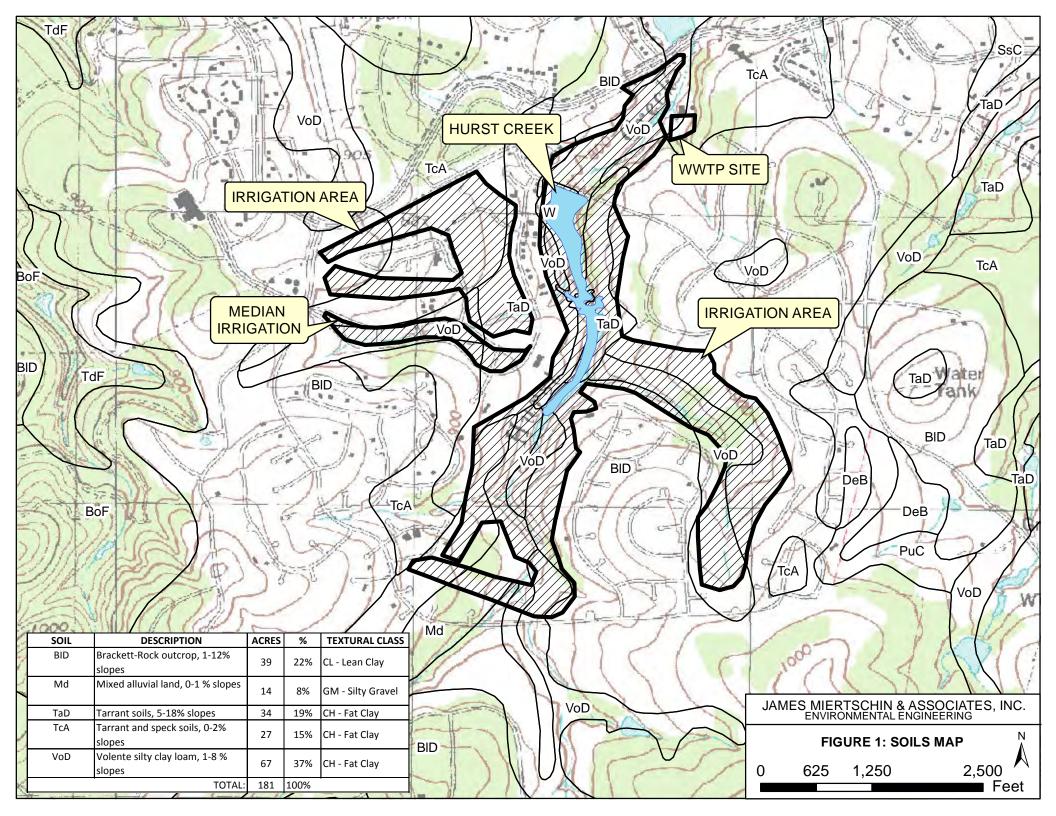
Soil properties are summarized in Table 1. The tabulated data was based upon information provided by the NRCS. The area of each of the indigenous soil types associated with the irrigation areas is described below:

SOIL	DESCRIPTION	ACRES	%
BID	Brackett-Rock outcrop, 1-12% slopes	39	22%
Md	Mixed alluvial land, 0-1 % slopes	14	8%
TaD	Tarrant soils, 5-18% slopes	34	19%
TcA	Tarrant and speck soils, 0-2% slopes	27	15%
VoD	Volente silty clay loam, 1-8 % slopes	67	37%
	TOTAL:	181	100%

The areas in the preceding tabulation exclude irrigation over the Hurst Creek waterway.

Table 1: Soil Properties

Soil Series	Hyd Group	Map Symbol	Depth (in)	USDA Texture	Percentage Passing Sieve No. 200	Liquid Limit	Plasticity Index	Permeability (in/hr)	AWC (in/in)	WaterTable Depth (ft)			
			0-6	Gravelly clay loam	55-80	25-43	10-26	0.57-1.98	0.09-0.16	(1)			
Bracket-Rock, 1-12 % Slopes	D	BID	6-18	Clay loam, gravelly loam, gravelly clay loam, loam	45-72	25-40	10-23	0.57-1.98	0.09-0.16	>6.5			
			18-48	Bedrock				0.06-1.98					
Mixed alluvial land, 0- 15% slopes, frequently flooded	А	Md	0-48	Stratified very gravelly coarse sand to very gravelly sand	5-20	0-20	NP-4	5.94-20.0	0.03-0.08	>6.5			
Tarrant soils, 5-18%	D	TaD	0-8	Very stony clay	36-95	51-75	25-44	0.20-0.57	0.05-0.10	>6.5			
slopes	D	TaD	8-12	Bedrock				0.06-1.98		>0.0			
Tarrant and Speck	D	TcA	0-10	Very stony clay	36-95	51-75	25-44	0.20-0.57	0.10-0.18	>6.5			
soils, 0-2% slopes	D	ICA	10-12	Bedrock				0.06-1.98		>0.0			
Volonto ciltu olov loom 1			0-36	Silty Clay Loam	85-96	51-65	25-37	0.20-0.57	0.15-0.20				
Volente silty clay loam 1-	С	VoD	36-46	Silty Clay, Clay Loam, Silty Clay Loam	85-95	45-55	25-32	0.20-0.57	0.15-0.20	>6.5			
8% slopes			46-54	Clay Loam, Silty Clay Loam, Clay	75-90	30-40	13-23	0.57-1.98	0.13-0.20				



General descriptions of the major soil types are provided below.

Brackett-Rock

The Brackett-Rock series consists of shallow, well drained soils that formed from residuum weathered from limestone. The typical profile includes a surface layer of gravelly clay loam 6 inches thick and a subsurface layer of clay loam down to bedrock at 18 inches.

Tarrant-Rock

The Tarrant-Rock series consists of shallow, well drained soils that formed from residuum weathered from limestone. The typical profile includes a surface layer of stony clay 7 inches thick down to bedrock.

Volente Silty-Clay Loam

The Volente series consists of deep, well-drained soils that developed in slope alluvium. The typical profile the surface layer is dark grayish-brown silty clay loam about 22 inches thick over a dark-brown silty clay.

An analysis of the soil in the land application area was prepared for this permit renewal and is displayed in Table 2. The locations of the soil sampling sites are shown in Figure 2.Upon review of the soil sampling data, fertilizer recommendations should remain based upon the nitrogen application rate for Bermudagrass that is discussed in the Cropping Plan of this permit renewal.



TABLE 2: HURST CREEK MUD

SOIL SAMPLING ANALYSIS, 2024

COMPOSITE	SAMPLE	DATE	Ph	CONDUCTIVITY	SAR	NA	Ca	Mg	TKN	TOTAL	NITRATE-	POTASSIUM	PHOSPHORUS	SULFUR	FERTILIZER
SAMPLE ID	DEPTH			(umhos/cm)		(mg/L)	(mg/L)	(mg/kg)	(mg/kg)	NITROGEN	N (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	RECOMMENDATION
										(mg/kg)					
SITE 1	0"-6"	02/05/24	8.4	126	2.29	183	12,034	628	942	948	6	407	6	126	1.1 lbs N/1000 sqft,
	6"-18"	02/05/24	8.6	106	1.16	144	30,371	445	374	378	4	220	0	315	3.9 lbs P2O5/1000
	18"-30"	02/05/24	8.6	107	0.94	122	32,969	380	119	120	1	72	0	336	sqft,
															2.3 lbs K2O/1000 sqft
SITE 2	0"-6"	02/05/24	8.5	58	0.29	34	27,754	304	379	381	2	108	0	255	1.1 lbs N/1000 sqft,
	6"-18"	02/05/24	8.3	88	1.30	143	23,636	370	363	364	1	217	0	232	3.9 lbs P2O5/1000
	18"-30"	02/05/24	8.3	89	1.91	165	14,409	449	692	693	1	253	2	171	sqft,
															1.5 lbs K2O/1000
															sqft
SITE 3	0"-6"	02/05/24	8.5	65	0.91	90	19,053	488	1140	1140	4	234	0	186	1.1 lbs N/1000 sqft,
	6"-18"	02/05/24	8.6	59	0.52	65	31,452	300	661	663	2	99	0	296	3.9 lbs P2O5/1000
	18"-30"	02/05/24	8.7	60	0.45	58	32,469	276	375	376	1	65	0	304	sqft,
															2.5 lbs K2O/1000 sqft

Email information for report date: 3/1/24 13:59

H001611

HURST CREEK MUD

Attn: Kurt Pendleton kurtpendleton@hurstcreekmud.org

102 TROPHY DRIVE AUSTIN, TX 78738

Please contact us for your sampling needs or if you have any questions. Some convenient contacts are listed below. You can also access your results and reports through our ClientConnect ™ portal on our website (www.aqua-techlabs.com).

For sampling questions:

samplingbryan@aqua-techlabs.com (Bryan area) samplingaustin@aqua-techlabs.com (Austin area)

reporting@aqua-techlabs.com (report questions)

Aqua-Tech values you as a customer and encourages you to speak with our staff at 979-778-3707 or the above emails if you have questions.

Thank you for your business, June M. Brien Executive Technical Director **BRYAN FACILITY** 635 Phil Gramm Boulevard Bryan, TX 77807 Phone: (979) 778-3707 Fax: (979) 778-3193



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Certificate: T104704371-23-27

TCEQ Lab ID T104704371

The analyses summarized in this report were performed by Aqua-Tech Laboratories, Inc. unless otherwise noted. Aqua-Tech Laboratories, Inc. holds accreditation from the State of Texas in accordance with TNI and/or through the TCEQ Drinking Water Commercial Laboratory Approval Program.

The following abbreviations indicate certification status:

- NEL TNI accredited parameter.
- ANR Accreditation not offered by the State of Texas.
- DWP Approval through the TCEQ Drinking Water Commercial Laboratory Approval Program.
- INF Aqua-Tech Laboratories, Inc. is not accredited for this parameter. It is reported on an informational basis only.

Subcontracted data summarized in this report is indicated by "Sub" in the Lab column.

General Definitions:

- NR Not Reported.
- RPD Relative Percent Difference.
- % R Percent Recovery.
- dry Results with the "dry" unit designation are reported on a "dry weight" basis.
- SQL The Sample Quantitation Limit is the value below which the parameter cannot reliably be detected. The SQL includes all sample preparations, dilutions and / or concentrations.
- Adj MDL The Adjusted Method Detection Limit is the MDL value adjusted for any sample dilutions or concentrations .
 - MDL The Method Detection Limit is the lowest theoretical value that is statistically different from zero for a specific method, taking into account all preparation steps and instrument settings.

All samples are reported on an "as received" basis unless the designation "dry" is added to the reported unit.

Copies of Aqua-Tech Laboratories, Inc. procedures and individual sampling plans are available upon request. Note that samples are collected by Aqua-Tech Laboratories, Inc. personnel unless otherwise noted in the "Sample Collected" field of this report as "Client" or "CLT".

Samples included in this report were received in acceptable condition according to Aqua-Tech Laboratories, Inc. procedures and 40 CFR, Chapter I, Subchapter D, Part 136.3, TABLE II. - *Required containers, preservation techniques, and holding times*, unless otherwise noted in this report.

Record Retention:

All reports, raw data, and associated quality control data are kept on file for 10 years before being destroyed. Any client that would like copies of records must contact Aqua-Tech Laboratories, Inc. no later than six months prior to the scheduled disposal. An administrative fee for retrieval and distribution will apply.

This report was approved by:

June M. Brien June M. Brien, Technical Director

The results in this report apply only to the samples analyzed. This analytical report must be reproduced in its entirety unless written permission is granted by Aqua-Tech Laboratories, Inc.

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Analytical Report

HURST CREEK MUD **Report Printed:** 3/1/24 13:59

H001611

See attached subcontract report for additional analysis and fertilizer recommendations.

Hurst Creek WWTP Soil 0-6 I	nches Site 3		05/24 12:42 by CL 08/24 16:00 by Kat			<i>Type</i> Comp		<i>Matrix</i> Solid	C-O-C H0016		
Lab ID# H001611-07	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry											
% Solids	84.9	g/100g (%)		0.10	0.10	0.10	Austin	02/09/24 16:52 MAM	SM2540 G 2015	M173203	NEL
Total Kjeldahl Nitrogen as N	1140	mg/kg dry		0.13	38.1	58.6	Bryan	02/20/24 14:06 KMA	SM4500-NH3 G 2011	M173598	ANR
Plant Available Parameters											
Total Nitrogen	1140	mg/kg dry wt.			N/A	N/A	Calc	02/28/24 15:02 PMY	Calculation	M174006	ANR
Please see the attached subcontract re	anort for subcontracted	l data									

Please see the attached subcontract report for subcontracted data.

Hurst Creek WWTP Soil 6-18	Inches Site 3		05/24 12:51 by CL 08/24 16:00 by Kat			<i>Type</i> Comp		<i>Matrix</i> Solid	C-O-C H0016		
Lab ID# H001611-08	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry											
% Solids	87.4	g/100g (%)		0.10	0.10	0.10	Austin	02/09/24 16:52 MAM	SM2540 G 2015	M173204	NEL
Total Kjeldahl Nitrogen as N	661	mg/kg dry		0.13	36.4	56.1	Bryan	02/20/24 14:06 KMA	SM4500-NH3 G 2011	M173598	ANR
Plant Available Parameters											
Total Nitrogen	663	mg/kg dry wt.			N/A	N/A	Calc	02/28/24 15:02 PMY	Calculation	M174006	ANR
Please see the attached subcontract re	enort for subcontracted	data									

Please see the attached subcontract report for subcontracted data.

Hurst Creek WWTP Soil 18-3	0 Inches Site 3		/05/24 13:03 by CLI /08/24 16:00 by Kat			<i>Type</i> Comp		<i>Matrix</i> Solid	C-O-C H0010		
Lab ID# H001611-09	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry											
% Solids	88.0	g/100g (%)		0.10	0.10	0.10	Austin	02/09/24 16:52 MAM	SM2540 G 2015	M173204	NEL
Total Kjeldahl Nitrogen as N	375	mg/kg dry		0.13	36.2	55.7	Bryan	02/20/24 14:06 KMA	SM4500-NH3 G 2011	M173598	ANR
Plant Available Parameters											
Total Nitrogen	376	mg/kg dry wt.			N/A	N/A	Calc	02/28/24 15:02 PMY	Calculation	M174006	ANR
Please see the attached subcontract re	port for subcontracted	data									

lease see the attached subcontract report for subcontracted data

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Analytical Report

HURST CREEK MUD

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Hurst Creek WWTP Soil 0-6 li	nches Site 2		05/24 13:13 by CLI 08/24 16:00 by Kath			<i>Type</i> Comp		<i>Matrix</i> Solid	C-O-C H0016		
Lab ID# H001611-04	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry											
% Solids	88.6	g/100g (%)		0.10	0.10	0.10	Austin	02/11/24 13:18 SR	SM2540 G 2015	M173227	NEL
Total Kjeldahl Nitrogen as N	379	mg/kg dry		0.13	36.1	55.5	Bryan	02/20/24 14:06 KMA	SM4500-NH3 G 2011	M173598	ANR
Plant Available Parameters											
Total Nitrogen	381	mg/kg dry wt.			N/A	N/A	Calc	02/28/24 15:02 PMY	Calculation	M174006	ANR

Please see the attached subcontract report for subcontracted data.

Hurst Creek WWTP Soil 6-18	Inches Site 2		/05/24 13:15 by CL /08/24 16:00 by Ka			<i>Type</i> Comp		<i>Matrix</i> Solid	C-O- H00 ⁻		
Lab ID# H001611-05	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry											
% Solids	80.0	g/100g (%)		0.10	0.10	0.10	Austin	02/09/24 16:52 MAM	SM2540 G 2015	M173203	NEL
Total Kjeldahl Nitrogen as N	363	mg/kg dry		0.13	40.5	62.3	Bryan	02/20/24 14:06 KMA	SM4500-NH3 G 2011	M173598	ANR
Plant Available Parameters											
Total Nitrogen	364	mg/kg dry wt.			N/A	N/A	Calc	02/28/24 15:02 PMY	Calculation	M174006	ANR
Please see the attached subcentract re	wout for a choose the stand										

Please see the attached subcontract report for subcontracted data.

Hurst Creek WWTP Soil 18-3	0 Inches Site 2		//05/24 13:19 by CL //08/24 16:00 by Kat			<i>Type</i> Comp		<i>Matrix</i> Solid	C-O-C H0016		
Lab ID# H001611-06	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry											
% Solids	81.7	g/100g (%)		0.10	0.10	0.10	Austin	02/09/24 16:52 MAM	SM2540 G 2015	M173203	NEL
Total Kjeldahl Nitrogen as N	692	mg/kg dry		0.13	39.6	61.0	Bryan	02/20/24 14:06 KMA	SM4500-NH3 G 2011	M173598	ANR
Plant Available Parameters											
Total Nitrogen	693	mg/kg dry wt.			N/A	N/A	Calc	02/28/24 15:02 PMY	Calculation	M174006	ANR
Diagon and the attached subcentrast re	wout for a change at a d										

Please see the attached subcontract report for subcontracted data.

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Hurst Creek WWTP Soil 0-6 l	nches Site 1		05/24 13:30 by CLIE 08/24 16:00 by Kath			<i>Type</i> Comp		<i>Matrix</i> Solid	с С-О-С Н0016		
Lab ID# H001611-01	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry											
% Solids	80.3	g/100g (%)		0.10	0.10	0.10	Austin	02/09/24 16:52 MAM	SM2540 G 2015	M173203	NEL
Total Kjeldahl Nitrogen as N	942	mg/kg dry		0.13	80.2	123	Bryan	02/20/24 14:06 KMA	SM4500-NH3 G 2011	M173599	ANR
Plant Available Parameters											
Total Nitrogen	948	mg/kg dry wt.			N/A	N/A	Calc	02/28/24 15:02 PMY	Calculation	M174006	ANR
Diagon and the attached subcontract re	went for a choost the stad										

Please see the attached subcontract report for subcontracted data.

Hurst Creek WWTP Soil 6-18	Inches Site 1		05/24 13:35 by CLI 08/24 16:00 by Kat			<i>Type</i> Comp		<i>Matrix</i> Solid	C-O- H001		
Lab ID# H001611-02	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry											
% Solids	84.6	g/100g (%)		0.10	0.10	0.10	Austin	02/09/24 16:52 MAM	SM2540 G 2015	M173203	NEL
Total Kjeldahl Nitrogen as N	374	mg/kg dry		0.13	37.9	58.4	Bryan	02/20/24 14:06 KMA	SM4500-NH3 G 2011	M173599	ANR
Plant Available Parameters											
Total Nitrogen	378	mg/kg dry wt.			N/A	N/A	Calc	02/28/24 15:02 PMY	Calculation	M174006	ANR
Please see the attached subcontract re	port for subcontracted	data									

Please see the attached subcontract report for subcontracted data.

Hurst Creek WWTP Soil 18-3	0 Inches Site 1		/05/24 13:39 by CLI /08/24 16:00 by Kat			<i>Type</i> Comp		<i>Matrix</i> Solid	C-O-C H0016		
Lab ID# H001611-03	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry											
% Solids	86.6	g/100g (%)		0.10	0.10	0.10	Austin	02/11/24 13:18 SR	SM2540 G 2015	M173227	NEL
Total Kjeldahl Nitrogen as N	119	mg/kg dry		0.13	75.0	115	Bryan	02/20/24 14:06 KMA	SM4500-NH3 G 2011	M173598	ANR
Plant Available Parameters											
Total Nitrogen	120	mg/kg dry wt.			N/A	N/A	Calc	02/28/24 15:02 PMY	Calculation	M174006	ANR
Diagon and the attached subcontract re	went for a choose the stand										

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				C	General C	Chemistry - Quality Co	ontrol						
	Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch
% Solids - SM2540	G 2015												Au
Blank	<0.10	g/100g (%)		0.10	0.10	02/09/24 16:52 MAM							M173203
Duplicate	1.10	%		0.100	0.100	02/09/24 16:52 MAM		1.10			0.00	10	M173203
Duplicate	1.10	g/100g (%)		0.10	0.10	02/09/24 16:52 MAM		1.10			0.00	10	M173203
Blank	<0.10	g/100g (%)		0.10	0.10	02/09/24 16:52 MAM							M173204
Duplicate	0.400	%		0.100	0.100	02/09/24 16:52 MAM		0.400			0.00	10	M173204
Duplicate	0.40	g/100g (%)		0.10	0.10	02/09/24 16:52 MAM		0.40			0.00	10	M173204
Blank	<0.10	g/100g (%)		0.10	0.10	02/11/24 13:18 SR							M173227
Duplicate	13.1	g/100g (%)		0.10	0.10	02/11/24 13:18 SR		13.3			1.44	10	M173227
Duplicate	13.1	%		0.100	0.100	02/11/24 13:18 SR		13.3			1.44	10	M173227
Total Kjeldahl Nitro	ogen as N -	SM4500-NH3 G 2	011										Bry
Initial Cal Check	4.71	mg/L				02/20/24 14:06 KMA	4.56		103	90 - 110			2402227
Low Cal Check	0.22	mg/L				02/20/24 14:06 KMA	0.200		112	70 - 130			2402227
Blank	<0.20	mg/kg wet		0.13	0.20	02/20/24 14:06 KMA							M173598
LCS	4.19	mg/kg wet		0.13	0.20	02/20/24 14:06 KMA	4.00		105	91 - 116			M173598
LCS Dup	4.22	mg/kg wet		0.13	0.20	02/20/24 14:06 KMA	4.00		105	91 - 116	0.738	10	M173598
Matrix Spike	2480	mg/kg dry		75.0	115	02/20/24 14:06 KMA	2310	119	102	88.2 - 119			M173598
Matrix Spike Dup	2490	mg/kg dry		75.0	115	02/20/24 14:06 KMA	2310	119	103	88.2 - 119	0.512	20	M173598
Blank	<0.20	mg/kg wet		0.13	0.20	02/20/24 14:06 KMA							M173599
LCS	4.19	mg/kg wet		0.13	0.20	02/20/24 14:06 KMA	4.00		105	91 - 116			M173599
LCS Dup	4.22	mg/kg wet		0.13	0.20	02/20/24 14:06 KMA	4.00		105	91 - 116	0.738	10	M173599
Matrix Spike	3500	mg/kg dry		80.2	123	02/20/24 14:06 KMA	2470	942	104	88.2 - 119			M173599
Matrix Spike Dup	3470	mg/kg dry		80.2	123	02/20/24 14:06 KMA	2470	942	102	88.2 - 119	1.21	20	M173599

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Sample Preparation Summary										
Sample	Method	Prepared	Lab	Bottle	Initial	Units	Final	Units	Dilution Factor	Batch
H001611-01										
% Solids	SM2540 G 2015	2/9/24 16:52 MAM	Austin	С	10.0	g	10.0	mL	1	M173203
Subcontract	Sub Contract Data Entry	2/24/24 8:07 PMY	Bryan	-	-	-	-	-	-	M173809
Total Kjeldahl Nitrogen as N	SM4500-NH3 G 2011	2/20/24 9:13 CTG	Bryan	В	0.0505	g	25.0	mL	1	M173599
Total Nitrogen	Calculation	2/28/24 15:02 PMY			1.00	g	1.00	mL	1	M174006
H001611-02										
% Solids	SM2540 G 2015	2/9/24 16:52 MAM	Austin	С	10.0	g	10.0	mL	1	M173203
Subcontract	Sub Contract Data Entry	2/24/24 8:07 PMY	Bryan	-	-	-	-	-	-	M173809
Total Kjeldahl Nitrogen as N	SM4500-NH3 G 2011	2/20/24 9:13 CTG	Bryan	В	0.101	g	25.0	mL	1	M173599
Total Nitrogen	Calculation	2/28/24 15:02 PMY			1.00	g	1.00	mL	1	M174006
H001611-03										
% Solids	SM2540 G 2015	2/11/24 13:18 SR	Austin	С	10.0	g	10.0	mL	1	M173227
Subcontract	Sub Contract Data Entry	2/24/24 8:07 PMY	Bryan	-	-	-	-	-	-	M173809
Total Kjeldahl Nitrogen as N	SM4500-NH3 G 2011	2/20/24 9:09 CTG	Bryan	Α	0.0500	g	25.0	mL	1	M173598
Total Nitrogen	Calculation	2/28/24 15:02 PMY			1.00	g	1.00	mL	1	M174006
H001611-04										
% Solids	SM2540 G 2015	2/11/24 13:18 SR	Austin	С	10.0	g	10.0	mL	1	M173227
Subcontract	Sub Contract Data Entry	2/24/24 8:07 PMY	Bryan	-	-	-	-	-	-	M173809
Total Kjeldahl Nitrogen as N	SM4500-NH3 G 2011	2/20/24 9:09 CTG	Bryan	Α	0.102	g	25.0	mL	1	M173598
Total Nitrogen	Calculation	2/28/24 15:02 PMY			1.00	g	1.00	mL	1	M174006
H001611-05										
% Solids	SM2540 G 2015	2/9/24 16:52 MAM	Austin	С	10.0	g	10.0	mL	1	M173203
Subcontract	Sub Contract Data Entry	2/24/24 8:07 PMY	Bryan	-	-	-	-	-	-	M173809
Total Kjeldahl Nitrogen as N	SM4500-NH3 G 2011	2/20/24 9:09 CTG	Bryan	А	0.100	g	25.0	mL	1	M173598
Total Nitrogen	Calculation	2/28/24 15:02 PMY			1.00	g	1.00	mL	1	M174006
H001611-06										
% Solids	SM2540 G 2015	2/9/24 16:52 MAM	Austin	С	10.0	g	10.0	mL	1	M173203
Subcontract	Sub Contract Data Entry	2/24/24 8:07 PMY	Bryan	-	-	-	-	-	-	M173809
Total Kjeldahl Nitrogen as N	SM4500-NH3 G 2011	2/20/24 9:09 CTG	Bryan	А	0.100	g	25.0	mL	1	M173598
Total Nitrogen	Calculation	2/28/24 15:02 PMY			1.00	g	1.00	mL	1	M174006
H001611-07										
% Solids	SM2540 G 2015	2/9/24 16:52 MAM	Austin	С	10.0	g	10.0	mL	1	M173203
Subcontract	Sub Contract Data Entry	2/24/24 8:07 PMY	Bryan	-	-	-	-	-	-	M173809
Total Kjeldahl Nitrogen as N	SM4500-NH3 G 2011	2/20/24 9:09 CTG	Bryan	А	0.100	g	25.0	mL	1	M173598
Total Nitrogen	Calculation	2/28/24 15:02 PMY	-		1.00	g	1.00	mL	1	M174006

Form: C:\ELMNT\FORMAT\ATL 021924 FIN_LS.RPT

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635 Phil Gramm Boulevard Bryan, TX 77807 Phone: (979) 778-3707 Fax: (979) 778-3193



AUSTIN FACILITY 3512 Montopolis Dr. Suite A Austin, TX 78744 Phone: (512) 301-9559 Fax: (512) 301-9552

Analytical Report

HURST CREEK MUD

3/1/24

Report Printed:

H001611

13:59

	Sample Preparation Summary										
Sample	Method	Prepared	Lab	Bottle	Initial	Units	Final	Units	Dilution Factor	Batch	
H001611-08											
% Solids	SM2540 G 2015	2/9/24 16:52 MAM	Austin	С	10.0	g	10.0	mL	1	M173204	
Subcontract	Sub Contract Data Entry	2/24/24 8:07 PMY	Bryan	-	-	-	-	-	-	M173809	
Total Kjeldahl Nitrogen as N	SM4500-NH3 G 2011	2/20/24 9:09 CTG	Bryan	А	0.102	g	25.0	mL	1	M173598	
Total Nitrogen	Calculation	2/28/24 15:02 PMY			1.00	g	1.00	mL	1	M174006	
H001611-09											
% Solids	SM2540 G 2015	2/9/24 16:52 MAM	Austin	С	10.0	g	10.0	mL	1	M173204	
Subcontract	Sub Contract Data Entry	2/24/24 8:07 PMY	Bryan	-	-	-	-	-	-	M173809	
Total Kjeldahl Nitrogen as N	SM4500-NH3 G 2011	2/20/24 9:09 CTG	Bryan	А	0.102	g	25.0	mL	1	M173598	
Total Nitrogen	Calculation	2/28/24 15:02 PMY			1.00	g	1.00	mL	1	M174006	

AQUA-TECH Ch	nain-of-	Custody and	Analysis I	Request		A COLORIDA	Αqι	a-Tech lat	ooratories, Inc.	C-O-C #
Client /		HURST CREEK						Austin	Bryan	H001611
Project Name:	Hu	rst Creek MUD WW				and the second	A	2 Montopolis Dr. ustin, TX 78744	635 Phil Gramm Blvd. Bryan, TX 77807	Page 1 of 2
Name Kurt Pendleton		DW Drinkin ≌ NP Non-Po	g Water otable Water	Reagent tracki		TCEQ LAB ID:		512.301.9559 ast results meet all a	979.778.3707 ccreditation/certification	
to the City AUSTIN		S Solid		available up request.		T104704371			ss stated otherwise.	rte_ATL COC 012723.rpt
Description Address 102 TROPHY DRIVE Description City AUSTIN End State TX Zip 7873 O Phone (512) 261-6281 261-6281	38	U U	y Maintained					Sample	Custody	· · ·
email			ly Transfer Unbrok ted Temperature	en		Relin- auished Bla	ke B	latchier	Sampler Date 02/07	
Analyses Requested: "A" prefix	c indicates Aust			ed by [SUB].		(print & DO		Ter		Pm Custody Sealed
Name [NEL] = NELAP accredited parameter	e format: Analy	sis-Matrix-Technology-M [CNR] = No NELAP a	lethod.			Receiv-	100 S	nue allar	Client Date 02/17/	24 X Iced / Refrig
[SUB] = NELAP accredited subcontracted param		[INF] = Informational	only (not NELAC cer	tified)		ed (print & sign)	$\frac{1}{2}$	ourseller		
By relinquishing the samples listed below to Aqua-Te method that is within ATL's NELAP fields of accreditation	on (FoA), Analyte	requiring an accredited me	thod that is not within A	TI 's FoA wil! be subco	ontracted to		\sim		- / < /	pm
a NELAP lab that is accredited for that method. Clien analyzed by a compendial method. If a specific method	d is required, the	t of the subcontract lab's de client will note the method in cumented by ATL or the sub	n the "Analysis Requeste	requiring accreditation ed" column. The client	on will be It approves	quished Key	א ות	ssellor		4 🖾 Iced / Refrig
A current list of ATL's NE		editation and other method		est.		sign)	n the second sec	\sim		
Comments:			- LA	B RECEIPT -	Y003	Receiv- ed FAY	nen	re Buth	Client Date 25	21 Ced / Refrig
			Temperature - 0	. ,		(print & sign)	hn	Non	ATL Field Time	4 15 CM/CTU
			Preservation C			Relin- quished	y ·	Katherine Bo	ta client Date 02/08/	Ced / Refrig
			Post-Preserva			(print & sign)	bh	an	Time 16:00) Sealed
· · · ·				per ID: 0812		Receiv-		Kathe	erine Borta Date 02/08/	24 X Cond Good
			ko_A	COC MULTI 043020.r	rpt	(print & sign)	Joh	Ma	X _Lab Time 16:00	CM / CTU
Field Sample ID	Date	Start Time	En Date	d Time	C	Composite Type	Sample Matrix		ed box indicates bottle arrived in lab) Type - Preservative)	Lab ID
Hurst Creek WWTP Soil 0-6 Inches Site 1	02/05/2	4 (:25	02/05/24	1:30		Comp	S	A SOIL 1LI	5	H001611-01
A TS SL Grav SM2540 G [NEL] N Total SL PKG TAMU [CNR]		. (1:2) Probe TAMU CN FAMU CALC ENTRY [C				lehlich 3 CNR [SUB] Mehlich 3 CNR [SUB]				
P TAMU Plant Available Mehlich 3 CNR [SUB] TKN SLAUTO SM4500 NH3 G [CNR]	Solids, I	Dry Weight N Total Calc		SUB pH SL TAM	IU (1:2) C	NR [SUB]				
Hurst Creek WWTP Soil 6-18 Inchos			62/0/10/	Y Billing Ship to	Sub-Cont		s	MA SOIL 1L	>	
	02/05/		02/05/24		 	Comp	3			H001611-02
A TS SL Grav SM2540 G (NEL] N Total SL PKG TAMU (CNR) P TAMU Plant Available Mehlich 3 CNR [SUB] TKN SL AUTO SM4500 NH3 G [CNR]	N Total Solids, i	L (1:2) Probe TAMU CN TAMU CALC ENTRY [C Dry Weight			tractable I	lehlich 3 CNR [SUB] Mehlich 3 CNR [SUB] NR [SUB]	I			
Hurst Creek WWTP Soil 18-30 Inches		N Total Calc	07411-11	1120	1	Comp		SOIL 1LI	o	
Site 1	02/05/2		02/05/24		 	Comp	S			H001611-03
A TS SL Grav SM2540 G [NEL] N Total SL PKG TAMU [CNR] P TAMU Plant Available Mehlich 3 CNR [SUB] TKN SL AUTO SM4500 NH3 G [CNR]	N Total Solids,	_ (1:2) Probe TAMU CN TAMU CALC ENTRY [C Dry Weight N Total Calc		K TAMU Plant Av NO3N TAMU Ex SUB pH SL TAM	tractable I	lehlich 3 CNR [SUB] Mehlich 3 CNR [SUB] NR [SUB]				

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Client : HURST CREEK	In-of-Custo	ody and Ar	nalysis Rec	quest					c-o-c # H001611 Page 2 of 2
Field Sample ID	Sta Date	rt Time	End Date	l Time	Composite Type	Sample Matrix		iner (Checked box indicates bottle arrived in la Volume - Type - Preservative)	b) Lab ID
Hurst Creek WWTP Soil 0-6 Inches Site 2	02/09/24	1210	02/05/24	4 1:13	Comp	s	M A	SOIL 1LP	H001611-04
A TS SL Grav SM2540 G [NEL] N Total SL PKG TAMU [CNR] P TAMU Plant Available Mehlich 3 CNR [SUB] TKN SL AUTO SM4500 NH3 G [CNR]	Cond SL (1:2 N Total TAML Solids, Dry W Y Billing N To		[SUB] IR]	NO3N TAMU EX SUB pH SL TAM	vailable Mehlich 3 CNR [SUB] tractable Mehlich 3 CNR [SUB] trul (1:2) CNR [SUB] Sub-Contract Lab			-	
Hurst Creek WWTP Soil 6-18 Inches Site 2	02/05/24	1:13	02/09/24	1:15	Comp	s	C A	SOIL 1LP	H001611-0
A TS SL Grav SM2540 G [NEL] N Total SL PKG TAMU [CNR] P TAMU Plant Available Mehlich 3 CNR [SUB] TKN SL AUTO SM4500 NH3 G [CNR]	Cond SL (1:2 N Total TAML Solids, Dry W Y Billing N To		[SUB] IR]	NO3N TAMU EX SUB pH SL TAM	vailable Mehlich 3 CNR [SUB] tractable Mehlich 3 CNR [SUB] /IU (1:2) CNR [SUB] Sub-Contract Lab				
Hurst Creek WWTP Soil 18-30 Inches Site 2	02/05/24	1:15	02/05/24	1:19	Comp	s	Ø A	SOIL 1LP	H001611-0
A TS SL Grav SM2540 G [NEL] N Total SL PKG TAMU [CNR] P TAMU Plant Available Mehlich 3 CNR [SUB] TKN SL AUTO SM4500 NH3 G [CNR]				NO3N TAMU E SUB pH SL TAM	wailable Mehlich 3 CNR [SUB ktractable Mehlich 3 CNR [SUI /U (1:2) CNR [SUB] Sub-Contract Lab			,	
Hurst Creek WWTP Soil 0-6 Inches Site 3	02105/24	12:37p	02/05/29	9 12:42	Comp	S	Ľ A	SOIL 1LP	H001611-0
A TS SL Grav SM2540 G [NEL] N Total SL PKG TAMU [CNR] P TAMU Plant Available Mehlich 3 CNR [SUB] TKN SL AUTO SM4500 NH3 G [CNR]		Probe TAMU CNR CALC ENTRY [CN eight	[SUB]	K TAMU Plant A NO3N TAMU E SUB pH SL TAM	vailable Mehlich 3 CNR [SUB ktractable Mehlich 3 CNR [SUB ktractable Mehlich 3 CNR [SUB MU (1:2) CNR [SUB] Sub-Contract Lab				
Hurst Creek WWTP Soil 6-18 Inches Site 3	02:105/24	12:40	02/05/24	12:51	Comp	s	₽ A	SOIL 1LP	H001611-0
A TS SL Grav SM2540 G [NEL] N Total SL PKG TAMU [CNR] P TAMU Plant Available Mehlich 3 CNR [SUB] TKN SL AUTO SM4500 NH3 G [CNR]	N Total TAML			NO3N TAMU E SUB pH SL TAM	Available Mehlich 3 CNR [SUB ktractable Mehlich 3 CNR [SUB MU (1:2) CNR [SUB] Sub-Contract Lab			/	
Hurst Creek WWTP Soil 18-30 Inches Site 3	02/05/24	12:52	02/05/24		Comp	s	MA	SOIL 1LP	H001611-0
A TS SL Grav SM2540 G [NEL] N Total SL PKG TAMU [CNR] P TAMU Plant Available Mehlich 3 CNR [SUB] TKN SL AUTO SM4500 NH3 G [CNR]	Cond SL (1:2 N Total TAML) Probe TAMU CNR J CALC ENTRY [CN /eight	R [SUB]	K TAMU Plant A NO3N TAMU E SUB pH SL TAM	Available Mehlich 3 CNR [SUB Available Mehlich 3 CNR [SUB AUU (1:2) CNR [SUB] 9 Sub-Contract Lab] B]			
								· · · · ·	*



Brazos County Laboratory Number: 650497 Customer Sample ID: H001611-01

Soil Analysis Report

Soil, Water and Forage Testing Laboratory Department of Soil and Crop Sciences 2478 TAMU College Station, TX 77843-2478 (979)321-5960

Visit our website: http://soiltesting.tamu.edu

Sample received on: 2/13/2024 Printed on: 2/21/2024 Area Represented: 80 sqft

Nitrate-N 6 (-) ppm** IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Analysis	Results	CL*	Units	ExLow VLow Low Mod High VHigh Excess.
Nitrate-N 6 (-) ppm** IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	pH	8.4	(6.2)	-	Mod. Alkaline
Phosphorus 6 (50) ppm IIIIIIIIIII 3.5 lbs P2O5/1000 Potassium 407 (175) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Conductivity	126	(-)	umho/cm	None CL* Fertilizer Recommende
Potassium 407 (175) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Nitrate-N	6	(-)	ppm**	0.9 lbs N/1000sqft
Calcium 12,034 (180) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Phosphorus	6	(50)	ppm	IIIIIIIIII 3.5 lbs P2O5/1000sq
Magnesium 628 (50) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Potassium	407	(175)	ppm	0 lbs K20/1000sqft
Sulfur 126 (13) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Calcium	12,034	(180)	ppm	0 lbs Ca/1000sqft
Sodium 183 (-) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Magnesium	628	(50)	ppm	0 lbs Mg/1000sgft
Iron Zinc Manganese Copper	Sulfur	126	(13)	ppm	0 lbs S/1000sqft
Iron Zinc Angenese Copper	Sodium	183	(-)	ppm	
Manganese Copper	Iron				
Copper	Zinc				
Copper	Manganese				
Boron	Copper				
	Boron				
Limestone Requirement 0.00 lbs/1000sqft	Limestone Requirement				0.00 lbs/1000saft

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

Online fertilizer calculators to determine appropriate fertilizers and application rates. http://soiltesting.tamu.edu

Methods: pH and conductivity/ 2:1; nitrate-N/Cd-red.; P, K, Ca, Mg, Na, and S/Mehlich 3 by ICP; Fe, Zn, Mn, and Cu/DTPA by ICP; and B/hot water by ICP.



Brazos County Laboratory Number: 650498 Customer Sample ID: H001611-02

Soil Analysis Report

Soil, Water and Forage Testing Laboratory Department of Soil and Crop Sciences 2478 TAMU College Station, TX 77843-2478 (979)321-5960

Visit our website: http://soiltesting.tamu.edu

Sample received on: 2/13/2024 Printed on: 2/21/2024 Area Represented: 80 sqft

Sodium 144	(6.2) (-) (50) (175) (180) (50) (13) (-)	- umho/cm ppm** ppm ppm ppm ppm ppm	
Nitrate-N4Phosphorus0Potassium220Calcium30,371Magnesium445Sulfur315Sodium144	(-) (50) (175) (180) (50) (13)	ppm** ppm ppm ppm ppm	1 1 bs N/1000sqft 3.9 lbs P205/1000sqft 1 0 lbs K20/1000sqft 1 0 lbs K20/1000sqft 1 0 lbs Ca/1000sqft 1 0 lbs Ca/1000sqft 1 0 lbs Ca/1000sqft 1 0 lbs Mg/1000sqft
Phosphorus0Potassium220Calcium30,371Magnesium445Sulfur315Sodium144	(50) (175) (180) (50) (13)	ppm ppm ppm ppm	3.9 Ibs P2O5/1000sqft IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
Potassium220Calcium30,371Magnesium445Sulfur315Sodium144	(175) (180) (50) (13)	ppm ppm ppm	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
Calcium 30,371 Magnesium 445 Sulfur 315 Sodium 144	(180) (50) (13)	ppm ppm	0 bs Ca/1000sqft 0 bs Mg/1000sqft
Magnesium445Sulfur315Sodium144	(50) (13)	ppm	0 lbs Mg/1000sgft
Sulfur 315 Sodium 144	(13)		0 0
		ppm	0 by S/1000s aft
	(-)		
Iron	(-)	ppm	
Zinc			
Manganese			
Copper			
Boron			
Limestone Requirement			0.00 lbs/1000sqft

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

Online fertilizer calculators to determine appropriate fertilizers and application rates. http://soiltesting.tamu.edu

Methods: pH and conductivity/ 2:1; nitrate-N/Cd-red.; P, K, Ca, Mg, Na, and S/Mehlich 3 by ICP; Fe, Zn, Mn, and Cu/DTPA by ICP; and B/hot water by ICP.



Brazos County Laboratory Number: 650499 Customer Sample ID: H001611-03

Soil Analysis Report

Soil, Water and Forage Testing Laboratory Department of Soil and Crop Sciences 2478 TAMU College Station, TX 77843-2478 (979)321-5960

Visit our website: http://soiltesting.tamu.edu

Sample received on: 2/13/2024 Printed on: 2/21/2024 Area Represented: 80 sqft

Analysis	Results	CL*	Units	ExLow	VLow	Low	Mod	High	VHigh	Excess.
рН	8.6	(6.2)	-	Mod. Alk	aline					
Conductivity	107	(-)	umho/cm	None			CL	*		Fertilizer Recommended
Nitrate-N	1	(-)	ppm**							1.1 lbs N/1000sqft
Phosphorus	0	(50)	ppm							3.9 lbs P2O5/1000sqft
Potassium	72	(175)	ppm							2.3 lbs K20/1000sqft
Calcium	32,969	(180)	ppm						11	0 lbs Ca/1000sqft
Magnesium	380	(50)	ppm							0 lbs Mg/1000sgft
Sulfur	336	(13)	ppm							0 lbs S/1000sqft
Sodium	122	(-)	ppm			11				
Iron										
Zinc							1			
Manganese							i			
Copper										
Boron										
Limestone Requirement										0.00 lbs/1000sqft
•										

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

Online fertilizer calculators to determine appropriate fertilizers and application rates. http://soiltesting.tamu.edu

Methods: pH and conductivity/ 2:1; nitrate-N/Cd-red.; P, K, Ca, Mg, Na, and S/Mehlich 3 by ICP; Fe, Zn, Mn, and Cu/DTPA by ICP; and B/hot water by ICP.



Brazos County Laboratory Number: 650500 Customer Sample ID: H001611-04

Soil Analysis Report

Soil, Water and Forage Testing Laboratory Department of Soil and Crop Sciences 2478 TAMU College Station, TX 77843-2478 (979)321-5960

Visit our website: http://soiltesting.tamu.edu

Sample received on: 2/13/2024 Printed on: 2/21/2024 Area Represented: 80 sqft

Conductivity 58 (-) umho/cm None CL* Fertilizer Recommended Nitrate-N 2 (-) ppm** IIIIIIII 1.1 lbs N/1000sqft 3.9 lbs P205/1000sqft Phosphorus 0 (50) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Analysis	Results	CL*	Units	ExLow	VLow	Low	Mod	High	VHigh	Excess.
Nitrate-N 2 (-) ppm** IIIIIIIII 1.1 lbs N/1000sqft Phosphorus 0 (50) ppm 3.9 lbs P205/1000sqft 3.9 lbs P205/1000sqft Potassium 108 (175) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	рН	8.5	(6.2)	-	Mod. Alk	aline					
Phosphorus 0 (50) ppm 3.9 lbs P205/1000sqft Potassium 108 (175) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Conductivity	58	(-)	umho/cm	None			CI	_*		Fertilizer Recommended
Potassium 108 (175) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Nitrate-N	2	(-)	ppm**							1.1 Ibs N/1000sqft
Calcium 27,754 (180) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Phosphorus	0	(50)	ppm							3.9 Ibs P2O5/1000sqft
Magnesium 304 (50) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Potassium	108	(175)	ppm				I			1.5 lbs K20/1000sqft
Sulfur 255 (13) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Calcium	27,754	(180)	ppm					(111111111)	11	0 lbs Ca/1000sqft
Sodium 34 (-) ppm IIIIII Iron Zinc Manganese Copper Boron	Magnesium	304	(50)	ppm							0 lbs Mg/1000sgft
Sodium 34 (-) ppm IIIIII Iron Iron IIIIII Iron Zinc Iron Iron Manganese Iron Iron Copper Iron Iron Boron Iron Iron	Sulfur	255	(13)	ppm					hunni		0 lbs S/1000sqft
Iron Zinc Andrew Constant of the second seco	Sodium	34	(-)	ppm	111111						
Manganese Copper Boron	Iron										
Copper Boron	Zinc										
Boron	Manganese										
	Copper										
Limestone Requirement 0.00 lbs/1000saft	Boron										
	Limestone Requirement										0.00 lbs/1000sqft

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

Online fertilizer calculators to determine appropriate fertilizers and application rates. http://soiltesting.tamu.edu

Methods: pH and conductivity/ 2:1; nitrate-N/Cd-red.; P, K, Ca, Mg, Na, and S/Mehlich 3 by ICP; Fe, Zn, Mn, and Cu/DTPA by ICP; and B/hot water by ICP.



Brazos County Laboratory Number: 650501 Customer Sample ID: H001611-05

Soil Analysis Report

Soil, Water and Forage Testing Laboratory Department of Soil and Crop Sciences 2478 TAMU College Station, TX 77843-2478 (979)321-5960

Visit our website: http://soiltesting.tamu.edu

Sample received on: 2/13/2024 Printed on: 2/21/2024 Area Represented: 80 sqft

Nitrate-N 1 (-) ppm** IIIIIII 1.1 lbs N/1000sqft Phosphorus 0 (50) ppm 3.9 lbs P205/1000sqft 3.9 lbs P205/1000sqft Potassium 217 (175) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Analysis	Results	CL*	Units	ExLow	VLow	Low	Mod	High	VHigh	Excess.
Nitrate-N 1 (-) ppm** IIIIII 1.1 lbs N/1000sqft Phosphorus 0 (50) ppm 3.9 lbs P2O5/1000sqft 3.9 lbs P2O5/1000sqft Potassium 217 (175) ppm IIIIIIII 0 lbs K20/1000sqft 0 lbs K20/1000sqft Calcium 23,636 (180) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	рН	8.3	(6.2)	-	Mod. All	kaline					
Phosphorus 0 (50) ppm 3.9 lbs P2O5/1000sqft Potassium 217 (175) ppm 0 0 lbs K20/1000sqft Calcium 23,636 (180) ppm 0 0 lbs K20/1000sqft Magnesium 370 (50) ppm 0 0 lbs Ca/1000sqft Sulfur 232 (13) ppm 0 0 lbs Mg/1000sqft Sodium 143 (-) ppm 0 0 lbs S/1000sqft Iron Zinc	Conductivity	88	(-)	umho/cm	None			CL			Fertilizer Recommended
Potassium 217 (175) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Nitrate-N	1	(-)	ppm**							1.1 lbs N/1000sqft
Calcium 23,636 (180) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Phosphorus	0	(50)	ppm							3.9 lbs P2O5/1000sqft
Magnesium 370 (50) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Potassium	217	(175)	ppm				(11111111)	11		0 lbs K20/1000sqft
Sulfur 232 (13) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Calcium	23,636	(180)	ppm					111111111	11	0 lbs Ca/1000sqft
Sodium 143 (-) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Magnesium	370	(50)	ppm	111111111						0 lbs Mg/1000sgft
Iron Zinc Manganese Copper Boron	Sulfur	232	(13)	ppm							0 lbs S/1000sqft
Zinc Anganese Copper Boron Contract Con	Sodium	143	(-)	ppm		100000					
Manganese Copper Boron	Iron										
Copper Boron	Zinc							1			
Copper Boron	Manganese							i			
Boron											
Limestone Requirement											
	Limestone Requirement										0.00 lbs/1000sqft

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

Online fertilizer calculators to determine appropriate fertilizers and application rates. http://soiltesting.tamu.edu

Methods: pH and conductivity/ 2:1; nitrate-N/Cd-red.; P, K, Ca, Mg, Na, and S/Mehlich 3 by ICP; Fe, Zn, Mn, and Cu/DTPA by ICP; and B/hot water by ICP.



Brazos County Laboratory Number: 650502 Customer Sample ID: H001611-06

Soil Analysis Report

Soil, Water and Forage Testing Laboratory Department of Soil and Crop Sciences 2478 TAMU College Station, TX 77843-2478 (979)321-5960

Visit our website: http://soiltesting.tamu.edu

Sample received on: 2/13/2024 Printed on: 2/21/2024 Area Represented: 80 sqft

Nitrate-N 1 (-) ppm** IIIII 1.1 lbs N/1000sqft Phosphorus 2 (50) ppm IIII 3.8 lbs P2O5/1000 Potassium 253 (175) ppm IIIIII 0 lbs K20/1000sq Calcium 14,409 (180) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Inductivity 89 (-) umho/cm None Cu* Fertilizer Recommended irrate-N 1 (-) ppm** IIIII 1.1 lbs N/1000sqft osphorus 2 (50) ppm IIIII 3.8 lbs P2O5/1000sqft tassium 253 (175) ppm IIIIIII 0 lbs K20/1000sqft lcium 14,409 (180) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Analysis	Results	CL*	Units	ExLow	VLow	Low	Mod	High	VHigh	Excess.
Nitrate-N 1 (-) ppm** IIIII 1.1 lbs N/1000sqft Phosphorus 2 (50) ppm IIII 3.8 lbs P2O5/1000 Potassium 253 (175) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	intervention 1 (-) ppm** IIIIII 1.1 lbs N/1000sqft osphorus 2 (50) ppm IIII 3.8 lbs P2O5/1000sqft tassium 253 (175) ppm IIIIIII 0 lbs K20/1000sqft lcium 14,409 (180) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	ρΗ	8.3	(6.2)	-	Mod. All	kaline					
Phosphorus 2 (50) ppm IIII 3.8 lbs P2O5/1000 Potassium 253 (175) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	osphorus 2 (50) ppm IIII 3.8 lbs P2O5/1000sqft tassium 253 (175) ppm IIIII 0 lbs K20/1000sqft lcium 14,409 (180) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Conductivity	89	(-)	umho/cm	None			CL			Fertilizer Recommended
Potassium 253 (175) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	tassium 253 (175) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Nitrate-N	1	(-)	ppm**							1.1 lbs N/1000sqft
Calcium 14,409 (180) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Icium 14,409 (180) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Phosphorus	2	(50)	ppm	1111						3.8 lbs P2O5/1000sqft
Magnesium 449 (50) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	ingnesium 449 (50) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Potassium	253	(175)	ppm				(11111111))			0 lbs K20/1000sqft
Sulfur 171 (13) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Ifur 171 (13) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Calcium	14,409	(180)	ppm					111111111	II	0 lbs Ca/1000sqft
Sodium 165 (-) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	dium 165 (-) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Vagnesium	449	(50)	ppm					111111111	I I	0 lbs Mg/1000sgft
Iron Zinc Manganese Copper	n nic nic nic nic nic nic nic nic nic ni	Sulfur	171	(13)	ppm	11111111			(1111111)	11111111		0 lbs S/1000sqft
Zinc Manganese Copper	nc inganese pper inc inganese	Sodium	165	(-)	ppm							
Manganese Copper	inganese pper for the second s	ron										
Copper	ron	Zinc										
	ron	Vanganese							i			
Boron		Copper							1			
	nestone Requirement 0.00 lbs/1000sqft	Boron										
Limestone Requirement 0.00 lbs/1000sqft		Limestone Requirement										0.00 lbs/1000sqft

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

Online fertilizer calculators to determine appropriate fertilizers and application rates. http://soiltesting.tamu.edu

Methods: pH and conductivity/ 2:1; nitrate-N/Cd-red.; P, K, Ca, Mg, Na, and S/Mehlich 3 by ICP; Fe, Zn, Mn, and Cu/DTPA by ICP; and B/hot water by ICP.



Brazos County Laboratory Number: 650503 Customer Sample ID: H001611-07

Soil Analysis Report

Soil, Water and Forage Testing Laboratory Department of Soil and Crop Sciences 2478 TAMU College Station, TX 77843-2478 (979)321-5960

Visit our website: http://soiltesting.tamu.edu

Sample received on: 2/13/2024 Printed on: 2/21/2024 Area Represented: 21 sqft

рН		CL*	Units	ExLow	VLow	Low	Mod	High	VHigh	Excess.
	8.5	(6.2)	-	Mod. Alka	line					
Conductivity	65	(-)	umho/cm	None			CL			Fertilizer Recommended
Nitrate-N	4	(-)	ppm**							1 lbs N/1000sqft
Phosphorus	0	(50)	ppm				1			3.9 lbs P2O5/1000sqft
Potassium	234	(175)	ppm					III		0 lbs K20/1000sqft
Calcium	19,053	(180)	ppm					111111111	1	0 lbs Ca/1000sqft
Magnesium	488	(50)	ppm					11111111	I	0 lbs Mg/1000sgft
Sulfur	186	(13)	ppm							0 lbs S/1000sqft
Sodium	90	(-)	ppm							
Iron							1			
Zinc							1			
Manganese										
Copper										
Boron										
Limestone Requirement										0.00 lbs/1000sqft

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

Online fertilizer calculators to determine appropriate fertilizers and application rates. http://soiltesting.tamu.edu

Methods: pH and conductivity/ 2:1; nitrate-N/Cd-red.; P, K, Ca, Mg, Na, and S/Mehlich 3 by ICP; Fe, Zn, Mn, and Cu/DTPA by ICP; and B/hot water by ICP.



Brazos County Laboratory Number: 650504 Customer Sample ID: H001611-08

Soil Analysis Report

Soil, Water and Forage Testing Laboratory Department of Soil and Crop Sciences 2478 TAMU College Station, TX 77843-2478 (979)321-5960

Visit our website: http://soiltesting.tamu.edu

Sample received on: 2/13/2024 Printed on: 2/21/2024 Area Represented: 21 sqft

Conductivity 59 (-) umho/cm None cu- Fertilizer Recommended Nitrate-N 2 (-) ppm** IIIIIIIII 1.1 lbs N/1000sqft 3.9 lbs P2O5/1000sqft Phosphorus 0 (50) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Analysis	Results	CL*	Units	ExLow	VLow	Low	Mod	High	VHigh	Excess.
Nitrate-N 2 (-) ppm** IIIIIIIII 1.1 lbs N/1000sqft Phosphorus 0 (50) ppm 3.9 lbs P2O5/1000sqft 3.9 lbs P2O5/1000sqft Potassium 99 (175) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	рН	8.6	(6.2)	-	Mod. Alka	aline					
Phosphorus 0 (50) ppm 3.9 lbs P2O5/1000sqft Potassium 99 (175) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Conductivity	59	(-)	umho/cm	None			CL			Fertilizer Recommended
Potassium 99 (175) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Nitrate-N	2	(-)	ppm**							1.1 lbs N/1000sqft
Calcium 31,452 (180) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Phosphorus	0	(50)	ppm							3.9 lbs P2O5/1000sqft
Magnesium 300 (50) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Potassium	99	(175)	ppm							1.7 lbs K20/1000sqft
Sulfur 296 (13) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Calcium	31,452	(180)	ppm					111111111	11	0 lbs Ca/1000sqft
Sodium 65 (-) ppm IIIIIIIIIII Iron Zinc Manganese Copper Boron	Magnesium	300	(50)	ppm							0 lbs Mg/1000sgft
Iron Zinc Manganese Copper Boron	Sulfur	296	(13)	ppm							0 lbs S/1000sqft
Iron Zinc Angenese Copper Solution Solu	Sodium	65	(-)	ppm		III					
Manganese Copper Boron	Iron										
Copper Boron	Zinc							1			
Boron	Manganese										
Boron	Copper										
Limestone Requirement 0.00 lbs/1000soft	Boron										
	Limestone Requirement										0.00 lbs/1000sqft

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

Online fertilizer calculators to determine appropriate fertilizers and application rates. http://soiltesting.tamu.edu

Methods: pH and conductivity/ 2:1; nitrate-N/Cd-red.; P, K, Ca, Mg, Na, and S/Mehlich 3 by ICP; Fe, Zn, Mn, and Cu/DTPA by ICP; and B/hot water by ICP.



Brazos County Laboratory Number: 650505 Customer Sample ID: H001611-09

Soil Analysis Report

Soil, Water and Forage Testing Laboratory Department of Soil and Crop Sciences 2478 TAMU College Station, TX 77843-2478 (979)321-5960

Visit our website: http://soiltesting.tamu.edu

Sample received on: 2/13/2024 Printed on: 2/21/2024 Area Represented: 21 sqft

Conductivity 60 (-) umho/cm None cu- Fertilizer Recommended Nitrate-N 1 (-) ppm** IIIIIII 1.1 lbs N/1000sqft Phosphorus 0 (50) ppm 3.9 lbs P2O5/1000sqft 3.9 lbs P2O5/1000sqft Potassium 65 (175) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Analysis	Results	CL*	Units	ExLow	VLow	Low	Mod	High	VHigh	Excess.
Nitrate-N 1 (-) ppm** IIIIIII 1.1 lbs N/1000sqft Phosphorus 0 (50) ppm 3.9 lbs P205/1000sqft 3.9 lbs P205/1000sqft Potassium 65 (175) ppm IIIIIIIII 0 lbs Ca/1000sqft Calcium 32,469 (180) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	рН	8.7	(6.2)	-	Mod. All	caline					
Phosphorus 0 (50) ppm 3.9 lbs P2O5/1000sqft Potassium 65 (175) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Conductivity	60	(-)	umho/cm	None			CL			Fertilizer Recommended
Potassium 65 (175) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Nitrate-N	1	(-)	ppm**							1.1 lbs N/1000sqft
Calcium 32,469 (180) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Phosphorus	0	(50)	ppm				i			3.9 Ibs P2O5/1000sqft
Magnesium 276 (50) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Potassium	65	(175)	ppm			11				2.5 lbs K20/1000sqft
Sulfur 304 (13) ppm IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Calcium	32,469	(180)	ppm				mmi	111111111	11	0 lbs Ca/1000sqft
Sodium 58 (-) ppm IIIIIIIIIII Iron Image: Comparison of the second of the	Magnesium	276	(50)	ppm							0 lbs Mg/1000sgft
ron Zinc Manganese Copper Boron	Sulfur	304	(13)	ppm					11111111		0 lbs S/1000sqft
Zinc Manganese Copper Solorian	Sodium	58	(-)	ppm		II					
Manganese Copper Boron	Iron							ł			
Copper Boron	Zinc										
Boron	Manganese							į			
	Copper							i			
Limestone Requirement 0.00 lbs/1000sgft	Boron										
	Limestone Requirement										0.00 lbs/1000sqft

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

Online fertilizer calculators to determine appropriate fertilizers and application rates. http://soiltesting.tamu.edu

Methods: pH and conductivity/ 2:1; nitrate-N/Cd-red.; P, K, Ca, Mg, Na, and S/Mehlich 3 by ICP; Fe, Zn, Mn, and Cu/DTPA by ICP; and B/hot water by ICP.

A AQUA-TECH	TECH Chain-of-Custody and Analysis Request	ch laboratoi
All analyses must cu	All analyses must be performed by a TNI approved method certified by the TCEQ. Contact ATL's sample custodian via voice and email if your methods do not meet this criteria.	3512 Montopolis Dr Sute A 635 Phil Gramm Bivd. Austin, TX 78744 Bryan, TX 77807 Doct 4 25 0
P TAMU - Soil Lab		979.778.3707
0 2610 F&B Road	юЩ ЮЩ	TX239 Tequirements unless stated otherwise 011921
	OM	Sample Custody
5 Phone: (979) 845-4816		Rein- Rein- Ausher (huhCey Girnh I sampler Date J-13-Ji
Comments:		Cher In
		Raceiv- ed (pmit & Date Lead / Ramit sign)
Please use Samp	Please use Sample ID as PO# and email reports to reporting@aqua-techlabs.com.	Relin- quished (print 8 sign)
Line Cooler ID	Lines below document condition at receipt in lab (shipped to) listed above. Temp Read (C) Corrected Temp (C) Thermometer ID <u>Please hold</u>	Received a contract of the con
NAL .	A/A coolers for	6
HVN	Pick-up.	Time Time
Page	10 MINO	Received and Bale 21/12/24 Cond Good South (print & J. U. C. M. C.
Sample ID Sampled / Matrix	rix Analysis Request	(ATL indicates cooler number in parentheses for each container - only required if more than one cooler Lab ID listed above.)
001 01611-01	Mehtich 3 - TAMU P Plant Available NO3N Extractable K Plant Available	() H001611-01 [A] - SOIL 1LP
1010124 13.30	ixtract	
_1	5	
12 1001611-02	MU	() H001611-02 [A] - SOIL 1LP
0 2/05/24 13:35		
192	pH Conductivity (1:2)	
4001611-03	Mehlich 3 - TAMU	() H001611-03 [A] - SOIL 1LP
Z 2/05/24 13:39	P Plant Available NO3N Extractable K Plant Available	
3 01	pH Conductivity (1:2)	
100-1611-04		() H001611-04 [A] - SOIL 1LP
E12/05/24 13:13	P Plant Available NO3N Extractable K Plant Available	
lio 59		
	pH Conductivity (1:2)	

LABORATONIES INC	Cnain-or-Cust	Chain-of-Custody and Analysis Request	ţ.,		c-o-c# 904 - H001611
SHIPPED TO: TAMU	TAMU - Soil Lab				Page 2 of 2
Sample ID Sampled / Matrix		Analysis Request		(ATL indicates cooler number in parentheses for each container - only required if more than one cooler listed above.)	Lab ID
H001611-05 02/05/24 13:15 Soil	P Plant Available	Mehlich 3 - TAMU NO3N Extractable K Plan TAMU - 1:2 Soil Extract Conductivity (1:2)	K Plant Available	() H001611-05 [A] - SOIL 1LP	
H001611-06 02/05/24 13:19 Soil	P Plant Available	Mehilch 3 - TAMU NO3N Extractable K Plan TAMU - 1:2 Soil Extract Conductivity (1:2)	K Plant Available	() H001611-06 [A] - SOIL 1LP	
H001611-07 02/05/24 12:42 Soil	P Plant Available	Mehiich 3 - TAMU NO3N Extractable K Plan TAMU - 1:2 Soil Extract Conductivity (1:2)	K Plant Available	() H001611-07 [A] - SOIL 1LP	
H001611-08 2/05/24 12:51 bab oil	NO3N Extractable	Mehilch 3 - TAMU P Plant Available K Plan TAMU - 1:2 Soil Extract Conductivity (1:2)	K Plant Available	() H001611-08 [A] - SOIL 1LP	
001611-09 01 2005/24 13:03 001 301	P Plant Available	Mehlich 3 - TAMU NO3N Extractable K Plant TAMU - 1:2 Soil Extract Conductivity (1:2)	K Plant Available	() H001611-09 [A] - SOIL 1LP	

ATTACHMENT 12

WWTP 2 Year Effluent Data

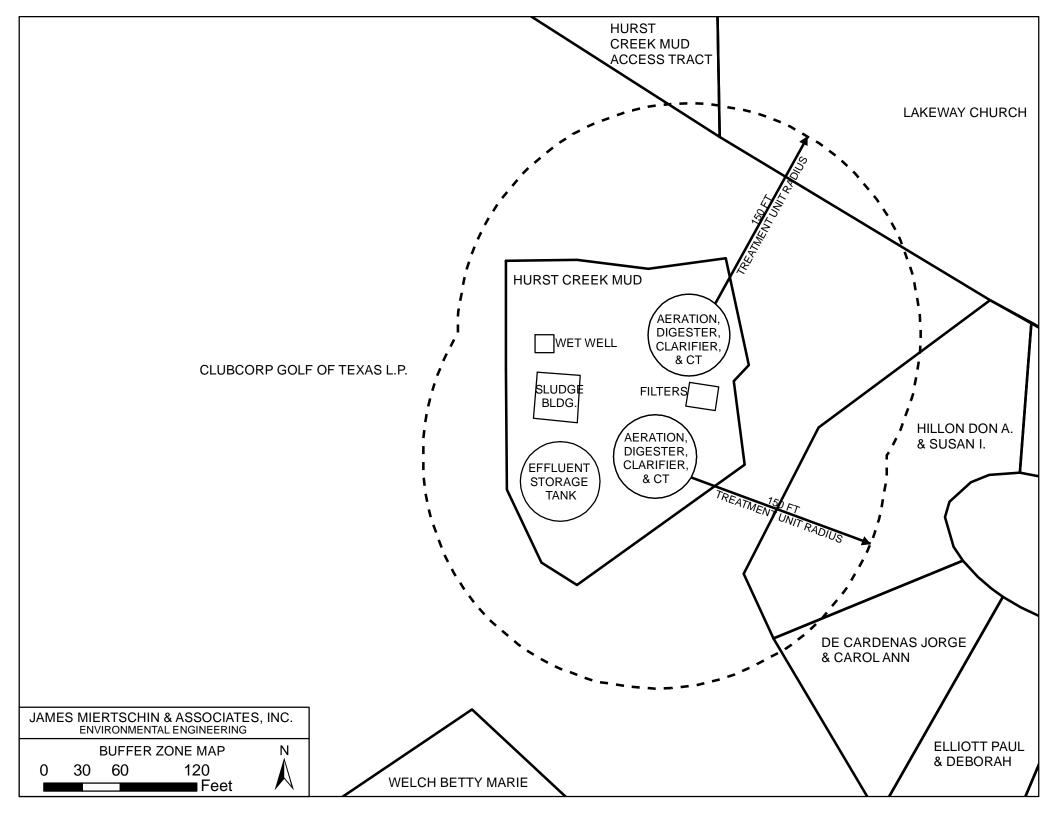
		30 Day AVG.				
	30 Day AVG.	Effluent	Effluent	Effluent	Chlorine	Effluent
	Flow	BOD	TSS	Phos.	Residual	Turbidity
Date	MGD	mg/L	mg/L	mg/L	mg/L	NTU
4/2022	0.1727	2.25	1.75	1.021	6.9	0.89
5/2022	0.1815	2.25	1.00	0.783	6.0	1.07
6/2022	0.1801	2.20	1.00	1.092	4.1	1.04
7/2022	0.2405	1.25	1.00	0.708	4.5	1.29
8/2022	0.2368	1.33	1.00	1.136	5.6	1.32
9/2022	0.2459	1.56	1.25	1.378	5.3	1.35
10/2022	0.1745	2.13	1.75	1.543	5.6	1.05
11/2022	0.1895	2.11	1.60	1.075	6.3	0.97
12/2022	0.1943	1.89	1.00	1.408	7.3	0.86
1/2023	0.1811	1.75	1.00	0.897	7.0	0.85
2/2023	0.2073	2.38	1.25	1.288	6.0	1.20
3/2023	0.1649	2.20	1.00	1.456	5.9	1.05
4/2023	0.1895	2.13	1.00	1.105	5.5	1.01
5/2023	0.1784	2.33	1.00	1.377	3.8	1.05
6/2023	0.1755	2.33	1.25	1.550	2.3	0.87
7/2023	0.1682	2.00	1.00	1.370	4.3	0.61
8/2023	0.1786	1.80	1.00	1.325	5.8	0.73
9/2023	0.1826	1.63	1.25	1.189	5.8	0.56
10/2023	0.1782	1.38	1.25	0.877	5.9	0.56
11/2023	0.1700	1.70	1.20	1.084	4.7	0.76
12/2023	0.1758	1.63	1.00	0.863	5.4	0.73
1/2024	0.2905	1.44	1.60	0.803	6.5	0.74
2/2024	0.2236	1.75	1.25	1.175	5.4	0.74
3/2024	0.1726	1.63	1.25	1.201	6.9	0.81
4/2024	0.1858	1.75	1.00	1.226	5.4	0.84
Min.	0.1649	1.25	1.00	0.71	2.30	0.56
Max	0.2905	2.38	1.75	1.55	7.30	1.35
Average	0.1935	1.87	1.19	1.16	5.53	0.92

Two Year Eflluent Data For Permit Renewal

	Single Grab	30 Day AVG.		
	Fecal	Fecal	Effluent	
	Coliform	Coliform	рΗ	
Date	#/100 mL	#/100 mL	0-14	Acres Irrigated
4/2022	1.00	1.00	7	181
5/2022	1.00	1.00	7.3	181
6/2022	6.00	1.50	7.1	181
7/2022	1.00	1.00	7.2	181
8/2022	1.00	1.00	7.4	181
9/2022	1.00	1.00	7.9	181
10/2022	1.00	1.00	7.2	181
11/2022	1.00	1.00	7.1	
12/2022	8.00	1.70	7.3	181
1/2023	30.00	4.63	7.3	181
2/2023	1.00	1.00	7.4	181
3/2023	1.00	1.00	7.5	181
4/2023	8.00	1.88	7.5	181
5/2023	2.00	1.11	7.6	181
6/2023	16.00	3.44	7.7	181
7/2023	1.00	1.00	7.4	181
8/2023	1.00	1.00	7.4	181
9/2023	1.00	1.00	7.7	181
10/2023	1.00	1.00	7.4	181
11/2023	3.00	1.20	7	181
12/2023	3.00	1.25	7.3	181
1/2024	1.00	1.00	7.7	181
2/2024	1.00	1.00	7.3	
3/2024	1.00	1.00	7.5	181
4/2024	1.00	1.00	7.4	181
Min.	1.00	1.00	7.00	181
Max	30.00	4.63	7.90	181
Average	3.72	1.35	7.38	181

ATTACHMENT 13

Buffer Zone



ATTACHMENT 14

Correspondence related to changing permitted flow as

minor amendment

ATTACHMENT 14: Correspondence related to changing permitted flow as a minor amendment

Aaron Laughlin

From: Sent:	Firoj Vahora <firoj.vahora@tceq.texas.gov> Friday, August 11, 2023 7:37 AM</firoj.vahora@tceq.texas.gov>
То:	Aaron Laughlin
Cc:	Curtis Steger; Earl Wood; Firoj Vahora
Subject:	FW: Hurst Creek MUD Permit WQ0012215-001
Attachments:	HCMUD TLAP 5-20-2014 pages referencing flow rate.pdf

Good Morning Aaron:

Pursuant to your additional information, the senior staff attorney has decided to make changes thru minor amendment.

Please let me know, if you have any additional questions in this regard.

Thanks,

Firoj Vahora, Team Leader Municipal Permits Team (MC 148)



Wastewater Permitting Section Water Quality Division, TCEQ email: <u>firoj.vahora@tceq.texas.gov</u> phone: 512-239-4540 ☐ Please consider whether it is necessary to print this e-mail

How is our Customer Service? Fill out our online customer satisfactory survey at www.tceq.texas.gov/customersurvey

From: Aaron Laughlin <alaughlin@stegerbizzell.com>
Sent: Thursday, August 10, 2023 10:26 AM
To: Firoj Vahora <firoj.vahora@tceq.texas.gov>
Cc: Curtis Steger <curtis.steger@stegerbizzell.com>; Earl Wood <earlwood@hurstcreekmud.org>
Subject: RE: Hurst Creek MUD Permit WQ0012215-001

Firoj,

In response to the question below: Are there any discussions documented in the file from when the permit was issued that demonstrates that something else was intended?

The answer is yes. I have attached two pages from the permit application in 2014 that clearly identify the intent of the permit application was to obtain a 0.5 MGD irrigation daily application rate for the permit, not 0.4 MGD. Can you please

take these two pages from the permit application back to the Environmental Law Division and ask them to reconsider their opinion on the requirement of a major permit amendment?

Thanks, Aaron

From: Firoj Vahora <<u>firoj.vahora@tceq.texas.gov</u>>
Sent: Thursday, August 10, 2023 9:45 AM
To: Aaron Laughlin <<u>alaughlin@stegerbizzell.com</u>>
Cc: Curtis Steger <<u>curtis.steger@stegerbizzell.com</u>>; Earl Wood <<u>earlwood@hurstcreekmud.org</u>>; Firoj Vahora
<<u>firoj.vahora@tceq.texas.gov</u>>
Subject: RE: Hurst Creek MUD Permit WQ0012215-001
Importance: High

Hello Aaron:

I have received a response from our Environmental Law Division. Here is the response:

Special Condition 21 says they can take up to .1 MGD from another facility, but it doesn't say that this is additional capacity above the .4 MDG allowed on page 2 of the permit. It seems like they will need a major amendment to increase to .5 MGD. Are there any discussions documented in the file from when the permit was issued that demonstrates that something else was intended? Based on the limited information provided, I think they need a major amendment to increase the disposal rate to .5 MGD.

I agree that reducing the acreage can be a minor amendment.

Please let me know, if you have any additional questions in this regard.

Thanks,



Firoj Vahora, Team Leader Municipal Permits Team (MC 148) Wastewater Permitting Section Water Quality Division, TCEQ email: firoj.vahora@tceq.texas.gov phone: 512-239-4540 □ Please consider whether it is necessary to print this e-mail

How is our Customer Service? Fill out our online customer satisfactory survey at <u>www.tceq.texas.gov/customersurvey</u>

From: Aaron Laughlin <<u>alaughlin@stegerbizzell.com</u>> Sent: Tuesday, August 8, 2023 10:45 AM To: Firoj Vahora <<u>firoj.vahora@tceq.texas.gov</u>>

Cc: Curtis Steger <<u>curtis.steger@stegerbizzell.com</u>>; Earl Wood <<u>earlwood@hurstcreekmud.org</u>> Subject: RE: Hurst Creek MUD Permit WQ0012215-001

Good morning Firoj,

Just following up on this email. Are you able to verify that we can update the Hurst Creek MUD permit as listed below without a major permit amendment?

Thanks, Aaron

From: Aaron Laughlin
Sent: Wednesday, August 2, 2023 4:57 PM
To: Firoj Vahora <<u>firoj.vahora@tceq.texas.gov</u>>
Cc: Curtis Steger <<u>curtis.steger@stegerbizzell.com</u>>; Earl Wood <<u>earlwood@hurstcreekmud.org</u>>
Subject: Hurst Creek MUD Permit WQ0012215-001

Firoj,

Thanks for taking the time to set up a conference call with us earlier today. We have two points of order that we would like to address prior to Hurst Creek MUD's upcoming permit renewal application submittal. Specifically, we would like to confirm that both of these items can be addressed without requiring a major amendment to the permit.

- We request the option to decrease the total land application irrigation area down from 181 acres to 175 acres. The attached exhibit shows the 6-acre portion of the 181 acres that is proposed to be excluded from the irrigation area. We are not proposing any changes to the irrigation storage area, application rate, or permitted flow rate as a result of this change. As previously discussed in your attached email on May 30, we would like to confirm that this modification can be done as a renewal with minor amendment application.
- 2. We request to clarify that the daily land application disposal rate in the permit is 0.5 MGD. The intent of the previous application from 2014 was that Hurst Creek MUD has a 0.4 MGD plant that they discharge to the irrigation storage pond. Separate from this, Travis County WCID 17 is allowed to send up to 0.1 MGD from their WWTP to the same irrigation storage pond for disposal by Hurst Creek MUD under special provision 21 of this permit. In total, Hurst Creek MUD needs to be able to dispose of 0.5 MGD to handle flows from their plant and the WCID 17 plant. Please see the attached cover letter from James Miertschin to Dan Roark that was submitted with the previous application in 2014 that summarizes this intent. We would like to request that this clarification be made to the permit without requiring a major amendment to the permit.

Please let us know at your convenience if these requests can be handled without requiring a major permit amendment. We intend to move forward right away with a permit renewal/minor amendment application when we receive this confirmation.

Thanks,

Aaron J. Laughlin, PE Senior Engineer Steger Bizzell Texas Registered Engineering Firm F-181 1978 South Austin Avenue Georgetown, TX 78626 PH: 512-930-9412

JAMES MIERTSCHIN & ASSOCIATES, INC.

ENVIRONMENTAL ENGINEERING P.O. Box 162305 AUSTIN, TEXAS 78716-2305 (512) 327-2708

MEMO

TO:	Dan Roark
FROM:	James Miertschin, PE
DATE:	20 May 2014
SUBJECT:	Final Draft Permit Renewal Application Package
	Hurst Creek MUD TLAP No. 0012215001

Enclosed is a final draft permit renewal application package for the Hurst Creek TLAP permit. I believe that it is relatively complete, but would like for all of the key people involved to review it for completeness and accuracy. The existing permit has an expiration date of 1 December 2014, and an application to renew is due at the TCEQ by 4 June 2014 (180 days prior to expiration).

As a starting point, recall the key sizing parameters described in the existing permit:

- Effluent volume 0.4 MGD from the treatment system
- Effluent volume to be irrigated 0.5 MGD
- Storage pond volume of 138 acre-feet
- Irrigation of 181 acres of golf course land
- Irrigation application rate 4.5 acre-feet/acre/year
- Effluent limitations 5 mg/L BOD5, 10 mg/L TSS, 2 mg/L TP, pH 6-9, chlorine 1 mg/L

Our objectives for the permit renewal are to continue with all existing provisions of the permit.

We still need a few items to complete the application, as identified below:

- Administrative Report, pg 14 of 18, Item 10 we are assuming that Wilson Smith, Board President, will sign the application
- Technical Report 1.0, pg 9 of 44, Item 14 we are assuming Dan Roark will certify laboratory submittals
- Application Fee will need fee of \$1215.00 when submit to TCEQ

We will prepare the final permit application and submit to the TCEQ after we receive the requested information and any review comments.

DOMESTIC WORKSHEET 3.0 LAND DISPOSAL OF EFFLUENT

THE FOLLOWING IS FOR ALL PERMIT APPLICATIONS, RENEWAL, NEW AND AMENDMENTS

1. TYPE OF DISPOSAL SYSTEM (Instructions, Page 55)

Surface Application	Subsurface Application
Evaporation	Evapotranspiration beds
✓ Irrigation	Subsurface soils absorption
Other (describe below in detail)	🗌 Subsurface area drip dispersal system

NOTE: All applicant's authorized or proposing subsurface disposal <u>MUST</u> complete and submit Worksheet 7.0.

2. LAND APPLICATION AREA (Instructions, Page 55)

Effluent Application in GPD	Irrigation Acreage in Acres	Describe land use & indicate type of crop (alfalfa or wheat, Bermuda grass, park, golf course, pastureland, etc.)	Public Access Y/N
500,000	181	Golf Course	Ν

3. STORAGE AND EVAPORATION PONDS (Instructions, Page 55)

Pond Number	Surface Area (acres)	Storage volume (acre-feet)	Dimensions	Liner Type
1	9.0	138	812' x 412' x 43'	Synthetic

Check if the liner certification completed by a Texas licensed professional engineer is attached.

4. FLOOD AND RUNOFF PROTECTION (Instructions, Page 55)

Is the existing/proposed application site within the 100-year frequency flood level? \checkmark Yes \Box No

Source: FEMA 100-Year Flood Mapping

Candice Calhoun

From: Sent:	Aaron Laughlin <alaughlin@stegerbizzell.com> Thursday, August 1, 2024 11:43 AM</alaughlin@stegerbizzell.com>
То:	Candice Calhoun
Cc:	Earl Wood
Subject:	Permit Application WQ0012215-001 Response to Comments
Attachments:	TCEQ Full Response to Comments WQ0012215001.pdf
Follow Up Flag: Flag Status:	Follow up Completed

Ms. Calhoun,

I am mailing you an original and two copies of this response to comments submittal for Hurst Creek MUD WWTP WQ0012215-001, but wanted to also send you an electronic copy of our full submittal.

Please let me know if you have any questions related to this response.

Thanks,

Aaron J. Laughlin, PE Senior Engineer Steger Bizzell Texas Registered Engineering Firm F-181 1978 South Austin Avenue Georgetown, TX 78626 PH: 512-930-9412 August 1, 2024

Ms. Candice Calhoun TCEQ - MC148 P.O. Box 13087 Austin, Texas 78711-3087

Re: Application to Renew and Amend Permit No: WQ0012215-001 Hurst Creek Municipal Utility District (CN600642748) Hurst Creek MUD WWTP (RN101614063)

Dear Ms. Calhoun,

This letter is in response to your correspondence back to us listing a total of two administrative review comments for the Hurst Creek MUD WWTP permit application. A copy of the letter you sent to us is included with this correspondence. The following items are responses (in bold) to the items requested (in italics):

STEGER

1. Administrative Report 1.0 Section 9, Item E – The Owner of the effluent disposal site listed differs from the owner listed on the lease agreement. Please provide an updated lease, to match section 9, item E, or provide an updated section of the application to match the lease agreement.

Hurst Creek MUD's original waste disposal contract agreement was with Lakeway Golf Clubs, Inc. in August, 1997. In April, 1999, a general warranty deed transferred ownership of this land to Clubcorp Golf of Texas, L.P (DBA The Clubs of Lakeway). An amendment to the contract between Hurst Creek MUD and Lakeway Golf Clubs Inc. in August, 2000 conveyed the waste disposal contract agreement to Clubcorp Golf of Texas, LP. All relevant contract and lease agreements are enclosed with this correspondence.

2. Review of Notice of Receipt of Application and Intent to Obtain a Water Quality Permit (NORI).

There are no apparent errors in the draft NORI text.

ADDRESS	PHONE	WEB
1978 S. AUSTIN AVENUE GEORGETOWN, TX 78626	512.930.9412	STEGERBIZZELL.COM
	SERVICES	
TEXAS REGISTERED ENGINEERING FIRM F-181	>> ENGINEERS >> PLANN	ERS >> SURVEYORS

Ms. Candice Calhoun August 1, 2024 Page 2

If you should have any questions with regard to this response to comments, please feel free to contact me by email at <u>alaughlin@stegerbizzell.com</u>.

Sincerely,

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Aaron Laughlin, P.E.

cc: Earl Wood, Hurst Creek MUD (electronic only)



Jon Niermann, *Chairman* Bobby Janecka, *Commissioner* Catarina R. Gonzales, *Commissioner* Kelly Keel, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 24, 2024

Mr. Earl Wood General Manager Hurst Creek Municipal Utility District 102 Trophy Drive The Hills, Texas 78738

RE: Application to Renew and Amend Permit No.: WQ0012215001 Applicant Name: Hurst Creek Municipal Utility District (CN600642748); 0 (0) Site Name: Hurst Creek MUD WWTP (RN101614063) Type of Application: Renewal with changes

VIA EMAIL

Dear Mr. Wood:

We have received the application for the above referenced permit, and it is currently under review. Your attention to the following item(s) are requested before we can declare the application administratively complete. Please submit responses to the following items via email.

1. Administrative Report 1.0 -

Section 9, Item E – The Owner of effluent disposal site listed differs from the owner listed on the lease agreement. Please provide an updated lease, to match section 9, item E, or provide an updated section of the application to match the lease agreement.

2. The following is a portion of the NORI which contains information relevant to your application. Please read it carefully and indicate if it contains any errors or omissions. The complete notice will be sent to you once the application is declared administratively complete.

P.O. Box 13087 • Austin, Texas 78711-3087 • 512-239-1000 • tceq.texas.gov

Mr. Earl Wood Page 2 July 24, 2024 Permit No. WQ0012215001

APPLICATION. Hurst Creek Municipal Utility District, 102 Trophy Drive, The Hills, Texas 78738, has applied to the Texas Commission on Environmental Quality (TCEQ) to amend and renew Texas Land Application Permit (TLAP) No. WQ0012215001 to authorize changing the daily average flow from 400,000 gallons per day to 500,000 gallons per day. The domestic wastewater treatment facility and disposal site are located at 2401 Lakeway Bourlevard, near the city of The Hills, in Travis County, Texas 78738. TCEQ received this application on July 18, 2024. The permit application will be available for viewing and copying at Hurst Creek Municipal Utility District, 102 Trophy Drive, The Hills, in Travis County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications. This

link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.983055,30.356944&level=18

Further information may also be obtained from Hurst Creek Municipal Utility District at the address stated above or by calling Mr. Earl Wood, General Manager, at 512-261-6281.

Please submit the complete response, addressed to my attention by August 7, 2024. If you should have any questions, please do not hesitate to contact me by phone at (512) 239-4312 or by email at <u>candice.calhoun@tccq.texas.gov</u>

Sincerely,

Candice Calhoun Applications Review and Processing Team (MC148) Water Quality Division Texas Commission of Environmental Quality

cgc

Enclosure(s)

cc: Mr. Aaron Laughlin, P.E., Project Manager, Steger Bizzell, 1978 South Austin Avenue, Georgetown, Texas 78626

AMENDED WASTE DISPOSAL CONTRACT BETWEEN HURST CREEK MUNICIPAL UTILITY DISTRICT AND LAKEWAY GOLF CLUBS, INC.

THE STATE OF TEXAS § COUNTY OF TRAVIS §

This agreement (hereafter, the "Agreement") is entered into as of this 30^{-4} day of August, 1997, by and between Hurst Creek Municipal Utility District, a body politic and corporate and a governmental agency of the State of Texas organized under the provisions of Article XVI, Section 59, Texas Constitution and Chapter 54, Texas Water Code (hereafter, the "District"), and Lakeway Golf Clubs, Inc., a Texas corporation (hereafter, the "Company").

<u>RECITALS</u>

The District owns and operates a sewage collection, treatment and waste disposal system. The Company owns and operates an eighteen hole golf course on land located within the boundaries of the District. The District owns Wastewater Discharge Permit No. 12215-001, as amended, from the Texas Natural Resource Conservation Commission which authorizes the District to dispose of treated wastewater from the District's wastewater treatment plant and provides that the District should use treated wastewater for irrigation. The District has requested that the Company agree to divert and use the District's treated wastewater for irrigation of the golf course to the extent the wastewater can be lawfully and practically disposed of by irrigation of the

golf course. The Company has requested that the District provide treated wastewater suitable for irrigation purposes for the golf course. The Company has also requested that the District provide raw water suitable for irrigation purposes for the golf course. The District and the Company recognize that the performance of their respective obligations as provided in this Agreement is of service and economic value to the other. Accordingly, the District and the Company desire to enter into a definitive agreement to specify the terms and conditions under which the District will supply treated wastewater and raw water, or a combination thereof, to the Company and the Company will accept treated wastewater and raw water, or a combination thereof, from the District to irrigate the golf course. The District and the Company are presently parties to that certain "Waste Disposal Contract Between Hurst Creek Municipal Utility District and Lakeway Company," dated October 12, 1987, as amended by that "First Amendment to Waste Disposal Contract between Hurst Creek Municipal Utility District and Lakeway Company," dated effective June 9, 1995 (the "Prior Agreements"), the Company being the successor in interest to Lakeway Company under those agreements. It is the intention of the District and the Company that this Agreement continue, replace and restate entirely the agreement between the parties regarding the matters discussed in the Prior Agreements such that this Agreement shall hereafter constitute the entire agreement between the parties relative to the subject matter hereof, continuing and replacing the Prior Agreements.

AGREEMENT

For and in consideration of the mutual promises, covenants, obligations and benefits of this Agreement, the District and the Company contract and agree as follows:

ARTICLE I

Definitions

Unless otherwise provided or unless the context otherwise requires, the terms defined in this Article shall have the respective meanings specified below:

<u>Collection System</u>: The "Collection System" shall mean the sanitary sewer system of the District including sanitary sewers, manholes, intercepting sewers, sewage pumping and other similar appurtenances, and any improvements, extensions or enlargements thereof, which the District now owns or will acquire and/or construct.

Commission: "Commission" means the Texas Natural Resource Conservation Commission or its successors.

Dam No. 1: "Dam No. 1" means that certain dam and reservoir on Hurst Creek as described on Exhibit "A" and as authorized in Permit No. 4169 issued by the Commission to the District.

<u>Dam No. 2</u>: "Dam No. 2" means that certain dam and reservoir on Hurst Creek as described on Exhibit "A" and as authorized in Permit No. 4169 issued by the Commission to the District.

Dams: "Dams" means Dam No. 1 and Dam No. 2, collectively.

Delivery Points: "Delivery Points" means the points designated on Exhibit "A" and Exhibit "A-1" where the District delivers or has the right to deliver Effluent and Raw Water to the Company pursuant to this Agreement, being, collectively, the Delivery Point (Raw Water), the Delivery Point (Raw Water/Irrigation) and the Delivery Point (Raw Water and/or Effluent) as shown on Exhibit "A".

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Discharge Permits: "Discharge Permits" means all permits, licenses, orders, other authorizations and all regulations applicable to the discharge, disposal, or use of Effluent, and the construction, maintenance or operation of the Wastewater Treatment Facilities heretofore or hereafter issued, adopted or otherwise required by any governmental entity having jurisdiction thereof, including, without limitation, Commission Discharge Permit No. 12215-001, as amended, and U.S. Environmental Protection Agency N.P.D.E.S. Permit No. TX0083615 issued to the District.

<u>District's Engineer</u>: The "District's Engineer" means James Miertschin and Associates, Inc., Austin, Texas, or such other engineer as the District may designate from time to time.

Effluent: "Effluent" means the treated wastewater effluent discharged from the Wastewater Treatment Plant or other treated wastewater effluent substantially the same as that discharged from the District's Wastewater Treatment Plant, including that treated wastewater effluent received by the District pursuant to that certain "Agreement Concerning Wastewater Disposal between the District and Lynn Acres, L.L.C.," dated effective July 7, 1995.

Effluent Transportation and Storage Facilities: "Effluent Transportation and Storage Facilities" means gravity sewer lines, manholes, lift stations, force mains, effluent holding tanks or ponds and other facilities used to convey Effluent from the Wastewater Treatment Plant and Raw Water from the Raw Water Diversion Point to the Delivery Points or to store the Effluent and Raw Water prior to delivery at the Delivery Points, including any future extensions or additions to the District's existing facilities. The facilities currently planned are more particularly described on "A". Irrigated Area: "Irrigated Area" means those tee areas, fairways, greens, and roughs located in The Hills of Lakeway golf course, the Academy of Golf three hole course and The Hills driving range presently being irrigated with the Effluent and Raw Water, said Irrigated Area being located generally within the tract described on Exhibit "B".

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Irrigation System: "Irrigation System" means the pumps, force mains, lines, pipes, irrigation pipe, sprinkler heads, control system and other related appurtenances for conveyance of Effluent and Raw Water from the Delivery Points to, and disposal of Effluent and Raw Water on, the Irrigated Area.

Prior Agreements: "Prior Agreements" means the "Waste Disposal Contract between Hurst Creek Municipal Utility District and Lakeway Company" dated October 12, 1987, and the "First Amendment to Waste Disposal Contract between Hurst Creek Municipal Utility District and Lakeway Company" dated effective June 9, 1995.

<u>Raw Water</u>: "Raw Water" means the water diverted from Lake Travis by the District and other water impounded in the Dams from whatever source, including but not limited to stream flow or run-off.

Raw Water Diversion Point: "Raw Water Diversion Point" means the point located on Hurst Creek downstream of Dam No. 1 where the District intends in the future to divert Raw Water from Hurst Creek for transportation and storage, together with Effluent, in the District's Effluent Transportation and Storage Facilities.

<u>Wastewater Treatment Facilities</u>: "Wastewater Treatment Facilities" means the District's Collection System, Wastewater Treatment Plant and Effluent Transportation and Storage Facilities.

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<u>Wastewater Treatment Plant</u>: "Wastewater Treatment Plant" means the plant and appurtenant facilities necessary to treat wastewater collected through the District's Collection System, including extensions, additions and replacements thereto.

Water Permits: "Water Permits" means all permits, licenses, orders, other authorizations and all regulations applicable to the impounding, storage, diversion and use of Raw Water heretofore or hereafter issued, adopted or otherwise required by any governmental entity having jurisdiction thereof, including, without limitation, Permit No. 4169 issued by the Commission to the District, a copy of which is attached as Exhibit "D".

ARTICLE II

Supply of Effluent for Irrigation Purposes

Section 1. General. The District owns and operates, and reserves from time to time the right to expand and add facilities to, the Wastewater Treatment Facilities and Permit No. 4169. The Company owns and operates, and reserves from time to time the right to expand and add facilities to, the Irrigation System, Dam No. 1 and Dam No. 2.

Section 2. Delivery of Effluent and Raw Water. The District agrees to deliver at the Delivery Points all Effluent from the Wastewater Treatment Facilities, provided that the amount of Effluent delivered does not exceed 650,000 gallons per day ("gpd") based on a 30-day average and 500,000 gpd based on an annual average. The Company agrees to receive all Effluent delivered at the Delivery Points provided that the Company has no obligation to receive any amounts in excess of 650,000 gpd based on a 30-day average and 500,000 gpd based on an annual average, and further provided that the Company's obligation to take any Effluent is subject to the conditions set forth in Section 3 hereof. The District also may, but shall not be required to, deliver Effluent to any other place, person or entity for any lawful purpose, provided that the Company has a first right of refusal of all Effluent. The District shall notify the Company of its desire to deliver Effluent to a party other than the Company and shall not commence such deliveries of Effluent until it has obtained the written agreement of the Company to such delivery. Future additional Delivery Points may be agreed to by the parties. The District shall be the sole owner of, have exclusive dominion and control over, and be solely responsible for the Effluent within its Wastewater Treatment Facilities until the Effluent reaches the Delivery Points.

Subject to the provisions described in this paragraph, the District agrees to (i) deliver Raw Water to Dam No. 2 in sufficient quantities to maintain the reservoir levels in Dams Nos. 1 and 2 at the levels requested by the Company and (ii) provide Raw Water, Effluent or a combination thereof in sufficient quantities to irrigate the Irrigated Area. It is specifically provided, however, that the District's obligations to deliver Raw Water or a combination of Raw Water and Effluent hereunder is subordinate and inferior to the District's obligation and right to provide potable water service for municipal use by the District's residential and commercial customers, both present and future, and within and without the boundaries of the District. The District agrees, however, that, subject to applicable law, the Company's right to receive Raw Water is superior to the right of other District customers, present or future, to purchase Raw Water for recreational uses or to irrigate other golf courses. It is further provided that the District may, in times of emergency or shortage of water supply, production, storage or transportation capability in the District's system, curtail or limit the provision of Raw Water or Raw Water and Effluent under this Agreement as necessary to alleviate said emergency or shortage, or to enable the District to provide water for municipal use to the District's customers as provided herein. As

used in this Agreement, the term "emergency" shall include, but not be limited to, force majeure and the acts of third parties unrelated to the District which cause the District's system to be unable to provide the full amount of Raw Water, Effluent or a combination thereof required to maintain the reservoir levels in Dams Nos. 1 or 2 at the levels requested by the Company, or to irrigate the Irrigated Area.

Section 3. Disposal of Effluent. Provided that the Effluent meets the standards required by the Discharge Permits, the Company agrees to receive and dispose of the Effluent. whether or not combined with Raw Water, delivered by the District at the Delivery Points to the extent the Effluent can be lawfully disposed of by irrigation of the Irrigated Area without causing the golf course to become unacceptable as a first class golf course. Title to, exclusive dominion and control over, and responsibility for the Raw Water, Effluent, or combination thereof, shall pass from the District to the Company upon passage of same through the Delivery Points. Subject to the other provisions of this Agreement, the Company agrees to maximize its use of Effluent. whether or not combined with Raw Water, for irrigation purposes on the Irrigated Area so that the District fully complies with the Discharge Permits. The Company further agrees to adopt such additional and further irrigation and disposal practices as may now or hereafter be required by the Discharge Permits. It is specifically provided, however, that the Company shall not be required to dispose of Effluent by irrigation in violation of law, including any limits on the quantities of Effluent which may be disposed of on the Irrigated Area, or if to do so would render the golf course unusable for its intended purpose.

Section 4. Operation and Maintenance by the District. The District shall operate, maintain and repair and, as necessary, replace at its expense the Wastewater Treatment Facilities. The Company shall immediately notify the District's General Manager if it has reason to believe

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that the Effluent or the wastewater treatment operation does not meet the requirements of the Discharge Permits as to quality or quantity. Upon receipt of such notice, the District shall immediately determine if the Effluent meets the requirements of the Discharge Permits, and, if not, shall expeditiously remedy said failure, or if the Effluent is not produced from the District's Wastewater Treatment Plant, to cause the producer of such Effluent to remedy this failure.

Section 5. Operation and Maintenance by the Company. The Company shall operate, maintain, repair and, as needed, replace the Irrigation System and the Irrigated Area, and, until the District begins operating under the no-discharge phase of the Discharge Permits, Dam No. 1 and Dam No. 2. After the District begins operating under the no-discharge phase of the Discharge Permits, the Company shall have no obligation to the District regarding repair of Dam No. 1 or Dam No. 2. The parties agree to cooperate to maintain the flows of water and the re-circulation of water provided for in Permit No. 4169. The District specifically agrees that the Company may re-circulate water as provided in such permit and that the District will not take any steps to modify or terminate Permit No. 4169 or that would cause such permit to terminate or be modified in a manner inconsistent with the District's obligations under this Agreement including, but not limited to, termination of the District's contract with the Lower Colorado River Authority to impound, divert and use inflows from Hurst Creek; provided, however, that in no event shall the District have any obligation to maintain, repair or replace the Dams. In the event that the TNRCC or other governmental body having jurisdiction over Permit No. 4169 threatens to take or begins action to revoke Permit No. 4169 because of the failure to maintain the Dams, the District shall have the right to request appropriate amendments to such permit after notifying the Company in writing and allowing the Company a reasonable time to make such repairs.

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Section 6. Operation of Irrigation System and Irrigated Area. To the extent obligated herein, the Company agrees to cooperate with the District and to use the Irrigation System and the Irrigated Area to receive sufficient Effluent from the Wastewater Treatment Facilities and apply such Effluent to the Irrigated Area so that the parties are in compliance with the terms and conditions of the Discharge Permits. The Company shall operate the Irrigation System and the Irrigated Area in accordance with the Discharge Permits and Water Permit and shall be responsible for such additional health precautions, if any, including the construction, installation and maintenance of signs, as the Company or any governmental entity with jurisdiction deems appropriate. The Company may at its sole risk, allow others to dispose of the Effluent so long as such is not contrary to law. If requested by the District, any such disposal outside of the Irrigated Area shall be discontinued immediately.

The Company shall operate, maintain or replace the Irrigation System or the Irrigated Area in accordance with the Discharge Permits and generally accepted practices to achieve their specified purpose. If either party fails to comply with its obligations under this Agreement or fails to correct any deficiency in operation within twenty-four (24) hours after notification of such deficiency, the other party shall have the right to request any court, agency or other governmental authority of appropriate jurisdiction to grant any and all remedies which are appropriate to assure conformance to the provisions of this Agreement. The Company shall be liable to the District for all costs actually incurred by the District in pursuing such remedies, including attorneys fees, and for any penalties or fines imposed on District as a result of the Company's failure to comply with the terms hereof. It is specifically provided, however, that nothing herein shall be construed to require the Company to extend its irrigation system or to irrigate any areas other than the Irrigated Area. Should the District desire at a later time to irrigate the areas outside the Irrigated Area and within the boundaries of the golf course, the Company agrees to cooperate to allow the District, at the District's sole expense, to construct and operate an irrigation system to dispose of Effluent (whether or not combined with Raw Water) in such areas. The location of such irrigation facilities and the method of construction and operation of same shall be subject to further mutual agreement by the District and the Company at that time.

Section 7. Regulation and Future Modifications. The parties recognize that the operation of the Wastewater Treatment Facilities and the disposal of the Effluent are subject to regulation by the Commission and other governmental entities. Accordingly, the parties agree that they will cooperate with each other as may be necessary to assure compliance with all terms and conditions of all existing Discharge Permits and the Water Permits. The District and the Company agree to consult and cooperate with each other to assure compliance with the Discharge Permits and Water Permits and to assure that efficient wastewater service may be provided by the District while the golf course continues to be operated as a first class golf course with no adverse impact on its water features.

Section 8: Raw Water Diversion. The Company understands and agrees that the District intends to, and may, construct extensions and improvements to its Effluent Transportation and Storage Facilities and additional Raw Water Diversion facilities. More specifically, the District is in the process of designing and preparing final plans and specifications for an additional Raw Water Diversion facility to be located at the Raw Water Diversion Point so that the District may divert Raw Water, including Raw Water diverted by the District from Lake Travis and passed through the Dams, for transportation to and storage by the District in its Wastewater Transportation and Storage Facilities. The Company hereby consents to such action by the District, including any necessary amendments to the Water Permits, and agrees to grant the District an easement, in form and substance acceptable to the District, authorizing and permitting the District to construct, operate, maintain, repair and replace the facilities necessary to divert Raw Water from the Raw Water Diversion Point and Effluent from the District's Wastewater Treatment Plant to the District's proposed approximately 44 million gallon off-site effluent holding pond authorized to be constructed by the District pursuant to the Discharge Permits, and from said holding pond to the Delivery Point, provided that the Company has received, reviewed and approved the plans and specifications for such facilities and such facilities do not adversely impact the golf course aesthetically or in any other manner not agreed to in writing by the Company.

ARTICLE III

General

Section 1. Connection Fee. The Company shall not be charged any connection fee by the District for the provision of Effluent or Raw Water under this Agreement.

Section 2. Rates for Service. The District shall not be charged any service fee by the Company for the Company's disposing of the Effluent (whether or not combined with Raw Water) for the District. The District may, by appropriate order or orders adopted from time to time by its Board of Directors, charge and collect a reasonable rate for the provision of Raw Water, Effluent or combination thereof, to the Company. Such rate shall be based on the District's operation and maintenance costs of providing same and shall not include capital costs. The initial rate shall be \$0.77 per 1,000 gallons of Raw Water, Effluent, or combination thereof as measured at the Delivery Point (Raw Water/Irrigation) and the Delivery Point (Raw Water and/or Effluent). The Company agrees that the District needs and has the right to vary the rate from time to time. To assure that both parties receive the benefits each anticipated receiving under this Agreement, the parties agree that the District shall (a) endeavor to set future rates pursuant to the methodology evidenced in the attached **Exhibit "C"**, which is the rate study commissioned by the District in 1996 during the negotiation of this Agreement for purposes of estimating the future rates which might result from the use of that methodology and (b) take into consideration, in setting such future rates, the expectations of both the District and the Company when entering into this Agreement that the rates should be based on the operation and maintenance costs of providing Effluent and Raw Water hereunder.

Section 3. Term. Unless terminated by mutual agreement of the parties hereto or their successors and assigns, this Agreement shall continue in force and effect for a period of forty (40) years from the date of its execution and may thereafter be continuously renewed by mutual agreement of the parties.

Section 4. Force Majeure. If either party is rendered unable, wholly or in part, by reason of force majeure to carry out any of its obligations under this Agreement, then the obligations of that party to the extent affected by such force majeure and to the extent that due diligence is being used to resume performance at the earliest practicable time, shall be suspended during the continuance of any inability so caused to the extent provided but for no longer period. Such cause, as far as possible, shall be remedied with all reasonable diligence. The term "force majeure," as used herein, shall include acts of God, strikes, lockouts, or other industrial disturbances, acts of the public enemy, orders of any kind of any governmental entity or any civil or military authority, insurrections, riots, epidemics, landslides, lightning, earthquakes, fires, hurricanes, storms, floods, washouts, droughts, arrests, restraint of government and people, civil disturbances, explosions, breakage or accidents to machinery, pipelines or canals, or any other conditions which are not within the control of such party. It is understood and agreed that the settlement of strikes and lockouts shall be entirely within the discretion of either party hereto, and that the above requirements that any force majeure shall be remedied with all reasonable dispatch shall not require the settlement of strikes and lockouts by acceding to the demand of the opposing party or parties when such settlement is unfavorable to it in the judgment of either party hereto.

<u>Section 5.</u> <u>Modification</u>. This Agreement shall be subject to change or modification only with the mutual written consent of the Company and the District.

Section 6. Captions. The captions appearing at the first of each numbered section or paragraph in this Agreement are inserted and included solely for convenience and shall never be considered or given any effect in construing this Agreement.

Section 7. Severability. The provisions of this Agreement are severable, and if any provision or part of this Agreement or the application thereof to any person or circumstance shall ever be held by any court of competent jurisdiction to be invalid or unconstitutional for any reason, the remainder of this Agreement and the application of such provision or part of this Agreement to other persons or circumstances shall not be affected thereby.

Section 8. Cooperation. Each party hereby agrees that it will take all actions necessary to fully carry out the purposes and intent of this Agreement.

Section 9. Addresses and Notice. Unless otherwise provided in this Agreement, any notice herein provided or permitted to be given, made, or accepted by any party must be in writing and may be given by depositing the same in the United States mail postpaid, registered or certified and addressed to the party to be notified, with return receipt requested, or by delivering the same to an officer of such party, or by prepaid telegram addressed to the party to be notified. Notice deposited in the mail in the manner described above shall be conclusively

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deemed to be effective from and after the expiration of three (3) business days after it is so deposited. Notice given in any other manner shall be effective only if and when received by the party to be notified. For the purposes of notice, the addresses of the parties shall be as follows:

> Hurst Creek Municipal Utility District 102 Trophy Drive Austin, Texas 78738

Lakeway Golf Clubs, Inc. One World of Tennis Square Austin, Texas 78738 Attention: Bob Holzman

The parties shall have the right from time to time and at any time to change their respective addresses and each shall have the right to specify as its address any other address in the State of Texas by at least fifteen (15) business days' written notice to the other parties.

Section 10. Assignability and Notice of Agreement. The rights and obligations hereunder are not assignable by either party unless specifically provided herein. The rights and obligations of the Company shall run with the ownership of the Irrigated Area and Irrigation System and shall bind and accrue to all future owners of the Irrigated Area and the Irrigation System. The rights and obligations of the District hereunder may be assigned to any other governmental entity providing wastewater service to the District or the area served by the District by providing the Company written notice of such assignment, provided that such assignment in no way diminishes the rights of the Company hereunder. Both parties agree to provide a copy of this Agreement to all potential successors and assigns and to have such successor or assign acknowledge and agree to assumption of the rights and obligations hereunder prior to or simultaneously with any conveyance or assignment of rights hereunder. The District and the Company shall execute a "Notice of Agreement and Restrictive Covenant" in a form acceptable to the parties (the "Restriction") which shall have attached a legal description of the Irrigated Area and which reflects both the rights and the obligations of the parties to deliver and receive Effluent and Raw Water hereunder. The parties agree to execute and record from time to time amendments to the Restriction to evidence any changes in this Agreement.

Section 11. Merger. This Agreement, together with such descriptions, terms and conditions as may be included in the exhibits hereto, constitutes the entire agreement between the parties relative to the subject matter hereof. There have been and are no agreements, covenants, representations, or warranties between the parties other than those expressly stated or provided for herein. This Agreement completely amends and restates the Prior Agreements between the parties.

Section 12. Lender Subordination. The Company agrees to obtain from any lender with a lien on or security interest in the Company's Dams or Irrigated Area or other property affected by this Agreement an acknowledgment of the District's rights and obligations hereunder. IN WITNESS WHEREOF, the parties hereto have executed this Agreement in

multiple counterparts, each of which shall be deemed to be an original, as of the date and year first written herein.

HURST CREEK MUNICIPAL UTILITY DISTRICT

President, Board of lors

ATTEST:

Secretary, Board of Directors

[SEAL]

LAKEWAY GOLF CLUBS, INC.

By:

Andrew Crosson Vice President

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FROM : HIRST ITT	ั รห เขต	PHONE NO : 50 EXHIBIT C	17 261 6773	0rt 17 1996	
P		ALERTSCHIN & ASSO ENVIRONMENTAL ENGINE AUSTIN, TEXAS 78716-	TRENUG	27-2708	
TO: FROM: DATE: SUBJECT:	Dan Roark, Gener Hurst Creek MUD James Miertschin 26 March 1996		(his)	Miertschar 3900	

We have recently developed a spreadsheet analysis of extimated costs for irrigation water after completion of westewater system improvements that include construction of an off-channel effluent storage pond. The analysis includes your input on cost factors for pumping and cost for purchase of raw water from Lake Travis.

The irrigation supply system will involve three separate pumping cost factors. First, raw water will be pumped from Lake Travis to the on-channel ponds on Hurst Creek. From there, the raw water will be pumped to the new off-channel storage pond. Effluent will also be pumped from the wastawater treatment plant site to the new offchannel storage pond. For the present analysis, it is assumed that the raw water and effluent can be pumped with the same transmission system. The third pumping step: involves pumping of commingled effluent and raw water from the off-channel storage pond to the golf course imigation system.

Raw water pumping from Lake Travis includes an electrical cost and a cost for raw water. The cost is estimated to be \$0.43 per 1000 gallons, plus a fixed cost of \$160 per month for the electric motor horsepower charge. The pumping cost from the wastewater treatment plant site to the off-channel storage pond is estimated to be \$0,085 per 1000 gallons, plus a fixed cost of \$226 per month. The pumping cost from the off-channel storage pond is estimated to be \$0,085 per 1000 gallons, plus a fixed cost of \$226 per month. The pumping cost from the off-channel storage pond to the golf course irrigation system is estimated to be \$0,024 per 1000 gallons, plus a fixed cost of \$61 per month.

The attached spreadsheet (Table 1) displays the calculations involved in determination of irrigation water supply costs on a year to year basis. A brief description of each column is provided below.

The first column tracks the year to year chronology of the analysis. It has been assumed that the off-channel storage pond and associated improvements will be operationals in., 1997. The next column presents the number of wastewater connections projected for Hurst Creek MUD, information developed based upon recent historical growth trends. Full buildout is assumed to occur by the year 2017. Under the heading of effluent average daily flow, the first column presents projected average daily flow rates based upon a wastewater generation rate of 220 gallons per

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connection-per day. The next column converts the average daily flow rate to an annual rate in 1000 gallons per year.

The next column displays the golf course irrigation water need. A minimum golf course water need of 60.4 million gallons per year was estimated based upon use data for the past three years. However, the minimum need was set équal to the available affluent volume if the effluent volume was greater than 60.4 million gallons per year.

Water pumped from Lake Travis is denoted as raw water. Raw water needs are displayed in two columns. First, the raw water needed for imigation is determined based upon the effluent availability and the minimum golf course imigation need. Next, a column for raw water needed for maintenance is presented, which accounts for water that must be pumped to the calding an shannel golf cource ponds in replace water user is even by even or during the calding an shannel golf cource ponds in

Three columns are presented for raw water costs. The first column displays the cost of pumping raw water from Lake Travis to the on-channel ponds on Hurst Creek. The next column shows the cost of pumping raw water from the on-channel pond to the off-channel storage pond. It is assumed that the raw water can be pumped from the existing wastewater treatment plant site, using the same pumping and transmission system used for treased effluent: Costs to pump the raw water component from the storage gand back to imigation are shown in the third costing. In actuality, the raw water will be commingled with effluent in the off-channel storage pond and pumped back to imigation. The components were separated in the spreadsheet for ease of computation. The cost factors for pumping raw water to the storage pond and then back to imigation did not include the monthly fixed horsepower charge, since that expenditure is included in the subsequent analysis of effluent pumping costs.

Effluent pumping costs are displayed in the next two columns. The first column allows the costs for pumping trasted affluent from the treatment plant to the offchannel storage pond. The next column shows the costs for pumping effluent from the storage pond back to the irrigation system. These costs are based upon the electrical power costs per 1000 gallons and the fixed monthly horsepower charges.

The total costs for inigation supply pumping are presented in two separate columns in terms of dollars per year and dollars per 1000 gallons. The total pumping cost includes the raw water pumping components and the efficient pumping components. The cost per 1000 gallons is based upon the volume of imigation water supply plus the raw water used for maintenance of on-channel pond levels.

The next column presents personnel costs for system operation. The cost is based upon half-time utilization of one full-time employee. System maintenance and repair

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costs are dispayed in the next column, based upon an allocation of 50% and maintenance costs encountered during the past three year period. red in the next column, based upon an allocation of 50% of the repair

The total cost for irrigation supply is presented in the final two columns. The first column displays costs in terms of dollars per year, and includes the pumping costs, personnel costs, and maintanance costs. The last column presents costs on the basis of dollars per 1000 gallons, referencing the total volume of effluent and raw water pumped for irrigation and on-channel pond maintanance.

A second spreadsheet is presented in Table 2 for projection of impation costs with the proposed Lynnwood development online. Lynnwood has an agreement with Hurst Creek MUD to provide up to 100,000 gallons per day of treated effluent to the offchannel effluent storage pond. For the present analysis, the Lynnwood effluent contribution was phased in over a 20-year period, assuming commencement of effluent flow in the year 1998, as shown in the fifth column of the table. The volume of Lynnwood effluent is combined with the volume of Hurst Creek MUD effluent for calculation of tetal effluent availability. All other columns in Table 2 are similar to the analysis in Table 1. The development and phasing of effluent flows from the Lynnwood development are not under the control of Hurst Creek MUD, therefore, the projected sequence is speculative.

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 w water pumping coal from Lake Teering =
 0,430/1000 gal + 100/me

 noing coal from WWTP to pond =
 0.095/1000 gal + 220/me

 noing coal from pand to trigation =
 0.095/1000 gal + 61/me

will include those electricity charges after construction of the District's new effluent *This note is added by the district and Lakeway as of 5/2/97. The parties understand the estimates made above do not contain electricity charges for the District's effluent mps to pump Effluent and Raw Water from the District's new effluent holding pond of the Delivery Points for use in the Irrigation System. Actual rates charged by the District The parties understand that

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JAMES MIERTSCHIN & ASSOCIATES, INC. ENVIRONMENTAL ENGINEERING P.O. Box 162305 . Austin, Texas 78716-2305 . (512) 327-2708 MEMO Dan Roark, General Manager ismes D. TO: **James Miertschin, PE** FROM: 26 July 1999 DATE: **Future Water Supply Needs** SUBJECT:

Hurst Creek MUD has a contract with the LCRA to purchase up to 1600 ac-ft of water per year. This memo presents an evaluation of the adequacy of the total volume of water reserved.

The long-term water use in the District was analyzed using records for raw water pumped, potable water produced, golf course irrigation water, POA irrigation water, and water purchased or sold to Lakeway MUD. Records from 1990 to the present were examined. A trend of increasing water use is evident, attributable to the increasing number of connections within the Hills. The monthly and seasonal fluctuation in use is pronounced, which is probably influenced most heavily by lawn watering.

Data for the year 1998 were examined as most representative of current demands. The average total raw water use for 1998 was 0.70 MGD, which includes potable water use and irrigation water use. The average potable water use for 1998 was 0.52 MGD, after deleting water used for irrigation.

It can be assumed that the average number of residential connections in 1998 was 550. Therefore, it can be calculated that the average demand for potable water per connection was 0.66 gpm.

The ultimate number of connections in the District has been estimated to be 1200 residential connections plus approximately 123 out-of-District connections, for a total of 1323 connections. If the average demand for potable water per connection is assumed to be constant, the future demand at full buildout can be calculated to be 873.2 gpm (1.257 MGD). Converted to an annual volume, the average potable demand is projected to be 1408 ac-ft per year. This total demand can be expected to fluctuate year to year due to climatological conditions. A demand range of plus or minus 10% appears to be reasonable, which would represent a range of 1267 - 1549 ac-ft per year.

The Hills golf course has historically used a combination of treated effluent and raw water supplied by the District for irrigation. For a one-year period spanning 1998 and 1999, for example, the golf course used 116.5 MG (357.5 ac-ft) of water that was purchased from the District. This volume represents an average irrigation application

rate of approximately 2 ft/yr. The effluent available from the District at full buildout is projected to be 0.4 MGD, which equates to a volume of 448 ac-ft per year. The full District effluent volume would enable the golf course to achieve an application rate of approximately 2.5 ft/yr. In addition, the District is obligated to receive 0.1 MGD of treated effluent from the Lynnwood subdivision in the future, which will bring the total treated effluent available to 0.5 MGD, or 560 ac-ft/yr. The golf course will have to apply effluent at an application rate of approximately 3.1 ft/yr at this future flow condition. As shown by the preceding calculations, when the District is at full buildout, golf course irrigation should be able to rely on treated effluent as the sole source of water. Therefore, the evaluation of future District water supply needs based upon potable demand is appropriate.

The results of this analysis indicate that the District's contracted water supply of 1600 ac-ft per year is adequate for future needs.

LCRA PIPELINE CAPACITY = 2.2. MGD

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AFTER RECORDING RETURN TO: ATTN: JIM GARRISON STEWART TITLE P. O. BOX 1806 AUSTIN, TEXAS 78767

After recordation return to

UL-11020151- JG-CO

Glenn B. Callison, Esq. Munsch Hardt Kopf & Harr, P C 4000/Fountain Place 1445 Ross Avenue Dallas, Texas 15202

GENERAL WARRANTY DEED

to be effective as of

Apr11 1, 1999, This General Warrany Deed (this "Deed") is made as of March 30, 1999, by LAKEWAY GOLF CLUBS ACQUISITION, L.L.C., a Texas limited liability company (successor by merger to Lakeway Golf Clubs, Inc., as described on Exhibit "B" attached hereto) (the "Grantor") to CLUBCORP GOLF OF TEXAS, L.P., a Texas limited partnership (the "Grantee")

For and in consideration of the sum of Ten and No/100 Dollars (\$10 00) and other valuable consideration to Grantor paid by the Grantee, the receipt of which are acknowledged, Grantor and Grantee agree as follows

1 Conveyance and Warranty of Title

Grantor GRANTS, SELLS, and CONVEYS to Grantee all of the real property, together with all the rights, expressed or implied in and to the reservation of all oil, gas and other minerals as set out in deeds (the "**Property**") situated in Travis County, Texas more particularly described on <u>Exhibit "A"</u> attached hereto and made a part hereof for all purposes, together with all improvements, structures and fixtures located thereon as well as all of Grantor's rights to appurtenances, easements, rights of way, adjacent streets and alleys, strips and gores,

TO HAVE AND TO HOLD the Property together with all and singular the rights and appurtenances thereto in anywise belonging, to Grantee, its successors and assigns, forever, and Grantor binds itself, its successors and assigns, to WARRANT AND FOREVER DEFEND all and singular the Property to Grantee, its successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof

Academy of Golf Adstin/ Texas

Warranty Deed

	,
EXECUTED as of the date f	irst shove written
	ISC BDOAD MUTCH
\sim	GRANTOR:
	LAKEWAY GOLF CLUBS ACQUISITION, L.L.C., a Texas limited liability company, successor by merger to Lakeway Golf Clubs, Inc
	By Mary Course Mary Cowser, Senior Vice President
	\Diamond
GRANTEE'S ADDRESS	\sim
3030 LBJ Freeway, Suite 700 Dallas, Texas 75234 Attn Ms Mary Cowser	5)
AFTER RECORDING RETURN ATTN: JIM GARRISON STEWART TITLE P. O. BOX 1806 AUSTIN, TEXAS 78767	RO:
	\overline{O}
Warranty Deed	Academy of Solf Acistic, Texas
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NU STATE OF COUNTY ØF

On this day of March, 1999, before me personally appeared Mary Cowser, Senior Vice President of Lakeway Golf Clubs Acquisition, L L C, a Texas limited liability company, successor by merger to Lakeway Golf Clubs, inc., who is personally known to me, this day appeared before me personally and in my presence did acknowledge that he did sign, seal and deliver the foregoing instrument of his own free will and accord, for the purposes therein named and expressed

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal at March 21, 1999, the day and year first above written

Notary Public, State of AU
$\langle (2) \rangle$
My Commission Expires
[Stamped Notary Seal]
KIM MUNCAN Notary Public, State of New York No 41 4960923 Qualified in Queens County WO Commission Expires Jan 2, 2000
P V2372N95NTITLENTEXASNACAD-DED WPD 3 TDB kg rm 3/24/99
Warranty Deed Azademy of Golf Adstin; Texas

EXHIBIT "A" (Legal Description)

A DESCRIPTION OF 50.63 ACRES OF LAND OUT OF THE C.E.P.I. & M. CO. SURVEY NO. 67 AND THE H. HOFFMEISTER SURVEY NO. 469 IN TRAVIS COUNTY, TEXAS, BEING ALL OF GOLF COURSE LOTS 768 AND 777, THE HILLS OF LAKEWAY PHASE ONE, A SUBDIVISION RECORDED IN BOOK 79, RAGE 324 OF THE TRAVIS COUNTY, TEXAS PLAT RECORDS, ALL OF LOT 1, WORLD OF TENNIS SECTION ONE, A SUBDIVISION RECORDED IN BOOK 81, PAGE 54 OF SAID PLAT RECORDS, BEING THAT SAME TRACT OF LAND AS DESCRIBED IN A DEED FROM THE FEDERAL DEPOSIT INSURANCE CORPORATION TO HILLWOOD PROPERTY COMPANY AS EXHIBIT A3, AND RECORDED IN VOLUME 12364, PAGE 1915 OF SAID DEED RECORDS, SAID 50.63 ACRE TRACT OF LAND, AS SHOWN ON SURVEY RESOURCES, INC. DRAWING NO. C077-249502-07, BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS.

BEGINNING at a 1/2-inch iron rod found in the west line of The Hills Drive, a 60-foot wide private street right-of-way as shown on said plat recorded in Book 79, Page 324 of said Plat Records, being the most northerly corner of said Golf Course Lot 768 and the most easterly corner of Lot 50, St. Andrews Ranned Unit Development, a subdivision of record in Book 87, Page 157A-157C of said Plat Records, and being the most northerly corner of the tract described herein;

THENCE with the west line of said. The Hills Drive, being an east line of said Golf Course Lot 768 and an east line hereof, S-12, 57, 38° E, a distance of 125.58 feet to a 1/2 inch iron rod found for an easterly comer of said Golf Course Lot 768 and the most northerly comer of Lot 709 of said. The Hills of Lakeway (hase One;

THENCE leaving said The Hills Drive, with a southerly line of said Golf Course Lot 768 and the northerly lines of Lots 709 and 708 of said The Hills of Lakeway Phase One, S 59° 44' 25° W, a distance of 404.13 feet to a 1/2 inch won rod found for the most westerly corner of said Lot 708 and an intenor corner of said Golf Course Lot 768 and of the tract described herein.

THENCE with the westerly lines of Lots 708 through 705, inclusive, of said The Hills of Lakeway Phase One, being easterly lines of said Golf Course Lot 768, the following three (3) courses and distances:

- 1 S 42° 05' 09" E, a distance of 259 84 text to a 1/2-inch iron rod found,
- 2. S 27° 35' 02° E, a distance of 106_84 feet to a 1/2-inch iron rod found, and
- 3 S 47° 27' 50° E, a distance of 222 85 feet to a 1/2 inch rod found in the west line of Club Estates Parkway, a 60-foot wide private street right-of-way as shown on said plat of The Hills of Lakeway Phase One, being the most southerly corner of seid Lot 705 and an easterly corner of said Golf Course Lot 768 and of the tract described herein;

THENCE with the said west line of Club Estates Parkway, being an east-line of said Golf Course.

- 1 S 00° 59' 54° W, a distance of 44 85 feet to a 1/2-inch from rod found at a nontangent point of curvature to the right,
- with the arc of said curve a distance of 99.53 feet, having a control angle of 14" 18' 24", radius of 398.59 feet and a chord which bears S 08" 57" 03" W, a distance of 99.27 feet to a 1/2-inch iron rod found for the techination of said curve,

Page i

EXHIBIT "A" (Legal Description) Academy of Golf, Austin, Texas S 16" 06' 03" W, a distance of 198.50 feet to a 1/2-inch iron rod found at a nontangent point of curvature to the left.

4. with the arc of said curve a distance of 295.29 feet, having a central angle of 34° 37' 41°, radius of 488.58 feet and a chord which bears S 01° 14' 17° E, a distance of 290.81 feet to a 1/2-inch iron rod found for the termination of said curve.

S 18" 34' 13" E, a distance of 543.52 feet to a 1/2-inch rod found at a point of open-tangent curvature to the right, and

with the arc of said curve a distance of 409.64 feet, having a central angle of 40°.43°, 07°, radius of 505.99 feet and chord which bears 5 04° 37° 47° W, a distance of 398 54 feet to a 1/2-inch iron rod found at a point of non-tangent combound curvature, being at the point where said Club Estates Parkway branches into two (2) 50-foot wide private street rights-of-way.

THENCE with the northerly line of the north branch of said Club Estates Parkway, being the southerly line of said Golf Course Lot 768 the following five (5) courses and distances.

- with the arc of a curve to the right a distance of 112,19 feet, having a central angle of 64.16 49", radius of 100.00, and chord which bears \$ 59" 58' 47" W. a distance of 106 40 feet to a 1/2-inch iron rod found for the termination of said curve.
- N 87 52 13" W, a distance of 57 86 feet to a 1/2-inch iron rod found to a nontangent point of curveture to the right.
- 3. with the arc of said curve a distance of 327 65 feet, having a central angle of 41° 03' 12°, radius of 457.28 feet, and chord which bears N 67° 20' 13° W, a distance of 320.69 feet to 5 1/2 inch iron rod found for the termination of said curve.
- N 46" 48' 13" W, a distance of 247,81 feet to a 1/2-inch iron rod found for a nontangent point of curvature to the jeft, and
- 5. with the arc of said curve, a distance of \$3.86 feet, having a central angle of 07° 19' 06°, radius of 343.36 feet, and chord which bears N 50° 27' 43° W, a distance of 43.83 feet to a 1/2-inch rori rad found for a point of non-tangent reverse curvature to the right;

THENCE with the arc of said curve a distance of 21.67 feet, having a central angle of 82° 46' 26°, radius of 15.00 feet, and chord which bears N 12° 43' 44° W, a distance of 19.83 feet to a 1/2-inch iron rod found at a non-tangent plane of reverse curvature to the left, being in the east line of Tournament Way, a 60-foot wide private street right-of-way as shown on said plat of The Hills of Lakeway Phase One, being a southwesterly corner of said Golf Course Lot 768;

THENCE with the cest line of said Tournament Way and the west lips of said Golf Course Lot 768, the following two (2) courses and distances:

 with the arc of said curve to the left a distance of 447.03 fast, having a central angle of 45° 56° 02°, radius of 557.60 feet, and chord which beers N 05° 41° 02° E, a distance of 435.15 feet to a 1/2-inch learned found for the termination of said curve, and

3.

N 17° 16' 25° W, a distance of 139 75 feet to a 1/2-inch iron rod found at the point where the west line of said Golf Course Lot 788 leaves the east line of said Tournament Way, same being the most southerly corner of Academy Place Section One-B, a subdivision recorded in Book 83, Page 8 of said Plat Records,

THENCE continuing with the west line of said Golf Course Lot 768, being the east line of said Academy Place Section One-8, the following two (2) courses and distances:

N 17" 19' 06" W, a distance of 149 94 feet to a 1/2-inch iron found for an angle "goint, and

N 21" 18' 12° W, a distance of 318 64 feet to a 1/2-inch iron rod found for the most fidtherly corner of said Academy Place Section One-B, being the most section one a subdivision recorded in _-Book. 81, Page 206 of said Plat Records.

THENCE leaving the west line of said Golf Course Lot 768, with the northerly line of said Lot 8 and the northerly line of bot 9A of Academy Place Section One-A, a subdivision recorded in Book 81, Page 361 of said Plat, Records, N 78° 22' 11° W, a distance of 158.11 feet to a 1/2-inch iron rod lound-for the northwest corner of said Lot 9A, being the northeast corner of Lot 10A of said Academy Place Section One-A.

THENCE with the remaining northerity line of said Academy Place Section One-A and a portion of the northerity line of Lot, 22 of said Academy Place Section One, the following two (2) courses and distances

- 1 S 58° 49' 22° W. a distance of 216 44 feet to a 1/2-inch iron rod found for an angle point, and
- S 75° 34' 07° W, a distance of 551 29 feet to a 1/2-inch iron rod found for an angle point in the northerly line of sind Lot 22.

THENCE with the remaining northeriv line of said-Lot 22 and the northerly line of Lot 23 of said Academy Place Section One, S 50° 50° 54° W, a distance of 125.93 feet to a 1/2 inch iron rod found for the northwest comer of said Academy Place Section One.

THENCE with the westerly line of said Academy Place Section One, S 14° 32' 23" E a distance of 160.53 feet to a 1/2-inch iron rod found for the southwest corner of said Section One.

THENCE with a portion of the southerly lines of said Academy Place Section One, the following three (3) courses and distances:

- 1 \$ 70° 00' 58" E, a distance of 223.29 feet to a 1/2-inch iron rod found for an angle point.
- 2. S 89" 11' 10" E, a distance of 191 57 feet to an into-rod found for an angle point, and
- 3 S 84" 08' 53" E, a distance of 264.44 feet to a 1/2-jitch iron rod found on a north line of Golf Course Lot 777 of said The Hills of Lakeway Phase One, being an angle point in the south line of said Academy Place Section One; ____)

THENCE with the common line of said Golf Course Lot 777 and said Academy Place Section One, N 81° 47' 25° E, a distance of 378.53 feet to a 1/2-inch iron rod found on the west line of said Tournement Way, being a non-tangent point of curvature to the right;

THENCE leaving said Academy Place Section One, with the west line of said Tournament Way, being the east line of said Golf Course Lot 777, the following three (3) courses and distances:

Page 3

EXHIBIT "A" (Legal Description) Academy of Golf, Austin, Texas

2.

with the arc of said curve to the right a distance of 22.25 feet, having a central angle of 63° 49' 07", radius of 19.98 feet, and chord which bears S 49° 26' 17" E, a distance of 21 12 feet to an iron rod found for the termination of said curve.

S 17" 16' 25" E, a distance of 76.52 feet to a 1/2-inch iron rod found for a nontangent point of curvature to the right, and

with the arc of said curve a distance of 178.94 feet, having a central angle of 20° -36' 15", radius of 497 60 feet, and a chord which bears S 06° 57' 28" E, a distance of 177 98 feet to an iron rod found for the southeast corner of said Golf Course bot 777, being the northeast corner of Lot 253 of said The Hills of Lakeway Phase One:

THENCE with southerly lines of said Golf Course Lot 777, being with the northerly lines of lots 253 through 259, inclusive, of said The Hills of Lakeway Phase One, the following three (3) courses and distances:

- 1. N.82* 48* 03* W. a distance of 185.68 feet to a 1/2-inch iron rod found for angle point.
- 2. S 78° 27° 25° W, a distance of 675.21 feet to a 1/2-inch iron rod found for angle point and
- N 69° 83' 55° W, a distance of 470 64 feet to a 1/2-inch iron rod found for the northwest comer of said Lot 259, being an interior corner of said Golf Course Lot 777,

THENCE with the westerly line of said Lot 259, being an easterly line of said Golf Course Lot 777, \$ 23° 09' 05° W, a distance of 165.00 feet to a P K mail found in a concrete drainage channel for the southwest comer of said Lot 259, being a southeast corner of said Golf Course Lot 777 and of the tract described herein, same being on the north line of said northerly branch of Club Eatates Parkway (50-foot right-of-way),

THENCE with said north line, being a south line of said Golf Course Lot 777, with the arc of a curve to the left an arc distance of 100 33 feet, having a central angle of 02° 30° 00°, radius of 2299 27 feet, and chord which bears N 68° 05° 55° W, a sistance of 100 32 feet to an iron rod found at a non-tangent point of reverse curvature to the right.

THENCE with the arc of said curve, a distance of 29:45 feet, having a central angle of 90° 24' 19°, radius of 25.00 feet, and chord which bears N 24' 28' 28' W, a distance of 35.48 feet to an iron rod found at a non-tangent point of reverse curvature, being on the east line of The Hills Drive, a 100-foot wide public street right-of-way as shown on said plat of The Hills of Lakeway;

THENCE with the east line of said The Hills Drive as shown an said plattend the east line of The Hills Drive as dedicated by instrument recorded in Volume 7032. Plage 1 of the Travis County, Texas Deed Records, being partly with the west line of said Golf Course Lot 177 and partly with the west line of said Lot 1, World of Tennis Section One, the following four (4) courses and distances:

- with the arc of a curve to the left a distance of 218,65 feet, having a canzel angle of 24° 40° 00°, radius of 507 89 feet, and chord which bears N 08° 19' 23° E; a distance of 216.97 feet to an iron rod found at a point of tangency.
- N 04" 00" 37" W. a distance of 170.28 feet to an iron rod found at a point-ofcurvature to the right.

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EXHIBIT "A" (Legal Description) Academy of Golf, Austin, Texas

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with the arc of said curve, at a distance of 25.90 feet passing the most northerly corner of said The Hills Drive as shown on said plat, being the southeast corner of said The Hills Drive dedicated in Volume 7032, Page 1 of the Devd Records of Travis County, Texas, and being the south corner of said Lot 1 World of Tennis Section One, continuing with the arc of said curve a total distance of 233.37 feet, having a central angle of 29° 10° 00°, radius of 458.44 feet, and chord which -bears N 10° 34' 23° E. a distance of 230 86 feet to an iron rod found at a point of, reverse curvature, and

with the arc of said curve to the left a distance of 191 61 feet, having a central apple of 09° 32' 00°, radius of 1151.57 feet and chord which bears N20° 23' 23° E, a distance of 191 39 feet to an iron rod found at a non-tangent point of reverse curvature;

THENCS with the are of said curve to the right a distance of 35 32 feet, having a central angle of 80 56:43*, radius of 25 00 feet, and chord which bears N 56* 02' 18" E, a distance of 32.45 feet to an iron rod found on the southerly line of Lakeway Boulevard, a 120-foot wide public street right of way as shown on the plat of Lakeway Section Nineteen as recorded in Book 58, Page 69 of the Travis County, Fexas Plat Records,

THENCE with the Southering hime of said Lakeway Boulevard, for a northering line of the tract described herein, the following (out) (4) courses and distances

- with the arc of a curve to the left at a distance of 64 22 feet passing a concrete monument, found-for the mest easterly corner of Lot 1 of said Lakeway Section Nineteen, coptinging a total distance of 282.67 feet along the arc of said curve, having a central angle of 36° 37' 45°, radius of 442 15 feet, and chord which bears N 78° 05' 36° E, a distance of 277 88 feet to a 1/2-inch iron rod found for the non-tangent termination of said curve.
- 2. N 59" 43' 47" E, a distance of 326/81 feet to a 1/2-inch iron rod found for a nontangent point of curvature to the left.
- 3. with the arc of said curve a distance of, 330 25 feet, having a central angle of 32° 34′ 30°, radius of 580 87 feet, and chord which bears N 43° 27′ 23° E, a distance of 325.82 feet to a 172-inch from rod found for the non-tangent termination of said curve, and
- 4 N 27° 11° 27° E, a distance of 59 94 feet to a 1/2-inch iron rod found for the most westerly corner of Lot 29 of said The Hills of Lakeway Phase 12.

THENCE leaving seid Lakeway Bouleverd, with the southerly lines of said St. Andrews Planned Unit development the following two (2) courses and distances

- 1. S 82° 50' 13" E, a distance of 111 25 feet to a 172-inch iron rod found for an angle point, and
- N 59° 45' 21" E, a distance of 1057 74 feet to the POINT-OF BEGINNING and containing 50 63 acres of land

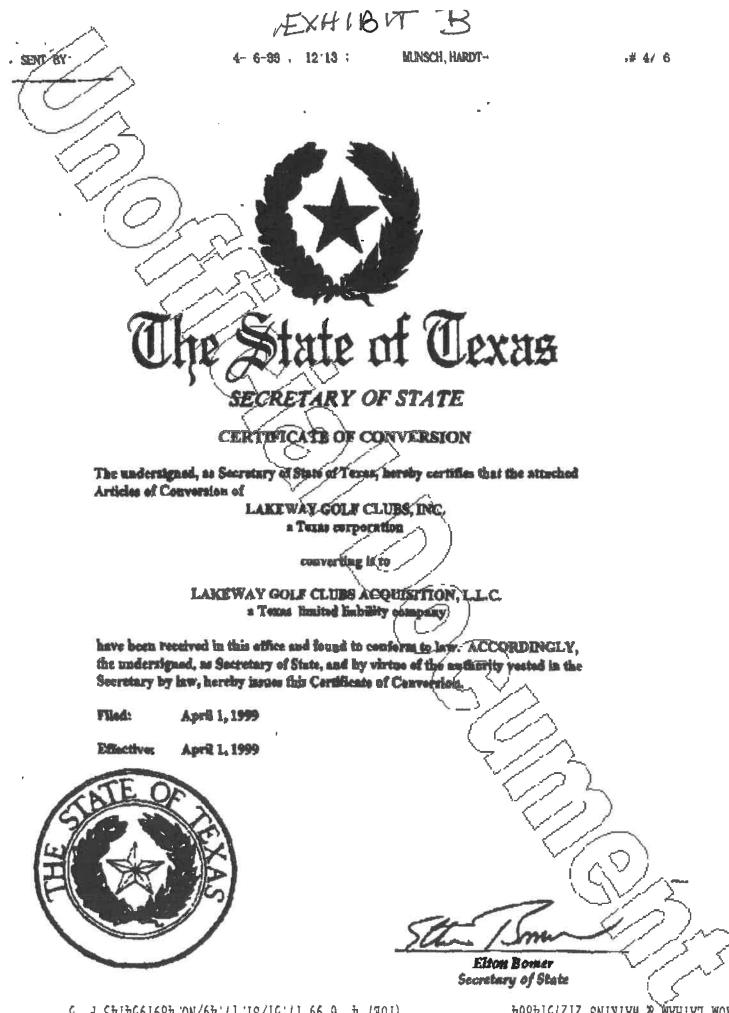
Page 5-

EXHIBIT "A" (Legal Description) Academy of Golf, Austin, Texas

3.

EXHIBIT "B"

(Certificate of Merger attached hereto)



(IDE) 4 6'99 17.51/ST.17.49/NO.4891954143 P 5

FROM LATHAM & WARTELUS 2127514864

FILED AND RECORDED

Ann ABrintan

04-12-1999 12:20 PM 1999005108 HAYWODDK \$29.00 Dana DeBeauvoir ,COUNTY CLERK TRAVIS COUNTY, TEXAS

RECORDERS MEMORANDUM-At the time of redordation this instrument was found to be inadequate for the best-photographic reproduction, because of illegibility, carbon or photocopy, discolored paper, etc All blockouts, additions and changes were present at the time the instrument was filed and recorded

FIRST AMENDMENT TO AMENDED WASTE DISPOSAL CONTRACT

This First Amendment to Amended Waste Disposal Contract (the "First Amendment") is entered into by and between Hurst Creek Municipal Utility District ("District") and Clubcorp Golf of Texas, L.P. ("the Company"), as follows:

WHEREAS, the District and Lakeway Golf Clubs, Inc. heretofore entered into that certain "Amended Waste Disposal Contract Between Hurst Creek Municipal Utility District and Lakeway Golf Clubs, Inc.", dated August 30, 1997 ("Amended Waste Disposal Contract"); and

WHEREAS, the Company has succeeded to the rights and responsibilities of Lakeway Golf Clubs, Inc. under the Amended Waste Disposal Contract; and

WHEREAS, the Amended Waste Disposal Contract authorizes the sale of the District's wastewater effluent and raw water to the Company for the irrigation of The Hills Golf Course, the Academy of Golf three-hole course, and The Hills Driving Range (referred to as "Irrigated Area" in the Amended Waste Disposal Contract), owned by the Company, and located within the boundaries of the District; and

WHEREAS, the District has secured a wastewater treatment and disposal permit from the Texas Natural Resource Conservation Commission, TNRCC Permit No. 12215-001, which requires the District to dispose of up to 500,000 gallons per day ("gpd") on an average annual basis of wastewater effluent; and

1

WHEREAS, in order to ensure that the District has the capability of disposing of wastewater effluent in the amounts described in the Amended Waste Disposal Contract and its TNRCC Permit No. 12215-001, the District and the Company desire to amend said contract as herein provided.

NOW, THEREFORE, FOR AND IN CONSIDERATION OF the sum of TEN DOLLARS (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties agree as follows:

<u>Section 1</u>. Except as provided in this First Amendment, all terms and conditions of the Amended Waste Disposal Contract shall continue in effect for the term of said contract, except to the extent that said terms and conditions conflict with the express provisions of this First Amendment. In such event, the express provisions of this First Amendment shall control.

<u>Section 2</u>. The following definitions in Article I of the Amended Waste Disposal Contract are hereby amended as follows:

 (a) <u>Irrigated Area</u>: "Irrigated Area" means those areas located in and around The Hills Golf Course, said irrigated areas described by metes and bounds in Exhibit B-1 of this Agreement.

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(b) <u>Prior Agreements</u>: "Prior Agreements" means the "Waste Disposal Contract between the Hurst Creek Municipal Utility District and Lakeway Company" dated October 12, 1987, the "First Amendment to Waste Disposal Contract between Hurst Creek Municipal Utility District and Lakeway Company" dated June 9, 1995, and the "Amended Waste Disposal Contract between Hurst Creek Municipal Utility District and Lakeway Golf Clubs, Inc." dated August 30, 1997.

<u>Section 3</u>. Article II, Section 3 of the Amended Waste Disposal Contract, "Disposal of Effluent", is hereby amended by adding the following provisions to the end of said Article and Section:

... Notwithstanding any other provision in this Agreement to the contrary, the Company agrees to maximize the reach of the Irrigation System within the Irrigated Area, and to adopt and implement irrigation and disposal practices, as necessary to fully dispose of Effluent in the amounts specified in Article II, Section 2 herein. The Company has carefully considered its ability to comply with such disposal obligations and has satisfied itself that disposal of such amounts, given its ability to so expand its Irrigation System and to implement such irrigation and disposal practices, can be accomplished so that such Effluent amounts can be lawfully disposed of by irrigation of the Irrigated Area without causing the golf course to become unacceptable as a first-class golf course.

3

Section 4. Article III, Section 6 of the Amended Waste Disposal Contract, "Operation of Irrigation System and Irrigated Area", is hereby amended by deleting the phrase "... and within the boundaries of the golf course" from the fifth sentence of the second paragraph of said Article and Section.

Section 5. By its execution of this First Amendment, the Company formally consents to the District's provision of a temporary reclaimed water supply, made up of treated wastewater effluent and/or raw water, to the Hills II Golf Course, pursuant to the terms and conditions of that certain "Temporary Reclaimed Water Supply Contract" entered into between the District and Hills II of Lakeway, Inc., an affiliate of the Company, contemporaneously with the execution of this First Amendment.

Section 6. Within thirty (30) days of the execution of this First Amendment, the Company shall provide the District with an easement, in a form and substance acceptable to the District, authorizing and permitting the District to construct, operate, maintain, repair and/or replace the facilities necessary to: (a) divert Raw Water at the District's existing Raw Water Diversion Point on Hurst Creek to the Wastewater Treatment Plant; (b) from the Wastewater Treatment Plant to an existing valve vault on The Hills Golf Course; (c) from said valve vault to the District's existing Irrigation System pumphouse on The Hills Golf Course.

4

<u>Section 7</u>. A metes and bounds description of the Irrigated Area as defined in this First Amendment is attached hereto as **Exhibit B-1**. **Exhibit B** of the Amended Waste Disposal Contract is hereby replaced by **Exhibit B-1**, attached hereto and made a part of the Amended Waste Disposal Contract for all purposes.

Section 8. The Effective Date of this First Amendment is Angua 2000.

IN WITNESS WHEREOF, the parties hereto have executed this First Amendment in multiple counterparts, each of which shall be deemed to be an original, as of the Effective Date defined herein.

CLUBCORP GOLF OF TEXAS, L.P.

By: ClubCorp Cen Par of Texas, L.L.C. its general partner

By: v p

ATTEST:

By: 05 otto en

~

HURST CREEK MUNICIPAL UTILITY DISTRICT

By: Haskell Wotkyns, Jr. President, Board of Directors

ATTEST:

By: M.D. Ingram Secretary, Board of Directors



EXHIBITS

Exhibit B-1 Metes and Bounds Description of Irrigated Area

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Exhibit B-1

A DESCRIPTION OF A 162.12 NET ACRE TRACT OF LAND OUT OF THE TEXAS CENTRAL RAILROAD COMPANY SURVEY NO. 195, J.H. LOHMAN SURVEY NO. 523. H. HOFFMEISTER SURVEY NO. 469. W. FAUCETT SURVEYS NO. 425 AND 426. AND THE C.W. WALDRON SURVEY NO. 78. ALL IN TRAVIS COUNTY, TEXAS, BEING A PORTION OF THAT 188.621 TRACT OF LAND AS DESCRIBED IN THAT SPECIAL WARRANTY DEED FROM FEDERAL DEPOSIT INSURANCE CORPORATION TO THE HILLWOOD PROPERTY COMPANY AS EXHIBIT A-S. AND RECORDED IN VOLUME 12364, PAGE 1915 OF THE REAL PROPERTY RECORDS OF TRAVIS COUNTY, TEXAS; SAID 162.12 NET ACRE TRACT, AS SHOWN ON SURVEY RESOURCES, INC. DRAWING NO. C077-249501-01, AS TRACT 1, SAVE AND EXCEPT THAT CERTAIN 0.14 ACRE TRACT OF LAND AS DESCRIBED IN THAT DEED TO THE HURST CREEK MUNICIPAL UTILITY DISTRICT AS RECORDED IN VOLUME 9228, PAGE 248. THAT CERTAIN 0.732 ACRE TRACT OF LAND DESCRIBED IN THAT SPECIAL WARRANTY DEED TO THE HURST CREEK MUNICIPAL UTILITY DISTRICT, AS RECORDED IN VOLUME 11375. PAGE 79, BOTH OF THE REAL PROPERTY RECORDS OF TRAVIS COUNTY, TEXAS, AND THAT 0.70 ACRE TRACT OF LAND DESCRIBED BELOW: SAID 162.12 NET ACRE TRACT AS SHOWN ON SAI DRAWING NO. C077-249501-01. BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

Inst 1 . 163.69 Acres:

SEGINNING at a 1/2-inch iron rod found at the southwest corner of Lot 260. The Hills of Lakeway Phase Four, a subdivision of record in Travis County. Texas and recorded in Book 81. Page 123 of the Plat Records of Travis County, Texas; said iron rod being on the north right-of-way line of The Hills Drive (60 foot R.O.W.), a private road, as shown on said recorded plat of The Hills of Lakeway Phase Four;

THENCE with the north right-of-way line of the said Hills Drive. THE BEARING BASIS FOR THIS SURVEY. S 86° 49' 10° W, a distance of 930.90 feet to a 1/2-inch iron rod found at a non-tangent point of curvature to the right; said iron rod being at the northwesterly corner of The Hills Drive as shown on the subdivision plat of The Hills of Lakeway Phase Three, a subdivision of record in Travis County, Texas and recorded in Book 80, Page 230, of the Plat Records of Travis County, Texas;

THENCE continuing along the north right-of-way line of The Hills Drive with said curve to the right a distance of 40.95 feet along the arc, having a radius of 1622.84 feet, a central angle of 01° 26' 45° and a subchord which bears \$ 87° 12' 26° W, a distance of 40.95 feet to a 1/2-inch iron rod found at a point of non-tangent, compound curvature of a curve to the right;

THENCE with said curve to the right a distance of 28.07 feet along the arc, having a radius of 15.31 feet, a central angle of 97° 33° 47° and a chord which bears N 43° 07' 53° W, a distance of 23.03 feet to a 1/2-inch worl rod found at a non-tangent point of compound curvature of a curve to the right; said iron rod being in the east right-of-way line of Silktassel Lane, a private street, as shown on said subdivision plat of The Hills of Lakeway Phase Three;

THENCE with the east right-of-way of said Silktassel Lane the following four (4) courses:

- a distance of 21.02 feet along the arc of said curve to the right, having a radius of 25.00 feet, a central angle of 48° 09' 55° and a chord which bears N 30° 44° 02° E, a distance of 20.40 feet to a 1/2-inch iron rod found at a nontangent point of reverse curvature to the left,
- a distance of 42.17 feet along the arc of said curve to the left, having a radius of 50.00 feet, a central angle of 48° 19° 31° and a chord- which bears N 30° 36° 52° E, a distance of 40.93 feet to a 1/2-inch iron rod found at the point of termination of said curve.
- N 06" 27' 58" E, a distance of 40.14 feet to a 1/2-inch iron rod found at a nontangent point of a curve to the left, and
- 4. a distance of 37.73 feet slong the arc of said curve to the left, having a radius of 50.00 feet. a central angle of 43° 13′ 48° and a chord which bears N 15° 12′ 21° W, a distance of 36.84 feet to a 1/2-inch iron rod found at the selecthemat corner of Lot 803 of said Hills of Lakeway Phase Three;

THENCE leaving the right-of-way of Silktasset Lane, with the southeast line of said Lot 803, N 70° 31° 13° E, a distance of 150.40 feet to a 1/2-inch ron rod found at the most easterly corner of said Lot 803;

THENCE with the northeast line of The Hills of Lakeway Phase Three and of the Amended Plat of Lots 805 and 806 The Hills of Lakeway Phase Three, as recorded in Book 90, Page 52 of the Plat Records of Travis County, Texas, the following four (4) courses:

- 1. N 65° 11° 56° W, a distance of 299.97 feet to a 1/2-inch iron rod in concrete found.
- N 63° 47' 57° W, a distance of 343.11 feet to a 1/2-inch iron rod found.
- 3. N 50° 39' 51" W, a distance of 239.11 left to a 1/2-inch iron rod found, and
- 4. S 77° 18° 41° W, a distance of 61.32 feet to a 1/2-inch iron rod found at the southeast corner of Common Area 782, The Hills of Lakeway Phase Six, a subdivision of record in Travis County, Texas, and recorded in Book 81, Page 373 Plat Records of Travis County, Texas;

THENCE with the east line of said Hills of Lakeway Phase Six the following two (2) courses:

- N 09° 14' 37° E, a distance of 85.13 feet to a 1/2-inch iron rod found in the south right-of-way line of Treehaven Lane (60 foot R.O.W.), a private street, as shown on said subdivision plat of The Hills of Lakeway Phase Six, and
- 2. N 77° 10° 16° E, with said right-of-way line, a distance of 225.75 feet to a 1/2inch iron rod found at a point of a non-langent point of curvature to the right, for the west corner of a called 5.213 acre tract of land described in a deed from Federal Deposit Insurance Corporation to Lakeway Property Company. Ltd. as Exhibit A-5-A, and recorded in Volume 12354, Page 2021, of the Deed Records of Travis County, Texas:

THENCE leaving the east right-of-way of Treehaven Lane, with south line of the said 5.213 acre tract, being a north line of said 188.621 acre tract, the following two (2) courses:

- a distance of 23.99 feet along the arc of said curve to the right, having a radius of 17.17 feet, a central angle of 80° 04' 30° and a chord which bears S 68° 21' 43° E, a distance of 22.09 feet to a 1/2-inch iron rod found at a nontangent point of reverse curvature to the left, and
- a distance of 106.42 fest along the arc of said curve to the left, having a radius of 192.61 feet, -a central angle of 31° 39° 28° and a chord which bears 5.44° 09° 05° E, a distance of 105.07 feet to a point of a non-tangent compound curve;

THENCE leaving said line, over and across said 188.621 acre tract, a distance of 280.73 feet along the arc of said curve to the left, having a radius of 346.00 feet, a central angle of 48° 29' 14° and a chord which bears 5 73° 27' 11° E, a distance of 273.09 feet to a nontangent point in said south line of the 5.213 acre tract, being a north line of said 188.621 acre tract:

THENCE continuing with said south line of the 5.213 acre tract, being a north line of said 168.621 acre tract, the following four (4) courses:

- 1. S 78° 31' 24° E. a distance of 24.09 feet to a 1/2-inch iron rod found, at a point of curvature to the left,
- a distance of 99.42 feet along the arc of said curve to the left, having a radius of 90.69 feet, a central angle of 62° 48' 50° and a chord which bears N 70° 04' 11° E, a distance of 94.52 feet to a 1/2-inch iron rod found at the point of termination of said curve.

- 3. N 38" 39' 46" E, a distance of 11.93 feet to a point, and
- S 64" 48' 10" E. a distance of 99.72 feet to a 1/2-inch iron rod found for a south corner of said 5.213 acre tract, being an intenor north corner of said 188.621 acre tract:

THENCE leaving the south line of said 5.213 acre tract, being a north line of said 188.621 acre tract, over and across and 188.621 acre tract, the following four (4) courses and distances:

- 1. S 52° 21' 17° E, a distance of 229.39 feet to a 1/2-inch iron rod set.
- 2. S 70° 25' 47° E, a distance of 123.39 feet to a 1/2-inch iron rod set.
- 3. N 26° 51' 54° E, a distance of 213.42 feet to a 1/2-inch iron rod set, and
- 4. N 47° 24' 50° W, a distance of 170.43 feet to a 1/2-inch iron rod found for a northeast corner of said 5.213 acre tract, being an interior southwest corner of said 188,621 acre tract;

THENCE with the north and west lines of said 5.213 acre tract, being interior south and east lines of said 188.621 acre tract, the following seven (7) courses:

- 1. N 08" 17' 28" W, a distance of 131.01 feet to a 1/2-inch iron rod found.
- 2. N 25" 33' 30" W, a distance of 305.14 feet to a 1/2-inch iron rod found.
- 3. N 65" 06" 11" W, a distance of 153.20 feet to a 1/2-inch iron rod found.
- 4. S 22* 57' 23* W, a distance of 216.92 feet to a 1/2-inch iron rod found.
- 5. S 24" 05' 23" W. a distance of 165.60 feet to a 1/2-inch won rod found.
- 6. S 27" 51' 42" W, a distance of 129.23 feet to a 1/2-inch iron rod found, and
- 7. S 54⁺ 46⁺ 25⁺ E, a distance of 88.19 feet to a 1/2-inch iron rod set for a nontangent point of curvature to the right in a south line of said 5.213 acre tract, being a north line of said 188.621 acre tract;

THENCE leaving said line, over and across said 188.621 acre tract, a distance of 59.85 feet along the arc-of said curve to the right, having a radius of 296.00 feet, a central angle of 11° 35° 04° and a chord which bears 5 76° 01° 18° W, a distance of 59.75 feet to a point in a north line of said 5.213 acre tract, being a south line of said 188.621 acre tract:

THENCE continuing with said north line of the 5.213 acre tract, being a south line of said 188.621 acre tract, the following three (3) courses:

- 1. N 78" 31" 24" W, a distance of 53.36 feet to a 1/2-inch iron rod found, at a point of curvature to the right.
- a distance of 176.88 feet along the arc of said curve to the right, having a radius of 939.24 feet, a central angle of 10° 47' 25° and a chord which bears N 73° 06' 35° W, a distance of 176.62 feet to a 1/2-inch iron rod found at a point of compound curvature, and
- 3. a distance of 15.12 feet along the arc of said curve to the right, having a radius of 142.61 feet, a central angle of 06° 04' 22° and a chord which beers N 64° 40' 32° W, a distance of 15.11 feet to a non-tangent point of compound curvature;

THENCE leaving said line, over and across said 188.621 acre tract, the following two (2) courses:

- a distance of 70.25 feet along the arc of said curve to the right, having a radius of 296.00 feet, a central angle of 13° 35' 56° and a chord which bears N 42° 33' 15° W, a distance of 70.09 feet to a point of compound curvature, and
- 2. a distance of 21.52 feet along the arc of said curve to the right, having a radius of 15.00 feet, a central angle of 82° 11° 48° and a chord which bears N 05° 20′ 36° E, a distance of 19.72 feet to a 1/2-inch iron rod found in said aouth right-of-way line of Treehaven Lane, for a west corner of said 188.621 acretract, being the most westerly corner of that certain 0.0072 acret tract of land described in a deed from Lakeway Company to J. Clark Nowiin and recorded in Volume 8452, Page 330 Deed Records of Travis County, Texas:

THENCE leaving said right-of-way of Treehaven Lane, with the southeast line of said 0.0072 acre tract and the southeast line of Lot A of the Amended Plat of Lots 480 and 481. The Hills of Lakeway, Phase Six P.U.D., a subdivision of record in Travis County, Texas, and recorded in Book 90, Page 154, Plat Records of Travis County, Texas, N 62° 32' 56° E, a distance of 142,14 feet to a 1/2-inch iron rod found;

THENCE with the sast line of said Amended Plat of Lots 480 and 481. The Hills of Lakeway. Phase Six P.U.D., and Hills of Lakeway Phase Six. N 27° 56' 18° E, a distance of 287.34 feet to a 1/2-inch iron rod found at the southeast corner of Lot 487-A. Amended plat of Lots 487 and 488. The Hills of Lakeway Phase Six, P.U.D., a subdivision of record in Travis County, Texas and recorded in Book 87, Page 1298. Plat Records of Travis County, Texas:

THENCE with the east line of said amended plat the following three (3) courses:

- 1. N 11" 18' 37" E, a distance of 113.73 feet to a 1/2-inch iron rod found,
- 2. N 02° 34' 35° W, a distance of 92.24 feet to a 1/2-inch iron rod found.
- 3. N 82° 22° 58° W, a distance of 73.24 feet to a 1/2-inch iron rod found at the northwest corner of Lot 488A of said amended plat; said iron rod being in the east line of common area Lot 773, The Hills of Lakeway Phase Two, a subdivision of record in Travis County, Texas, and recorded in Book 79. Page 388. Plat Records of Travis County, Texas.

THENCE with the east line of said Hills of Lakeway Phase Two the following four (4) courses:

- 1. N 19" 25' 30" E. a distance of 209.09 feet to a 1/2-inch iron rod found.
- 2. N 15" 16' 09" E, a distance of 306.90 feet to a 1/2-inch iron rod found.
- 3. N 07" 46' 08" E, a distance of 215.59 feet to a 1/2-inch iron rod found, and
- 4. N 40° 09' 55° W, a distance of 21.85 feet to a 1/2-inch iron rod found at the southeast corner of common area Lot 758. The Hills of Lakeway Phase One. a subdivision of record in Travis County. Texas and recorded in Book 79, Page 324. Plat Records of Travis County. Texas:

THENCE with the east line of said Hills of Lakeway Phase One the following four (4) courses:

- 1. N 10° 26' 45° E. a distance of 186.76 feet to a 1/2-inch iron rod found.
- 2. N 60° 29' 55° E, a distance of 284.94 feet to a 1/2-inch iron rod found.
- 3. N 25° 50° 26° E, a distance of 170,12 feet to a 1/2-inch iron rod found, and

EXHIBIT B-1 (Legal Description) The Hills Country Club, Austin, Texas N 51° 46' 38° E, a distance of 336.93 feet to a 1/2-inch iron rod found at the most sasterly common corner of Lots 253 and 773, The Hills of Lakeway Phase One;

THENCE with the common line of said Lots 252 and 773, N 36° 25' 56° W, a distance of 201.53 feet to a 1/2-linch iron rod found at a non-tangent point in a curve to the left in the east right-of-way line of Club Estates Parkway (a ROW of varying width), as shown on the plat of said Hills of Lakeway Phase One, for the most northerly common corner of Lots 252 and 773;

THENCE with the east right-of-way of said Club Estates Parkway the following four (4) courses:

- a distance of 85.07 feet along the arc of said curve to the left, having a radius of 320.00 feet, a central angel of 15° 13' 54° and a chord which bears N 35° 26' 15° E, a distance of 84.82 feet to a 1/2-inch iron rod found at the point of termination of said curve.
- N 27" 44" 53" E, a distance of 163.68 feet to a 1/2-inch iron rod found at a nontangent point of curvature to the left.
- 3. a distance of 458.21 feet along the arc of said curve to the left, having a radius of 565.99 feet, a cantral angle of 46° 23' 07° and a chord which bears N 04° 33' 20° E, a distance of 445.80 feet to a 1/2-inch iron rod found for the termination of said curve.
- N 18° 37' 29° W, a distance of 32.85 feet to a 1/2-inch iron rod found for the southwest corner of Lot 729;

THENCE leaving the east right-of-way of Club Estates Parkway with the south line of Lot 729. N 48° 41' 00° E, a distance of 164.37 (set to a 5/8-inch iron rod found at the southeast corner of Lot 729;

THENCE with the east line of The Hills of Lakeway Phase One the following six (6) courses:

- 1. N 00° 21° 31° E, a distance of 228.03 feet to a 1/2-inch iron rod found.
- 2. N 19" 37' 01" W, a distance of 351.17 feet to a 1/2-inch iron rod found.
- 3. N 01* 00' 55* E, a distance of 476.67 feet to a 1/2-inch iron rod found.
- N 25° 38' 55° E, a distance of 234.54 feet to a 1/2-inch iron rod found on the south right-of-way of The Hills Drive, as shown on said Hills of Lakeway Phase One.
- with the southeast line of said The Hills Orive as shown on said Hills of Lakeway Phase One, N 22° 52° 55° E, a distance of 60.00 feet to a point in a concrete golf cart path, and
- 6. with the north right-of-way of said The Hills Drive, N 67° 03' 22° W, a distance of 80.10 feet to a railroad spike found at the southeast corner of "The Masters" at The Hills of Lakeway, a subdivision of record in Travis County, Texas and recorded in Book 85, Page 82A, Plat Records of Travis County, Texas:

THENCE with the east line of "The Masters" at The Hills of Lakeway the following nine (9) courses:

- 1. N 22° 53' 09° E. a distance of 116.75 feet to a 1/2-inch iron rod found.
- 2. N 39° 36' 17° E, a distance of 174.27 feet to a PK nail found.
- 3. N 56° 46' 48° E, a distance of 203.58 feet to a 1/2-inch iron rod found.
- N 69" 05' 22" E. a distance of 314.12 feet to a 1/2-inch iron rod found.

EXHIBIT B-1 (Legal Description) The Hills Country Club, Austin, Texas

- 5. N 67" 19' 33" E, a distance of 106.13 feet to a 1/2-inch iron rod found,
- 6. N 43° 47' 34° E, a distance of 146.71 feet to a 1/2-inch iron rod found,
- 7. N 08° 52' 31° W, a distance of 83.78 feet to a 1/2-inch iron rod found,
- 8. N 21" 08' 39" E. a distance of 157.53 feet to a 1/2-inch iron rod found, and
- 9. N 30° 11° 21° W, a distance of 176.41 feet to a 1/2-inch iron rod found in the south right-of-way of Lakeway Boulevard (120 foot ROW) as dedicated by Lakeway Section 16-A, a subdivision of record in Travis County, Texas and recorded in Book 59, Page 19, Plat Records of Travis County, Texas;

THENCE with the said south right-of-way of Lakeway Boulevard, the following three (3) courses:

- N 59° 54' 00° E. a distance of 400.27 feet to a 1/2-inch iron rod found at a nontangent point of curvature to the left.
- a distance of 149.84 feet along the arc of said curve to the left, having a radius of 632.96 feet, a central angle of 13° 33' 48° and a chord which bears N 52° 45° 49° E, a distance of 149.49 feet to a 1/2-inch iron rod found for the termination of said curve, and
- 3. N 46° 01° 46° E, a distance of 209.87 feet to a 1/2-inch iron rod found in the west line of a tract of land described in a deed to M&S Properties and recorded in Volume 11228, Page 212, Deed Records of Travis County, Texas; from which a 1/2-inch iron rod found in the south right-of-way of World of Tennis Boulevard at a point of curvature to the right bears, N 46° 01° 46° E, a distance of 61.23 feet:

THENCE with said west line of the M&S Tract of land S 24° 09' 35° W, a distance of 119.32 feet to a 1/2-inch iron rod found in the west line of a called 25.006 acre ...ict of land described in a deed from David H. Meck to M&S Properties and recorded in Volume 11040, Page 781, Deed Records of Travis County, Texas; from which iron rod found a 1/2-inch iron rod found at the northwest corner of said 25.006 acre tract of land bears N 33° 47' 00° E, a distance of 170.48 feet.

THENCE with the west and south lines of said 25.006 acre tract of land the following four (4) courses:

- 1. S 33" 49' 47" W, a distance of 118.39 feet to a 1/2-inch iron rod found.
- 2. S 23° 56' 44° W, a distance of 202.47 feet to a 1/2-inch iron rod found.
- S 22° 21' 28° W, a distance of 105.19 feet to a 1/2-inch iron rod found in an asphalt golf cart path at the southwest corner of said 25.006 acre tract of land, and.
- 4. S 58° 23' 03° E, a distance of 630.23 feet to a 1/2-inch iron rod found at the most northerly corner of Lot 763. The Hills of Lakeway Phase Nine P.U.D., a subdivision of record in Travis County, Texas, and recorded in Book 85. Page 19D, Plat Records of Travis County, Texas:

THENCE with the west line of said Hills of Lakeway Phase Nine the following nine (9) courses:

- 1. S 56° 37' 53° W, a distance of 159.97 feet to a 1/2-inch iron rod found.
- 2. \$ 31 36 08" W, a distance of 130.01 feet to a 60-D nail found.
- 3. S 27° 20° 56° E, a distance of 220.19 feet to a 1/2-inch iron rod found.
- A. S 68* 46' 05* E, a distance of 93.46 feet to a 1/2-inch iron rod found.

- 5. S 24" 10' 41" W, a distance of 20.01 feet to a 1/2-inch iron rod found,
- 6. S 68* 32* 15* E, a distance of 126.49 feet to a 1/2-inch iron rod found, at the southeast corner of Lot 768, in the west right-of-way line of Falling Osks Trail (60 foot ROW), a private street as shown on said plat of The Hills of Lakeway Phase Nine, at a non-tangent point of curvature to the left.
- 7. with the west right-of-way line of said Failing Oaks Trail, a distance of 30.01 feet along the arc of said curve to the left, having a radius of 1028.94 feet, a central angle of 01° 40° 18° and a subchord which bears S 21° 03' 53° W, a distance of 30.01 feet to a 1/2-inch iron rod found at the northeast corner of Lot 769.
- 8. N 68" 32' 42" W, a distance of 208.94 feet to a 1/2-inch von rod found, and
- 9. S 43° 36° 34° W, a distance of 127.56 feet to a PK nail found for a nontheast comer of a called 18.508 acre tract of land described in a deed from Federal Deposit Insurance Corporation to Lakewsy Property Company, Ltd. as Exhibit A-5-8, and recorded in Volume 12364, Page 2021, of the Deed Records of Travis County, Texas;

THENCE leaving the west line of said Hills of Lakeway Phase Nine, continuing with the interior south and east lines of the said 188.621 acre tract, being the north and west lines of the said 18.508 acre tract, the following seven (7) courses:

- 1. N 46" 07" 54" W, a distance of 295.53 feet to a 1/2-inch iron rod found.
- 2. S 63° 39' 25° W, a distance of 137.95 feet to a 1/2-inch iron red found.
- 3. S 43" 49' 30" W, a distance of 225.77 feet to a 1/2-inch iron rod found,
- S 57° 10' 15° W, a distance of 220.04 feet to a 1/2-inch iron rod found.
- 5. S 25° 52' 58° W, a distance of 261.09 feet to a 1/2-inch iron rod set,
- 6. N 67" 06' 18" W, a distance of 166.93 feet to a 1/2-inch iron rod set, and
- S 37" 10" 34" W, a distance of 61.91 feet to a 1/2-inch iron rod set in a west line of said 18.508 acre tract, being an east line of said 188.821 acre tract;

THENCE leaving said line, over and across said 188.621 acre tract, the following eight (8) courses:

- 1. N 67" 06' 18" W, a distance of 43.40 feet to a 1/2-inch iron rod set,
- 2. S 37" 12' 35" W, a distance of 256.80 feet to a 1/2-inch iron rod set.
- 3. S 15" 12" 12" E, a distance of 172.73 feet to a 1/2-inch iron red set.
- 4. S 07" 18' 47" E, a distance of 175.56 feet to a 1/2-inch iron rod set,
- 5. S 00° 42' 44" E, a distance of 120.91 feet to a 1/2-inch iron rod set.
- 6. S 20° 51' 18° E, a distance of 176.32 feet to a 1/2-inch iron rod set.
- 7. N 86° 26' 12° E, a distance of 59.71 feet to a 1/2-inch iron rod set, and
- N 48° 00° 13° E, a distance of 33.99 feet to a 1/2-inch iron rod set in a south line of said 18.508 acre tract, being a north line of said 188.621 acre tract;

THENCE with the east, south and west lines of said 18.508 acre tract, being the west, north and east lines of said 188.621 acre tract, the following six (6) courses:

1. N 89" 09' 34" E, a distance of 48.75 feet to a 1/2-inch iron rod found.

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- N 08" 49" 21" W, a distance of 163.21 feet to a 'H2-inch iron rod found. 2.
- N 06" 20' 05" E, a distance of 172.98 feet to a 1/2-inch iron rod found. 3.
- N 15" 55" 01" E, a distance of 395.93 feet to a 1/2-dmit iron rod set. 4.
- S 67" 06' 18" E. a distance of 241.49 feet to a 1/2-mch iron rod set, and 5.
- S 13" 51" 35" W, a distance of 356.78 feet to a 1/2-inch iron rod found at a west 6. corner of said 18.508 acre tract, being a east corner of said 188.621 acre tract, and being the north corner of Lot 680 of said Hills of Lakeway Phase Nine: -

THENCE continuing with the west line of said Hills of Lakeway Phase Nine and south line of the Amended Plats of Lots 865 and 867 Hills of Lakeway P.U.D. Phase 9 as recorded in Book 87. Page 788, Plat Records of Travis County, Taxas, the following fifteen (15) courses:

- S 04" 56' 30" W, a distance of 92.15 feet to a 1/2-inch iron rod found. 1.
- S 02" 19" 02" W. a distance of 65.81 faet to a 1/2-inch iron rod found. 2
- S 07" 00' 57" W, a distance of 402.74 feet to a 1/2-inch iron rod found. 3.
- S 01" 30" 46" E, a distance of 139.65 feet to a 1/2-inch iron rod found. 4.
- N 89" 00' 40" E. a distance of 166.23 feet to a 1/2-inch iron rod found at the 5. southeast comer of Lot 874, in the west right-of-way line of Hedgebrook Way (60 feet ROW), a private street as shown on said recorded plat of The Hills of Lakeway Phase Nine, at a non-tangent point of curvature to the left.
- with the west right-of-way of said Hedgebrook Way, a distance of 30.76 feet along 6. the arc of said curve to the left, having a radius of 338.00 feet, a central angle of 05" 12' 53" and a subchard which bears \$ 13" 34' 20" E, a distance of 30.75 feet to a 1/2-inch iron rod found at the northeast corner of Lot 873.
- leaving Hedgebrook Way, S 89° 00' 11° W, a distance of 172.64 feet to a 1/2-7. inch iron rod found.
- S 01" 31' 05" E, a distance of 48.17 feet to a 1/2-inch iron red found, 8.
- S 04" 10" 23" E, a distance of 246.81 feet to a 1/2-inch iron rod set. 9.
- S 72* 14' 28* E, a distance of 74.87 feet to a 1/2-inch won rod found. 10.
- \$ 85" 35' 26" E. a distance of 61.52 feet to a 1/2-inch iron rod found. 11.
- S 88° 25' 56° E, a distance of 90.56 feet to a 1/2-inch iron rod found. 12.
- S 70" 04" 05" E. a distance of 356.76 feet to a 1/2-inch iron rod found. 13.
- S 86" 29' 02" E, a distance of 273.35 feet to a 1/2-inch iron rod found, and 14.
- S 26° 28' 23° E, a distance of 98.85 feet to a 1/2-inch iron rod found, at the 15. common rear lot corner of Lots 860. The Hills of Lakeway Phase Nine and Lot 596. The Hills of Lakeway Phase Eight, a subdivision of record in Travis County, Texas. and recorded in Book 82, Page 1, Plat Records of Travis County, Texas;

THENCE with the west line of said Hills of Lakeway Phase Eight, and with the west line of the Amended Plat of Lots 561 and 562. The Hills of Lakeway Phase Eight as recorded in Book 89. Page 367, Plat Records of Travis County, Texas, and with the west line of the Amended Plat of Lots 551 and 550. The Hills of Lakeway Phase Eight as recorded in Book 90, Page 153, Plat Records of Travis County, Texas the following thirteen (13) courses:

- 1. SOO" 26" O7" E, a distance of 168.12 feet to a 1/2-inch iron rod found.
- 2. S 46" 08' 47" E, a distance of 332.52 feet to a 1/2-inch won rod found.
- 3. S 71° 28' 09° E. a distance of 165.97 feet to a 1/2-inch iron rod found.
- 4. 5 40° 39' 20° E, a distance of 185.97 feet to a 1/2-inch iron rod found.
- 5. S 21" 24" 47" E. a distance of 321,87 feet to a 1/2-inch iron rod found,
- 6. S 14" 37' 05" E, a distance of 182.15 feet to a 1/2-inch iron rod found,
- 7. 5 15° 06' 55° E. a distance of 221.50 feet to a 1/2-inch iron rod found,
- 8. S 33* 52' 16" W. a distance of 582.08 feet to a 1/2-inch iron rod found.
- 9. S 21* 37* 23* W. a distance of 173.55 feet to a 1/2-inch iron rod found.
- 10. S 10" 31' 26" W, a distance of 207.03 feet to a 1/2-inch iron rod found,
- 11. S 09° 30' 10° W, a distance of 210.59 feet to a 1/2-inch iron rod found,
- 12. S 23° 41' 00" W, a distance of 279.27 feet to a 1/2-inch iron rod found, and
- S 85" 02' 38" W, a distance of 152.88 feet to a 1/2-inch iron rod found at the common rear lot corner of Lots 520 of said The Hills of Lakeway Phase Eight, and 286. The Hills of Lakeway Phase Four, a subdivision of record in Book 81, Page 123, Plat Records of Travis County, Texas,

THENCE with the east line of said The Hills of Lakeway Phase Four the following seven (7) courses:

- 1. N 73" 36' 32" W, a distance of 183.71 feet to a 1/2-inch iron red found,
- 2. N 06° 29' 04" W, a distance of 433.22 feet to a 1/2-inch iron rod found,
- N 00* 21' 02* E, a distance of 342.41 feet to a 1/2-inch iron rod found.
- 4. N 32" 05' 22" E, a distance of 286.02 feet to a 1/2-inch iron rod found.
- 5. N 35° 33' 16° E, a distance of 212.22 feet to a 1/2-inch iron rod found.
- N 31* 12' 02" E, a distance of 99,05 feet to a 1/2-inch iron rod found, and
- N 02° 22' 59° W, a distance of 294.17 feet to a 1/2-inch won rod found at the common rear let corner of Lots 307 and 308 of said Hills of Lakeway Phase Four,

THENCE with the north line of said Hills of Lakeway Phase Four the following six (6) courses:

- 1. N 75° 56' 26° W, a distance of 167.82 feet to a 1/2-inch iron red found,
- 2. N 25° 45' 25° W, a distance of 107.80 feet to a 1/2-inch iron rod found,
- 3. N 59" 29' 45" W, a distance of 332.70 feet to a 1/2-inch iron red found,
- N 50° 46' 58° W, a distance of 504.44 feet to a 1/2-inch iron rod found.
- 5. N 84" 10' 23" W, a distance of 111.28 feet to a 1/2-inch iron rod found, and

6. N 83" 55' 43" W. a distance of 320.44 feet to a 1/2-inch iron rod found at the most northerly rear lot corner in Lot 324, of said The Hills of Lakeway Phase Four, from which a 1/2-inch iron rod found at the common rear lot corner of Lots 324 and 323 bears S 83" 55' 43" E, a distance of 45.68 feet.

THENCE with the west line of said The Hills of Lakeway Phase Four and with the west line of the Amended Plat of Lots 328 and 329. The Hills of Lakeway Phase Four as recorded in Book 88. Page 155. Plat Records of Travis County, Texas, the following seven (7) courses:

- 1. S 46* 55' 28" W, a distance of 83.41 feet to a 1/2-inch iron rod found.
- 2. \$ 43° 19' 01° E. a distance of 177,86 feet to a 1/2-inch iron red found.
- 3. S 02° 18' 43° W, a distance of 93.34 feet to a 1/2-inch iron rod found,
- 4. S 72° 03' 27" W, a distance of 227.79 feet to a 1/2-inch iron rod found,
- 5. S 36° 52' 08" W, a distance of 52.09 feet to a 1/2-inch iron rod found,
- 6. S 19° 42' 08° E, a distance of 164.90 feet to a 1/2-inch iron rod found, and
- S 27° 33° 23° E, a distance of 143.84 feet to a 1/2-inch iron rod found at the most westerly common rear lot corner of Lots 332. The Hills of Lakeway Phase Four, and common area 761, The Hills of Lakeway Phase Five-Amended, a subdivision of record in Travis County, Texas; and recorded in Book 81, Page 399. Plat Records of Travis County, Texas;

THENCE with the west line of said The Hills of Lakeway Phase Five-Amended the following nine (9) courses:

- 1. S 33" 45' 41" W, a distance of 255.94 feat to a 1/2-inch iron rod found.
- 2. S 12° 24' 25° W, a distance of 216.05 feet to a 1/2-inch iron rod found,
- 3. S 12° 07' 31° W, a distance of 254.41 feet to a 1/2-inch iron rod found,
- 4. S 23° 49' 29° W, a distance of 93.79 feet to a 1/2-inch iron rod found.
- 5. S 02" 38' 53" W, a distance of 249.81 feet to a 1/2-inch iron rod found.
- 6. S 20° 44' 36° E, a distance of 293.67 feet to a 1/2-inch iron rod found.
- 7. S 25° 33' 32° E, a distance of 137.58 feet to a 1/2-inch iron rod found.
- 8. S 05" 04" 12" E, a distance of 239.63 feet to a 1/2-inch iron red found, and
- \$ 15" 49" 28" W, a distance of 10.45 feet to a 1/2-inch iron red found at the common rear lot corner of common area 780, The Hills of Lakeway Phase Five-Amended and Lot 261, The Hills of Lakeway Phase Four,

THENCE with the west line of Lots 251 and 260. The Hills of Lakeway Phase Four the following two (2) courses:

- 1. S 15" 32' 05" W. a distance of 150.66 feet to a 1/2-inch iron rod found, and
- 2. S 04" 16' 29" E. a distance of 89.19 feet to the POINT OF BEGINNING and containing 163.69 acres of land.

Seve and Except 0.14 Acres:

COMMENCING at a 1/2-inch iron rod found in the southwess line of that certain 25.006 acre tract described in the deed to M&S Properties as recorded in Volume 11040, Page 781 of the Travis County, Texas Real Property Records, being the most northerly corner of Lot 763 of The Hills of Lakeway Phase Nine, a subdivision of record in Book 85, Page 19D of the Travis County, Texas Plat Records:

THENCE leaving said Phase Nine P.U.D., with the south line of said 25,006 acre tract, being a north line of said 188.621 acre tract. N 58" 23' 03" W, a distance of 207.78 feet:

THENCE leaving said 25.006 acre tract and crossing said 168.621 acre tract, S 31° 36' 57" W, a distance of 82.92 feet to a found chain link fence corner post being the POINT OF BEGINNING and being the northeast corner hereof:

THENCE continuing to cross said 188.621 acre tract the following five (5) courses:

- S 09" 15" 03" E. a distance of 90.30 feet to a found chain link fence post being the southeast corner hereof.
- 2. S 41° 27' 12" W, a distance of 10.79 feet to a found chain link fence post,
- S 82" 05" 53" W, a distance of 56.30 feet to a found chain link fence post being the southwest corner hereof.
- N 07* 54' 07* W, a distance of 95.83 feet to a found chain link fence post being the northwest corner hereof, and
- 5. N 80° 44' 57° E, a distance of 62.38 feet to the POINT OF BEGINNING and containing 0.14 acres of land.

Save and Except 0.732 Acres:

BEGINNING at a chain link fence corner found at the northwest corner of a 0.14 acre tract of land conveyed to Hurst Creek Municipal Utility District by deed recorded in Volume 9228, Page 248, Travis County Deed Records, same being the most northerly northeast corner hereof;

THENCE S 07° 54' 07° E, a distance of 95.83 feet, along the west line of the said 0.14 acre tract of land, to a point for the southwest corner of the said 0.14 acre tract of land;

THENCE N 82" 05' 53" E. a distance of 56.30 feet, along the south line of the said 0.14 acre tract of land, to a chain link fence comer found at a southeast comer of said 0.14 acre tract of land, same being the most easterly northeast comer hereof;

THENCE over and across a portion of the said 189.493 acre tract of land, the following eight (8) courses:

- 1. S 03" 48' 16" E, a distance of 59.72 feet to an iron rod found.
- S 47" 32" S3" W, a distance of 161.61 feet to an iron rod found, same being the most southerly comer hereof;
- 3. N 47° 29' 24° W, a distance of 29.46 feet to an iron rod found,:
- 4. N 33° 30° 51° W, a distance of 85.52 feet to an iron rod found.
- 5. N 02" 38' 44" E, a distance of 91.65 lest to an iron rod found,
- N 11" 28' 11" E, a distance of 77.94 feet to an iron rod found, same being the northweist corner hereof,

EXHIBIT B-1 (Legal Description) The Hills Country Club, Austin, Texas

- 7. N 87" 40' 52" E, a distance of 41.76 feet to an angle point, and
- S 84* 42' 07* E, a distance of 54.05 feet to the POINT OF BEGINNING and containing 0.732 acres of land.

Save and Except 0.70 Acres:

BEGINMENG at a 1/2-inch iron rod found at the northeast corner of Lot 713. The Hills of Lakeway Phase One, a subdivision of record in Travis County, Texas and recorded in Book 79. Page 324 of the Plat Records of Travis County, Texas: said iron rod being on the south right-of-way line of The Hills Drive (50 foot R.O.W.), a private road, Lot 774, as shown on said recorded plat of The Hills of Lakeway Phase One, and being on the west line of said 188.621 acre tract, for the west corner of the herein described 0.70 acre tract;

THENCE with the east line of said The Hills Drive. Lot 774, as shown on said Hills of Lakeway Phase One, being the west line of said 188.621 acre tract. N 22° 52' 55° E. a distance of 60.00 feet to a point in a concrete golf cart path, for the north corner of the herein described 0.70 acre tract:

THENCE leaving the east line of said The Hills of Lakeway. Phase One, over and across said 188.621 acre tract, 5 67° 06' 18° E, a distance of 516.18 feet to a 1/2-inch iron rod set for a northwest corner of a called 18.508 acre tract of land described in a deed from Federal Deposit insurance Corporation to Lakeway Property Company, Ltd. as Exhibit A-5-8, and recorded in Volume 12364, Page 2021, of the Deed Records of Travis County, Texas, being a southeast corner of said 188.621 acre tract and the northeast corner of the herein described 0.70 acre tract;

THENCE with a west line of said 18.508 acre tract, being an east line of said 188.621 acre tract. S 37" 10' 34" W, a distance of 61.91 feet to a 1/2-inch iron red set:

THENCE leaving said line and crossing said 188.621 acres tract. N 67" 06' 18" W, a distance of 500.89 feet to the POINT OF BEGINNING and containing 0.70 acres of land.

Together with the following essents:

Essenant Tract 1: A Blanket Essenant reserved in a deed reconded in Volume 10035, Fage 132, Real Property Records of Travis County, Taxas, for the flowage of vater for irrigation of Golf Course ever and across Lots 763, 763, 764, 765 and 766, The Hills of Lahnway Phase One, a subdivision recorded in Book 79, Pages 324-338, Flat Bacopis, Travis County, Texas.

Estenant Tract & A Golf Course Appurtement Estenant over and aspect Lots 439 and 430, The Hills of Lakevey These Three, a subdivision in Travis County, Texas, scentling to the map or plat thereof recorded in Book 50, Tays 230, Flat Estends of Travis County, Texas, located as shown on such recorded plat. A DESCRIPTION OF 50.63 ACRES OF LAND OUT OF THE C.E.P.I. & M. CO. SURVEY NO. 67 AND THE H. HOFFMEISTER SURVEY NO. 469 IN TRAVIS COUNTY, TEXAS, BEING ALL OF GOLF COURSE LOTS 768 AND 777, THE HILLS OF LAKEWAY PHASE ONE, A SUBDIVISION RECORDED IN BOOK 79, PAGE 324 OF THE TRAVIS COUNTY, TEXAS PLAT RECORDS, ALL OF LOT 1. WORLD OF TENNIS SECTION ONE, A SUBDIVISION RECORDED IN BOOK 81, PAGE 54 OF SAID PLAT RECORDS, BEING THAT SAME TRACT OF LAND AS DESCRIBED IN A DEED FROM THE FEDERAL DEPOSIT INSURANCE CORPORATION TO HILLWOOD PROPERTY COMPANY AS EXHIBIT A-3, AND RECORDED IN VOLUME 12364, PAGE 1915 OF SAID DEED RECORDS; SAID 50.63 ACRE TRACT OF LAND, AS SHOWN ON SURVEY RESOURCES, INC. ORAWING NO. C077-249502-01, BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

BEGINNENG at a 1/2-inch iron rod found in the west line of The Hills Drive, a 60-foot wide private street right-of-way as shown on said plat recorded in Book 79, Page 324 of said Plat Records, being the most northerly corner of said Golf Course Lot 768 and the most easterly corner of Lot 50, St. Andrews Planned Unit Development, a subdivision of record in Book 87, Page 157A-157C of said Plat Records, and being the most northerly corner of the tract described herein;

THENCE with the west line of said The Hills Drive, being an east line of said Golf Course Lot 768 and an east line hereof, S 12° 57' 38° E. a distance of 125.58 feet to a 1/2 inch iron rod found for an easterly corner of said Golf Course Lot 768 and the most northerly corner of Lot 709 of said The Hills of Lakeway Phase One:

THENCE leaving said The Hills Drive, with a southerly line of said Golf Course Lot 768 and the northerly lines of Lots 709 and 708 of said The Hills of Lakeway Phase One. S 59° 44' 25° W. a distance of 404.13 feet to a 1/2 inch iron rod found for the most westerly comer of said Lot 708 and an interior comer of said Golf Course Lot 768 and of the tract described herein.

THENCE with the westerly lines of Lots 708 through 705, inclusive, of said The Hills of Lakeway Phase One, being easterly lines of said Golf Course Lot 768, the following three (3) courses and distances:

- 1. S 42° 05' 09° E, a distance of 259.84 feet to a 1/2-inch iron rod found.
- 2. S 27° 35' 02° E, a distance of 106.84 feet to a 1/2-inch iron rod found, and
- 3. S 47° 27' 50° E, a distance of 222.85 feet to a 1/2-inch rod found in the west line of Club Estates Parkway, a 60-foot wide private street right-of-way as shown on said plat of The Hills of Lakeway Phase One, being the most southerly corner of said Lot 705 and an easterly corner of said Golf, Course Lot 768 and of the tract described herein;

THENCE with the said west line of Club Estates Parkway, being an east line of said Golf Course Lot 788, the following saven (7) courses and distances:

- S 00° 59' 54° W, a distance of 44.85 feet to a 1/2-inch iron rod found at a nontangent point of curvature to the right.
- with the arc of said curve a distance of 99.53 feet, having a central angle of 14" 18" 24", radius of 398.59 feet and a chord which bears 5 08" 57" 03" W, a distance of 99.27 feet to a 1/2-inch iron rod found for the termination of said curve.

- S 16" 06' 03" W, a distance of 198.50 feet to a 1/2-inch iron rod found at a nontangent point of curveture to the left.
- 4. with the arc of said curve a distance of 295.29 feet, having a central angle of 34° 37' 41°, radius of 488.58 feet and a chord which bears S 01° 14' 17° E, a distance of 290.81 feet to a 1/2-inch iron rod found for the termination of said curve,
- \$ 18" 34' 13" E, a distance of 543.52 feet to a 1/2-inch rod found at a point of non-tangent curvature to the nght, and
- 8. with the arc of said curve a distance of 409.64 feet, having a central angle of 46° 23′ 07°, radius of 505.99 feet and chord which bears S 04° 37′ 47° W, a distance of 398.54 feet to a 1/2-inch iron rod found at a point of non-tangent compound curvature, being at the point where said Club Estates Parkway branches into two (2) 50-foot wide private street rights-of-way;

THENCE with the northerly line of the north branch of said Club Estates Parkway, being the southerly line of said Golf Course Lot 768 the following five (5) courses and distances:

- with the arc of a curve to the right a distance of 112.19 feet, having a central angle of 64° 16' 49°, radius of 100.00, and chord which bears S 59° 58' 47° W, a distance of 106.40 feet to a 1/2-inch iron rod found for the termination of said curve.
- N 87° 52' 13° W, a distance of 57.86 feet to a 1/2-inch iron rod found to a nontangent point of curvature to the right.
- with the arc of said curve a distance of 327.65 feet, having a central angle of -41° 03' 12°, radius of 457.28 feet, and chord which bears N 67° 20' 13° W, a distance of 320.69 feet to a 1/2-inch iron rod found for the termination of said curve,
- N 48° 48' 13° W, a distance of 247.81 feet to a 1/2-inch iron rod found for a nontangent point of curvature to the left. and
- with the arc of said curve, a distance of 43.86 feet, having a central angle of 07° 19' 06°, radius of 343.36 feet, and chord which bears N 50° 27' 43° W, a distance of 43.83 feet to a 1/2-inch iron rod found for a point of non-tangent reverse curvature to the right;

THENCE with the arc of said curve a distance of 21.67 feet, having a central angle of 82° 46° 26°, radius of 15.00 feet, and chord which bears N 12° 43° 44° W, a distance of 19.83 feet to a 1/2-inch iron rod found at a non-tangent point of reverse curvature to the left, being in the east line of Tournament Way, a 60-foot wide privats street right-of-way as shown on said plat of The Hills of Lakeway Phase One, being a southwesterly comer of said Golf Course Lot 768:

THENCE with the cest line of said Tournement Way and the west line of said Golf Course Lot 768, the following two (2) courses and distances:

 with the arc of said curve to the left a distance of 447.03 feet, having a central angle of 45° 56' 02°, radius of 557.60 feet, and chord which bears N 05° 41° 02° E, a distance of 435.15 feet to a 1/2-inch iron rod found for the termination of said curve, and N 17° 16' 25° W, a distance of 139.75 feet to a 1/2-inch iron rod found at the point where the west line of said Golf Course Lot 768 leaves the east line of said Tournament Way, same being the most southerly comer of Academy Place Section One-8, a subdivision recorded in Book 83, Page 8 of said Plat Records;

THENCE continuing with the west line of said Golf Course Lot 768, being the east line of said Academy Place Section One-8, the following two (2) courses and distances:

- 1. N 17° 19' 06" W, a distance of 149.94 feet to a 1/2-inch iron found for an angle point, and
- 2. N 21° 18' 12° W, a distance of 318.64 feet to a 1/2-inch iron rod found for the most northerly comer of said Academy Place Section One-8, being the most easterly corner of Lot 8 of Academy Place Section One, a subdivision recorded in Book 81, Page 206 of said Plat Records;

THENCE leaving the west line of said Golf Course Lot 768, with the northerly line of said Lot 8 and the northerly line of Lot 9A of Academy Place Section One-A, a subdivision recorded in Book 81, Page 361 of said Plat Records, N 78° 22' 11° W, a distance of 158.11 feet to a 1/2-inch iron rod found for the northwest corner of said Lot 9A, being the northeast corner of Lot 10A of said Academy Place Section One-A;

THENCE with the remaining northerly line of said Academy Place Section One-A and a portion of the northerly line of Lot 22 of said Academy Place Section One, the following two (2) courses and distances:

- 1. S 58° 49' 22° W, a distance of 216.44 feet to a 1/2-inch iron rod found for an angle point, and
- S 75° 34' 07° W, a distance of S51.25 feet to a 1/2-inch iron rod found for an angle point in the northerly line of said Lot 22;

THENCE with the remaining northerly line of said Lot 22 and the northerly line of Lot 23 of said Academy Place Section One, S 50° 50° 54° W, a distance of 125.93 feet to a 1/2-inch iron rod found for the northwest comer of said Academy Place Section One;

THENCE with the westerly line of said Academy Place Section One, S 14° 32' 23° E. a distance of 160.53 feet to a 1/2-inch iron rod found for the southwest corner of said Section One;

THENCE with a portion of the southerly lines of said Academy Place Section One, the following three (3) courses and distances:

- 1. S 70° 00' 58° E, a distance of 223.29 feet to a 1/2-inch iron rod found for an angle point,
- 2. S 89" 11' 10" E. a distance of 191.57 feet to an iron rod found for an angle point, and
- 3. S 84° 08' 53° E, a distance of 264.44 feet to a 1/2-inch iron rod found on a north line of Golf Course Lot 777 of said The Hills of Lakeway Phase One, being an angle point in the south line of said Academy Place Section One;

THENCE with the common line of said Golf Course Lot 777 and said Academy Place Section One, N 81" 47' 25° E, a distance of 376.53 feet to a 1/2-inch iron rod found on the west line of said Tournament Way, being a non-tangent point of curvature to the right;

THENCE leaving said Academy Place Section One, with the west line of said Tournament Way, being the east line of said Golf Course Lot 777, the following three (3) courses and distances:

- with the arc of said curve to the right a distance of 22.25 feet, having a central angle of 63° 49' 07°, radius of 19.98 feet, and chord which bears S 49° 28' 17° E, a distance of 21.12 feet to an iron rod found for the termination of said curve.
- S 17* 16' 25" E. a distance of 76.52 feet to a 1/2-inch iron rod found for a nontangent point of curvature to the right, and
- 3. with the arc of said curve a distance of 178.94 feet, having a central angle of 20° 36° 15°, radius of 497.60 feet, and a chord which bears S 06° 57° 28° E, a distance of 177.98 feet to an iron rod found for the southeast corner of said Golf Course Lot 777, being the northeast corner of Lot 253 of said The Hills of Lakeway Phase One:

THENCE with southerly lines of said Golf Course Lot 777, being with the northerly lines of lots 253 through 259, inclusive, of said The Hills of Lakeway Phase One, the following three (3) courses and distances:

- N 82° 48' 03° W, a distance of 185.68 feet to a 1/2-inch iron rod found for angle point.
- \$ 78° '27' 25° W, a distance of 675.21 feet to a 1/2-inch iron rod found for angle point, and
- N 69" 33' 55" W, a distance of 470.64 feet to a 1/2-inch iron rod found for the northwest corner of said Lot 259, being an intenor corner of said Golf Course Lot 777;

THENCE with the westerly line of said Lot 259, being an easterly line of said Golf Course Lot 777. S 23° 09' 05° W, a distance of 165.00 feet to a P.K. nail found in a concrete drainage channel for the southwest corner of said Lot 259, being a southeast corner of said Golf Course Lot 777 and of the tract described herein, same being on the north line of said northerly branch of Club Estates Parkway (50-foot right-of-way):

THENCE with said north line, being a south line of said Golf Course Lot 777, with the arc of a curve to the left an arc distance of 100.33 feet, having a central angle of 02° 30' 00°, radius of 2299.27 feet, and chord which bears N 68° 05' 55° W, a distance of 100.32 feet to an iron rod found at a non-tangent point of reverse curvature to the right;

THENCE with the arc of said curve, a distance of 39.45 feet, having a central angle of 90° 24' 19°, radius of 25.00 feet, and chord which bears N 24' 28' 28' W, a distance of 35:48 feet to an iron rod found at a non-tangent point of reverse curvature, being on the east line of The Hills Drive, a 100-foot wide public street right-of-way as shown on said plat of The Hills of Lakeway:

THENCE with the east line of said The Hills Drive as shown on said plat and the east line of The Hills Drive as dedicated by instrument recorded in Volume 7032. Page 1 of the Travis County. Taxas Doed Records, being partly with the west line of said Golf Course Lot 777 and partly with the west line of said Lot 1. World of Tennis Section One, the following four (4) courses and distances:

- with the arc of a curve to the left a distance of 218.65 feet, having a central angle of 24° 40' 00°, radius of 507.89 feet, and chord which bears N 08° 19' 23° E. a distance of 216.97 feet to an iron rod found at a point of tangency.
- N 04° 00' 37° W, a distance of 170.28 feet to an iron rod found at a point of curvature to the right.

- 3. with the arc of said curve, at a distance of 25.90 feet passing the most northerly corner of said The Hills Drive as shown on said plat, being the southeast corner of said The Hills Drive dedicated in Volume 7032, Page 1 of the Deed Records of Travis County, Texas, and being the south corner of said Lot 1 World of Tennis Section One, continuing with the arc of said curve a total distance of 233.37 feet, having a central angle of 29" 10" 00", radius of 458.44 feet, and chord which bears N 10" 34' 23" E, a distance of 230.86 feet to an iron rod found at a point of reverse curvature, and
- 4. with the arc of said curve to the left a distance of 191.61 feet, having a central angle of 09" 32' 00", radius of 1151.57 feet and chord which bears N 20" 23' 23" E, a distance of 191.39 feet to an iron rod found at a non-tangent point of reverse curvature;

THENCE with the arc of said curve to the right a distance of 35.32 feet, having a central angle of 80° 56' 43°, radius of 25.00 feet, and chord which bears N 56° 02' 18° E, a distance of 32.45 feet to an iron rod found on the southerly line of Lakeway Boulevard, a 120-foot wide public street right-of-way as shown on the plat of Lakeway Section Nineteen as recorded in Book 58, Page 69 of the Travis County, Texas Plat Records;

THENCE with the southerly line of said Lakeway Boulevard, for a northerly line of the tract described herein, the following four (4) courses and distances:

- with the arc of a curve to the left at a distance of 64.22 feet passing a concrete monument found for the most easterly comer of Lot 1 of said Lakeway Section Nineteen, continuing a total distance of 282.67 feet along the arc of said curve, having a central angle of 36° 37' 45°, radius of 442.15 feet, and chord which bears N 78° 05' 38° E, a distance of 277.88 feet to a 1/2-inch iron rod found for the non-tangent termination of said curve.
- N 59° 43' 47° E, a distance of 325.81 feet to a 1/2-inch iron rod found for a nontangent point of curvature to the left.
- 3. with the arc of said curve a distance of 330.25 feet, having a central angle of 32° 34' 30°, radius of 580.87 feet, and chord which bears N 43° 27' 23° E, a distance of 325.82 feet to a 1/2-inch iron rod found for the non-tangent termination of said curve, and
- N 27" 11' 27" E, a distance of 59.94 feet to a 1/2-inch iron rod found for the most westerly corner of Lot 29 of said The Hills of Lakeway Phase 12;

THENCE leaving said Lakeway Boulevard, with the southerly lines of said St. Andrews Planned Unit development the following two (2) courses and distances:

- 1. S 62° 50' 13° E, a distance of 111.25 feet to a 1/2-inch iron rod found for an angle point, and
- N 59° 45' 21° E. a distance of 1057.74 feet to the POINT OF BEGINNING and containing 50.63 acres of land.