TCEQ Interoffice Memorandum

TO: Office of the Chief Clerk
Texas Commission on Environmental Quality

THRU: Chris Kozlowski, Team Leader
Water Rights Permitting Team

FROM: Jenna Rollins, Project Manager
Water Rights Permitting Team

DATE: August 20, 2021

SUBJECT: Denton County Municipal Utility District No. 4, Denton County Municipal Utility District No. 5, and Eddie Prieto
WRPERM 13774
CN602590598, CN602650905, CN605908540, RN111291977
Application No. 13774 for a Water Use Permit
Texas Water Code §§ 11.121, 11.143, Requiring Limited Mailed Notice
Unnamed tributary of Cantrell Slough, Trinity River Basin
Denton County

The application was received on July 6, 2021. Additional information was received on August 5 and August 16, 2021, and fees were received on August 17, 2021. The application was declared administratively complete and accepted for filing with the Office of the Chief Clerk on August 20, 2021. Mailed notice to the downstream water right holders of record in the Trinity River Basin is required pursuant to 30 Title Texas Administrative Code (TAC) § 295.153(c) and mailed notice to the groundwater conservation district is required pursuant to 30 TAC § 295.153(c)(2).

All fees have been paid and the application is sufficient for filing.

Jenna L. Rollins

Jenna Rollins, Project Manager
Water Rights Permitting Team
Water Rights Permitting and Availability Section

OCC Mailed Notice Required ☑YES □NO

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

August 20, 2021

Ms. Lindi Weber **VIA-EMAIL**
Peloton Land Solutions, Inc.
9800 Hillwood Pkwy Ste. 250
Fort Worth, Texas 76177

RE: Denton County Municipal Utility District No. 4, Denton County Municipal Utility District No. 5, and Eddie Prieto
WRPERM 13774
CN602590598, CN602650905, CN605908540, RN111291977
Application No. 13774 for a Water Use Permit
Texas Water Code §§ 11.121, 11.143, Requiring Limited Mailed Notice
Unnamed tributary of Cantrell Slough, Trinity River Basin
Denton County

Dear Ms. Weber:

This acknowledges receipt, on August 5 and August 16, 2021, of additional information and fees, on August 17, 2021, in the amount of $411.93 (Receipt No. M121621, copy attached).

The application was declared administratively complete and filed with the Office of the Chief Clerk on August 20, 2021. Staff will continue processing the application for consideration by the Executive Director.

Please be advised that additional information may be requested during the technical review phase of the application process.

If you have any questions concerning the application, please contact me via email at jenna.rollins@tceq.texas.gov or by phone at 512-239-1845.

Sincerely,

Jenna L. Rollins

Jenna Rollins, Project Manager
Water Rights Permitting Team
Water Rights Permitting and Availability Section

Attachment

TCEQ 19-AUG-21 07:58 AM

TCEQ - A/R RECEIPT REPORT BY ACCOUNT NUMBER

Fee Description	Fee Code / Account# / Account Name	Ref#1 / Ref#2 / Paid In By	Check Number / Card Auth. / User Data	CC Type / Tran Code / Rec Code	Slip Key / Document#	Tran Date	Tran Amount
WTR USE PERMITS	WUP	M121621	19056		BS00088125	19-AUG-21	-$411.93
	WUP	13774	081821	N	D1804051		
	WATER USE PERMITS	PELOTON LAND SOLUTIONS INC	VHERNAND	CK			
				Total (Fee Code):			-$411.93
				Grand Total:			-$5,165.93

Jenna Rollins

From: Lindi Weber [redacted]
Sent: Monday, August 16, 2021 8:37 AM
To: Jenna Rollins
Subject: RE: Denton County Municipal Utility District No. 4 and No. 5 and Eddie Prieto, WRPERM 13774
Attachments: Attachment 10_Accounting Plan_Tannery Dam.xlsx; Attachment 10_Accounting Plan Summary_Tannery Dam.docx; RFI Respone WRPERM 13774 Tannery Dam.pdf

Jenna,

Please see that attached response letter to the RFI. We will be placing a hardcopy and check for the fees into the mail today. I have also attached an electronic copy of the accounting plan and summary document per Kathy Alexander's request on our call last week.

Thanks,
Lindi

PELOTON
LAND SOLUTIONS

Lindi Weber

FORT WORTH OFFICE
9800 Hillwood Parkway, Suite 250,
Fort Worth, Texas 76177

[e] [redacted]
[o] 817.562.3350
[c] 214.458.5757

www.pelotonland.com
TBPE Firm No. 12207 | TBPLS Firm No. 10177700

PELOTON
LAND SOLUTIONS

August 16, 2021

Ms. Jenna Rollins
Project Manager, Water Rights Permitting Team
Water Rights Permitting and Availability Section
Texas Commission on Environmental Quality
12100 Park 35 Circle
Austin, Texas 78753

RE: Denton County Municipal Utility District No. 4, Denton County Municipal Utility District No. 5, and Eddie Prieto
WRPERM 13774
CN602590598, CN6026590905, CN605908540, RN111291977
Application No. 13774 for a Water Use Permit
Texas Administrative Code § 11.121, 11.143 Requiring Limited Mailed Notice
Unnamed Tributary of Cantrell Slough, Trinity River Basin
Denton County

Ms. Rollins,

On behalf of Denton County Municipal Utility District No. 4, Denton County Municipal Utility District No. 5, and Eddie Prieto, we are providing the following response to your letter dated August 5, 2021.

Comment #1 – Confirm the total amount of water to be used annually. Staff notes Worksheet 1.0 does not include the capacity of the reservoir. The quantity in the table on Worksheet 1.0 should equal the capacity of the reservoir. Staff also notes, this should be consistent with the amounts of water to be impounded on Worksheet 2.0.

- The amount of water to be used annually is 104.03 acre-ft. A copy of the revision to Worksheet 1.0 is included in **Attachment A**.

Comment # 2 – Confirm the total amount of groundwater to be discharged and the rate at which it will be discharged. Staff notes that the Worksheet 4.0 indicates that evaporative losses are 90.25 acre-feet per year and Worksheet 4.1 indicates that 1,054 acre-feet of water per year will be discharged at a rate of 171.4 cfs.

- The amount of water that will be discharged will be 102.08 acre-feet per year, and the discharge rate is 64.05 gpm (0.171 cfs). These numbers were determined by the total maximum monthly evaporation rates for each month on record (1954 to 2020) for Quad 411, which resulted in a

discharge of 89.07 acre-feet/year. Additionally, the existing groundwater well to be used as a portion of the discharge water is located approximately 1,400 feet upstream of the reservoir and will be pumped directly into an inflow channel (an existing stream channel that flows into the reservoir). Because water will be lost to evaporation and seepage along this inflow channel, we computed the losses along the inflow channel by looking at the infiltration fraction from the reservoir's flood model. The area has a curve number of 86, which corresponds to a hydraulic conductivity (K-Sat) rate of 0.206 inches per hour. This flow passes over an area of approximately 5.2 acres through the inflow channel, which gives a total discharge rate of 8.1 gpm, which equals 13.10 acre-feet per year. The total amount of water discharged was then determined by summing these two calculations.

A copy of the revisions to Worksheets 4.0 and 4.1 are included in **Attachment B**.

Comment # 3 – Provide an application in the names of all landowners as shown on the deeds; otherwise, proper consent of the application must be provided pursuant to Title 30 Texas Administrative Code (TAC) §295.11 for land where the existing dam and reservoir are located.

- Each board member of Denton Municipal Utility District No. 5 owns a 20% interest of the one-acre tract in Marcella Joes Survey, Abstract 662, in Denton County, Texas. A signed letter of consent by all five board members and corresponding deeds for each board member is included in **Attachment C**.

Comment # 4 – Remit fee in the amount of $411.93.

- Check made payable to TCEQ for $411.93 is included with this package.

Feel free to contact me at the phone number below or via e-mail at lindi.weber@pelotonland.com if you have any questions or need additional information to process this request.

Sincerely,

Lindi Weber
Peloton Land Solutions
Office: 817.562.3350

ATTACHMENT A

REVISED WORKSHEET 1.0

WORKSHEET 1.0
Quantity, Purpose and Place of Use

1. New Authorizations (Instructions, Page. 16)

Submit the following information regarding quantity, purpose and place of use for requests for new or additional appropriations of State Water or Bed and Banks authorizations:

Quantity (acre-feet) (*Include losses for Bed and Banks*)	**State Water Source (River Basin) or Alternate Source** *each *alternate source* (*and new appropriation based on return flows of others*) *also requires completion of Worksheet 4.0*	**Purpose(s) of Use**	**Place(s) of Use** **requests to move state water out of basin also require completion of Worksheet 1.1 Interbasin Transfer*
104.03	Groundwater from Woodbine Aquifer	Recreation	Oak Point ETJ, Denton County

104.03 acre-feet/year Total amount of water (in acre-feet) to be used annually (*include losses for Bed and Banks applications*)

If the Purpose of Use is Agricultural/Irrigation for any amount of water, provide:

a. Location Information Regarding the Lands to be Irrigated

i) Applicant proposes to irrigate a total of_____acres in any one year. This acreage is all of or part of a larger tract(s) which is described in a supplement attached to this application and contains a total of_____acres in_____County, TX.

ii) Location of land to be irrigated: In the_____Original Survey No. _____, Abstract No._____.

A copy of the deed(s) or other acceptable instrument describing the overall tract(s) with the recording information from the county records must be submitted. Applicant's name must match deeds.
If the Applicant is not currently the sole owner of the lands to be irrigated, Applicant must submit documentation evidencing consent or other documentation supporting Applicant's right to use the land described.

Water Rights for Irrigation may be appurtenant to the land irrigated and convey with the land unless reserved in the conveyance. 30 TAC § 297.81.

ATTACHMENT B

REVISED WORKSHEET 4.0 & 4.1

WORKSHEET 4.0
DISCHARGE INFORMATION

This worksheet required for any requested authorization to discharge water into a State Watercourse for conveyance and later withdrawal or in-place use. Worksheet 4.1 is also required for each Discharge point location requested. **Instructions Page. 26.** ***Applicant is responsible for obtaining any separate water quality authorizations which may be required and for insuring compliance with TWC, Chapter 26 or any other applicable law.***

a. The purpose of use for the water being discharged will be recreation.

b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 102.08 ac-ft/yr % and explain the method of calculation: Includes evaporation loss from reservoir using the worst case monthly pond evaporation for quad 411 and lost evaporation & seepage along channel that 1 well will be discharged into, approx 1,400 ft upstream.
Is the source of the discharged water return flows? **Y / N** N If yes, provide the following information:

1. The TPDES Permit Number(s). N/A (attach a copy of the **current** TPDES permit(s))

2. Applicant is the owner/holder of each TPDES permit listed above? **Y / N** N/A

PLEASE NOTE: If Applicant is not the discharger of the return flows, the application should be submitted under Section 1, New or Additional Appropriation of State Water, as a request for a new appropriation of state water. If Applicant is the discharger, then the application should be submitted under Section 3, Bed and Banks.

3. Monthly WWTP discharge data for the past 5 years in electronic format. (Attach and label as "Supplement to Worksheet 4.0").

4. The percentage of return flows from groundwater N/A, surface water _____?

5. If any percentage is surface water, provide the base water right number(s)_____.

c. Is the source of the water being discharged groundwater? **Y / N** Y If yes, provide the following information:

1. Source aquifer(s) from which water will be pumped: Woodbine

2. Any 24 hour pump test for the well if one has been conducted. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See http://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp. Additionally, provide well numbers or identifiers_____.
A 24-hour pump test was conducted with a 2-inch water meter, which resulted in 47 gpm.

3. Indicate how the groundwater will be conveyed to the stream or reservoir.
Piped directly into the reservoir.

4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
Copy of North Texas GCD well permit documentation is provided in Attachment 7.

ci. Is the source of the water being discharged a surface water supply contract? **Y / N** N
If yes, provide the signed contract(s).

cii. Identify any other source of the water N/A

WORKSHEET 4.1
DISCHARGE POINT INFORMATION

This worksheet is required for **each** discharge point. Submit one Worksheet 4.1 for each discharge point. If there is more than one discharge point, the numbering of the points should be consistent throughout the application and on any supplemental documents (e.g. maps). **Instructions, Page 27.**

For water discharged at this location provide:

a. The amount of water that will be discharged at this point is 102.08 acre-feet per year. The discharged amount should include the amount needed for use and to compensate for any losses.

b. Water will be discharged at this point at a maximum rate of 0.171 cfs or 64.05 gpm.

c. Name of Watercourse as shown on Official USGS maps: unnamed tributary of Cantrell Slough.

d. Zip Code 76227

f. Location of point: In the Cross Oak Ranch PH 3 Original Survey No. Tract 11, Abstract No. SD2551A, Denton County, Texas.

g. Point is at:

Latitude 33.204061 °N, Longitude -96.989347 °W.

Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places

h. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): ArcGIS, ArcMap 10.6

Map submitted must clearly identify each discharge point. See instructions Page. 15.

See project location maps in Attachment 4.

ATTACHMENT C

LETTER OF CONSENT AND DEEDS FOR 1.0-ACRE TRACT

PELOTON
LAND SOLUTIONS

August 10, 2021

Texas Commission on Environmental Quality
Water Availability Division, MC-160
12100 Park 35 Circle
Austin, Texas 78753

RE: Tannery Dam – Consent Letter

To Whom it May Concern,

The board members Denton County Municipal Utility District No. 5, consent to the use of the one-acre tract in Marcella Jones Survey, Abstract 662, in Denton County, Texas in Application No. 13774 for a Water Use Permit,

Sincerely,

Richard Biggers, President

Todd Wallace, Vice President

Eddie Prieto, Secretary

Clifton Baker, Asst. Secretary

Daniel Pulaksi, Asst. Secretary

Denton County
Cynthia Mitchell
County Clerk
Denton, Tx 76202

70 2010 00087735

Instrument Number: 2010-87735
As
Warranty Deed

Recorded On: September 03, 2010

Parties: BAKER WILLARD R

To

Billable Pages: 4
Number of Pages: 4

Comment:

(Parties listed above are for Clerks reference only)

** Examined and Charged as Follows: **

Warranty Deed	23.00
Total Recording:	23.00

************ DO NOT REMOVE. THIS PAGE IS PART OF THE INSTRUMENT ************

Any provision herein which restricts the Sale, Rental or use of the described REAL PROPERTY because of color or race is invalid and unenforceable under federal law.

File Information:

Document Number: 2010-87735
Receipt Number: 718999
Recorded Date/Time: September 03, 2010 11:04:44A
User / Station: H Dunn - Cash Station 4

Record and Return To:

SANFORD KUHL HAGAN PARKER KAHN LLP
5075 WESTHEIMER STE 1180
HOUSTON TX 77056

THE STATE OF TEXAS }
COUNTY OF DENTON }
I hereby certify that this instrument was FILED in the File Number sequence on the date/time printed heron, and was duly RECORDED in the Official Records of Denton County, Texas.

CMitchell
County Clerk
Denton County, Texas

SPECIAL WARRANTY DEED

(Denton County MUD No. 5 – Directors' Lot – Undivided 20% Interest No. 2)

THE STATE OF TEXAS §
§KNOW ALL MEN BY THESE PRESENTS:
COUNTY OF DENTON §

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OF THE FOLLOWING INFORMATION FROM THIS INSTRUMENT BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER.

THAT Willard Baker (hereinafter designated "Grantor"), for and in consideration of the sum of Ten Dollars ($10.00) and other good and valuable consideration cash in hand paid by Clifton Baker (hereinafter designated "Grantee"), with an address of c/o MAW Cross Oak Ranch, LP, 13455 Noel Road, 23rd Floor, Dallas, Texas 75240, the receipt of which is hereby acknowledged, has granted, sold and conveyed, and by these presents does hereby grant, sell and convey unto Grantee, as his sole and separate property, an undivided 20% interest in the real property in Denton County, Texas, described in Exhibit "A" attached hereto.

This Deed and conveyance is expressly made subject to all liens, encumbrances, conditions and other exceptions appearing of record in the office of the County Clerk of Denton County, Texas, and applicable to such property.

TO HAVE AND TO HOLD the above-described premises, together with all and singular the rights and appurtenances thereto in anywise belonging, unto the Grantee, his heirs and assigns, forever; and Grantor does hereby bind himself and his successors, to Warrant and Forever Defend all and singular the premises unto the said Grantee, his heirs and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof, by, through or under Grantor, but not otherwise.

EXECUTED as of the 11th day of August, 2010.

GRANTOR:

Willard R. Baker

THE STATE OF TEXAS §
§
COUNTY OF DALLAS §

This instrument was acknowledged before me on the 11th day of August, 2010 by Willard R. Baker in the capacity therein stated.

(Seal)

JOSHUA J. KAHN
MY COMMISSION EXPIRES
June 30, 2014

Notary Public in and for the
State of T E X A S

Josh J. Kahn
Name Printed or Typed
My Commission Expires: 6/30/14

After Recording, Please Return to:
Josh J. Kahn, Esq.
Sanford Kuhl Hagan Kugle Parker Kahn, LLP
5075 Westheimer
1180 Galleria Financial Center
Houston, Texas 77056

LEGAL DESCRIPTION
DIRECTOR'S LOT
DENTON COUNTY M.U.D. NO. 5

BEING A 1.000 ACRE TRACT OF LAND SITUATED IN THE MARCELLA JONES SURVEY, ABSTRACT NO. 662, DENTON COUNTY, TEXAS, AND BEING PART OF A 163.790 ACRE TRACT OF LAND, CONVEYED TO MAW CROSS OAK RANCH, LP., BY DEED RECORDED IN COUNTY CLERK'S FILE NO. 2005-R0012767, DENTON COUNTY, TEXAS, SAID 1.000 ACRE TRACT, WITH REFERENCE BEARING NORTH 00 DEGREES 15 MINUTES 16 SECONDS WEST BEING THE MONUMENTED SOUTHWEST LINE OF SAID 163.790 ACRE TRACT, BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

COMMENCING AT A 1/2" IRON ROD FOUND FOR THE SOUTHWEST CORNER OF SAID 163.790 ACRE TRACT, SAID POINT BEING AT THE INTERSECTION OF NAYLOR ROAD (A VARIABLE WIDTH PRESCRIPTIVE RIGHT-OF-WAY) AND MARTOP ROAD (A VARIABLE WIDTH PRESCRIPTIVE RIGHT-OF-WAY);

THENCE, ALONG THE WEST LINE OF SAID 163.790 ACRE TRACT, NORTH 00 DEGREES 15 MINUTES 16 SECONDS WEST, PASSING AT A DISTANCE OF 1438.67 FEET, A 1/2" IRON ROD FOUND, CONTINUING A TOTAL DISTANCE OF 2603.02 FEET TO A POINT FOR CORNER;

THENCE, OVER AND ACROSS SAID 163.790 ACRE TRACT, NORTH 89 DEGREES 54 MINUTES 33 SECONDS EAST, A DISTANCE OF 701.66 FEET TO THE **POINT OF BEGINNING**;

THENCE, CONTINUING OVER AND ACROSS SAID 163.790 ACRE TRACT, THE FOLLOWING COURSES AND DISTANCES:

NORTH 89 DEGREES 54 MINUTES 33 SECONDS EAST, A DISTANCE OF 208.71 FEET TO A POINT FOR CORNER;

SOUTH 00 DEGREES 05 MINUTES 27 SECONDS EAST, A DISTANCE OF 208.71 FEET TO A POINT FOR CORNER;

SOUTH 89 DEGREES 54 MINUTES 33 SECONDS WEST, A DISTANCE OF 208.71 FEET TO A POINT FOR CORNER;

NORTH 00 DEGREES 05 MINUTES 27 SECONDS WEST, A DISTANCE OF 208.71 FEET TO THE **POINT OF BEGINNING** AND CONTAINING 1.000 ACRES OF LAND, MORE OR LESS.

6/26/06

STATE OF TEXAS
REGISTERED
MICHAEL J. BAITUP
4574
PROFESSIONAL
LAND SURVEYOR

EXHIBIT A

D:\sld\CROSSOAK\02092101\SDATA\0921EX34.doc


70 2013 00013703

Denton County
Cynthia Mitchell
County Clerk
Denton, TX 76202

Instrument Number: 2013-13703

As

Recorded On: February 04, 2013 **Warranty Deed**

Parties: WILKEN MATHEW **Billable Pages: 4**

To **Number of Pages: 4**

Comment:

(Parties listed above are for Clerks reference only)

**** Examined and Charged as Follows: ****

Warranty Deed	28.00
Total Recording:	**28.00**

************** DO NOT REMOVE. THIS PAGE IS PART OF THE INSTRUMENT **************

Any provision herein which restricts the Sale, Rental or use of the described REAL PROPERTY because of color or race is invalid and unenforceable under federal law.

File Information:

Document Number: 2013-13703
Receipt Number: 998900
Recorded Date/Time: February 04, 2013 03:08:02P
User / Station: D Kitzmiller - Cash Station 2

Record and Return To:

SANFORD KUHL HAGAN KUGLE PARKER KAHN LLP
1980 POST OAK BLVD
STE 1380
HOUSTON TX 77056

THE STATE OF TEXAS }
COUNTY OF DENTON }

I hereby certify that this Instrument was FILED in the File Number sequence on the date/time printed heron, and was duly RECORDED in the Official Records of Denton County, Texas.

County Clerk
Denton County, Texas

SPECIAL WARRANTY DEED

(Denton County MUD No. 5 – Directors' Lot – Undivided 20% Interest No. 3)

THE STATE OF TEXAS §
§ KNOW ALL MEN BY THESE PRESENTS:
COUNTY OF DENTON §

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OF THE FOLLOWING INFORMATION FROM THIS INSTRUMENT BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER.

THAT Mathew Wilken (hereinafter designated "Grantor"), for and in consideration of the sum of Ten Dollars ($10.00) and other good and valuable consideration cash in hand paid by Daniel Pulaski (hereinafter designated "Grantee"), with an address of c/o Sanford Kuhl Hagan Kugle Parker Kahn, LLP, 1980 Post Oak Boulevard, Suite 1380, Houston, Texas 77056, the receipt of which is hereby acknowledged, has granted, sold and conveyed, and by these presents does hereby grant, sell and convey unto Grantee, as his sole and separate property, an undivided 20% interest in the real property in Denton County, Texas, described in Exhibit "A" attached hereto.

This Deed and conveyance is expressly made subject to all liens, encumbrances, conditions and other exceptions appearing of record in the office of the County Clerk of Denton County, Texas, and applicable to such property.

TO HAVE AND TO HOLD the above-described premises, together with all and singular the rights and appurtenances thereto in anywise belonging, unto the Grantee, his heirs and assigns, forever; and Grantor does hereby bind himself and his successors, to Warrant and Forever Defend all and singular the premises unto the said Grantee, his heirs and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof, by, through or under Grantor, but not otherwise.

EXECUTED as of the 7th day of December, 2012.

GRANTOR:

Mathew Wilken

THE STATE OF TEXAS §
§
COUNTY OF DALLAS §

This instrument was acknowledged before me on the 8th day of January, 2006 by Mathew Wilken in the capacity therein stated.

(Seal)

LESLIE A. CODE
Notary Public, State of Texas
My Commission Expires 10/09/2010

Notary Public in and for the
State of T E X A S

Leslie A. Code
Name Printed or Typed
My Commission Expires: 10/9/2010

After recording please return to:

Mary B. Drews
SK Law
1980 Post Oak Boulevard
Suite 1380
Houston, TX 77056

THE STATE OF TEXAS
COUNTY OF DALLAS

This instrument was acknowledged before me on the 8th day of January, 2006, by Matthew Wilken in the capacity therein stated.

JOSHUA J. KAHN
MY COMMISSION EXPIRES
June 30, 2014
(SEAL)

Notary Public in and for the
State of T E X A S

Joshua J. Kahn
Name Printed My commission expires: 6/30/2014

LEGAL DESCRIPTION
DIRECTOR'S LOT
DENTON COUNTY M.U.D. NO. 5

BEING A 1.000 ACRE TRACT OF LAND SITUATED IN THE MARCELLA JONES SURVEY, ABSTRACT NO. 662, DENTON COUNTY, TEXAS, AND BEING PART OF A 163.790 ACRE TRACT OF LAND, CONVEYED TO MAW CROSS OAK RANCH, LP., BY DEED RECORDED IN COUNTY CLERK'S FILE NO. 2005-R0012767, DENTON COUNTY, TEXAS, SAID 1.000 ACRE TRACT, WITH REFERENCE BEARING NORTH 00 DEGREES 15 MINUTES 16 SECONDS WEST BEING THE MONUMENTED SOUTHWEST LINE OF SAID 163.790 ACRE TRACT, BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

COMMENCING AT A 1/2" IRON ROD FOUND FOR THE SOUTHWEST CORNER OF SAID 163.790 ACRE TRACT, SAID POINT BEING AT THE INTERSECTION OF NAYLOR ROAD (A VARIABLE WIDTH PRESCRIPTIVE RIGHT-OF-WAY) AND MARTOP ROAD (A VARIABLE WIDTH PRESCRIPTIVE RIGHT-OF-WAY);

THENCE, ALONG THE WEST LINE OF SAID 163.790 ACRE TRACT, NORTH 00 DEGREES 15 MINUTES 16 SECONDS WEST, PASSING AT A DISTANCE OF 1438.67 FEET, A 1/2" IRON ROD FOUND, CONTINUING A TOTAL DISTANCE OF 2603.02 FEET TO A POINT FOR CORNER;

THENCE, OVER AND ACROSS SAID 163.790 ACRE TRACT, NORTH 89 DEGREES 54 MINUTES 33 SECONDS EAST, A DISTANCE OF 701.66 FEET TO THE **POINT OF BEGINNING**;

THENCE, CONTINUING OVER AND ACROSS SAID 163.790 ACRE TRACT, THE FOLLOWING COURSES AND DISTANCES:

NORTH 89 DEGREES 54 MINUTES 33 SECONDS EAST, A DISTANCE OF 208.71 FEET TO A POINT FOR CORNER;

SOUTH 00 DEGREES 05 MINUTES 27 SECONDS EAST, A DISTANCE OF 208.71 FEET TO A POINT FOR CORNER;

SOUTH 89 DEGREES 54 MINUTES 33 SECONDS WEST, A DISTANCE OF 208.71 FEET TO A POINT FOR CORNER;

NORTH 00 DEGREES 05 MINUTES 27 SECONDS WEST, A DISTANCE OF 208.71 FEET TO THE **POINT OF BEGINNING** AND CONTAINING 1.000 ACRES OF LAND, MORE OR LESS.

Michael J. Baitup 6/20/06

STATE OF TEXAS
REGISTERED
MICHAEL J. BAITUP
4574
PROFESSIONAL
LAND SURVEYOR

EXHIBIT

D:\sld\CROSSOAK\02092101\SDATA\0921EX34.doc

Denton County
Cynthia Mitchell
County Clerk
Denton, TX 76202

Instrument Number: 2006-111745

As

Recorded On: September 11, 200€ **Warranty Deed**

Parties: PRIETO EDDIE **Billable Pages: 4**

To **Number of Pages: 4**

Comment:

**** Examined and Charged as Follows: ****

Warranty Deed	28.00
Total Recording:	**28.00**

************** THIS PAGE IS PART OF THE INSTRUMENT **************

Any provision herein which restricts the Sale, Rental or use of the described REAL PROPERTY because of color or race is invalid and unenforceable under federal law.

File Information:

Document Number: 2006-111745
Receipt Number: 321635
Recorded Date/Time: September 11, 2006 09:26A
User / Station: P Sallee - Cash Station 4

Record and Return To:

JOSH J KAHN
COATS ROSE YALE RYMAN & LEE PC
3 GREENWAY PLAZA SUITE 2000
HOUSTON TX 77046

THE STATE OF TEXAS }
COUNTY OF DENTON }

I hereby certify that this Instrument was FILED in the File Number sequence on the date/time printed heron, and was duly RECORDED in the Official Records of Denton County, Texas

County Clerk
Denton County, Texas

SPECIAL WARRANTY DEED

THE STATE OF TEXAS §
§ KNOW ALL MEN BY THESE PRESENTS:
COUNTY OF DENTON §

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OF THE FOLLOWING INFORMATION FORM THIS INSTRUMENT BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVERS LICENSE NUMBER.

THAT Eddie Prieto (hereinafter designated "Grantor"), for and in consideration of the sum of Ten Dollars ($10.00) and other good and valuable consideration cash in hand paid by MAW Cross Oak Ranch, LP, a Texas limited partnership (hereinafter designated "Grantee"), with an address of 13455 Noel Road, 23rd Floor, Dallas, Texas 75240, the receipt of which is hereby acknowledged, has granted, sold and conveyed, and by these presents does hereby grant, sell and convey unto Grantee, an undivided twenty percent (20%) interest in all of the real property in Denton County, Texas, described in Exhibit "A" attached hereto.

This Deed and conveyance is expressly made subject to all liens, encumbrances, conditions and other exceptions appearing of record in the office of the County Clerk of Denton County, Texas, and applicable to such property.

TO HAVE AND TO HOLD the above-described premises, together with all and singular the rights and appurtenances thereto in anywise belonging, unto the Grantee, its heirs and assigns, forever; and Grantor does hereby bind himself and his successors, to Warrant and Forever Defend all and singular the premises unto the said Grantee, its heirs and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof, by, through or under Grantor, but not otherwise.

EXECUTED as of the 15th day of June, 2005.

GRANTOR:

Eddie Prieto

Eddie Prieto

THE STATE OF TEXAS §
§
COUNTY OF DENTON §

This instrument was acknowledged before me on the 15th day of June, 2005 by Eddie Prieto in the capacity therein stated.

(Seal)

JOSH J KAHN
Notary Public, State of Texas
My Commission Expires
June 08, 2010

Notary Public in and for the
State of T E X A S

Josh J. Kahn

Name Printed or Typed
My Commission Expires: 6/8/2010

After Recording Please Return To:
Coats, Rose, Yale, Ryman & Lee, P.C.
Attn: Josh Kahn
3 Greenway Plaza, Suite 2000
Houston, Texas 77046

Exhibit "A"

PROPERTY DESCRIPTION
1.000 ACRE

BEING A 1.000 ACRE TRACT OF LAND SITUATED IN THE MARCELLA JONES SURVEY, ABSTRACT NO 662, DENTON COUNTY, TEXAS, AND BEING PART OF A 759.199 ACRE TRACT OF LAND, CONVEYED TO MAR-TOP RANCH, LTD. BY DEED RECORDED IN COUNTY CLERK'S FILE NO. 2001-R0092648, DENTON COUNTY, TEXAS, SAID 1.000 ACRE TRACT, WITH REFERENCE BEARING NORTH 00 DEGREES 15 MINUTES 16 SECONDS WEST BEING THE MONUMENTED SOUTHWEST LINE OF SAID 759.199 ACRE TRACT, BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

COMMENCING AT A 1/2" IRON ROD FOUND FOR THE SOUTHWEST CORNER OF SAID 759.199 ACRE TRACT, SAID POINT BEING AT THE INTERSECTION OF NAYLOR ROAD (A VARIABLE WIDTH PRESCRIPTIVE RIGHT-OF-WAY) AND MARTOP ROAD (A VARIABLE WIDTH PRESCRIPTIVE RIGHT-OF-WAY),

THENCE, SOUTH 89 DEGREES 59 MINUTES 59 SECONDS EAST, ALONG THE SOUTH LINE OF AFORESAID 759.199 ACRE TRACT, A DISTANCE OF 4410.48 FEET TO A 1/2" IRON ROD FOUND FOR THE SOUTHEAST CORNER OF AFORESAID 759.199 ACRE TRACT AND BEING IN AFORESAID MARTOP ROAD,

THENCE, OVER AND ACROSS AFORESAID 759.199 ACRE TRACT, THE FOLLOWING COURSES AND DISTANCES.

NORTH 50 DEGREES 33 MINUTES 24 SECONDS WEST, A DISTANCE OF 78.70 FEET TO A POINT FOR CORNER AND THE **POINT OF BEGINNING;**

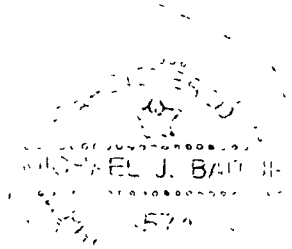
NORTH 89 DEGREES 59 MINUTES 59 SECONDS WEST, A DISTANCE OF 329 96 FEET TO A POINT FOR CORNER,

NORTH 00 DEGREES 00 MINUTES 01 SECONDS EAST, A DISTANCE OF 256.87 FEET TO A POINT FOR CORNER AND THE BEGINNING OF A NON-TANGENT CURVE TO THE LEFT HAVING A CENTRAL ANGLE OF 00 DEGREES 19 MINUTES 22 SECONDS, A RADIUS OF 637.78 FEET, AND A LONG CHORD THAT BEARS SOUTH 52 DEGREES 49 MINUTES 45 SECONDS EAST A DISTANCE OF 3.59 FEET;

ALONG SAID NON-TANGENT CURVE TO THE LEFT, AN ARC DISTANCE OF 3.59 FEET TO A POINT FOR CORNER,

SOUTH 52 DEGREES 59 MINUTES 32 SECONDS EAST, A DISTANCE OF 333.10 FEET TO A POINT FOR CORNER AND THE BEGINNING OF A TANGENT CURVE TO THE RIGHT HAVING A CENTRAL ANGLE OF 09 DEGREES 07 MINUTES 55 SECONDS, A RADIUS OF 512.96 FEET, AND A LONG CHORD THAT BEARS SOUTH 48 DEGREES 25 MINUTES 23 SECONDS EAST A DISTANCE OF 81 67 FEET;

ALONG SAID TANGENT CURVE TO THE RIGHT, AN ARC DISTANCE OF 81 76 FEET TO THE **POINT OF BEGINNING** AND CONTAINING 1 000 ACRES OF LAND, MORE OR LESS.



Michael J Bailey
01/03/02

Denton County
Cynthia Mitchell
County Clerk
Denton, TX 76202

Instrument Number: 2006-111748

As

Recorded On: September 11, 2006 **Warranty Deed**

Parties: BIGGERS RICHARD **Billable Pages: 4**

To **Number of Pages: 4**

Comment:

**** Examined and Charged as Follows: ****

Warranty Deed	28.00
Total Recording:	**28.00**

********** THIS PAGE IS PART OF THE INSTRUMENT **********

Any provision herein which restricts the Sale, Rental or use of the described REAL PROPERTY because of color or race is invalid and unenforceable under federal law.

File Information:

Document Number: 2006-111748
Receipt Number: 321635
Recorded Date/Time: September 11, 2006 09:26A
User / Station: P Sallee - Cash Station 4

Record and Return To:

JOSH J KAHN
COATS ROSE YALE RYMAN & LEE PC
3 GREENWAY PLAZA SUITE 2000
HOUSTON TX 77046

THE STATE OF TEXAS }
COUNTY OF DENTON }

I hereby certify that this Instrument was FILED in the File Number sequence on the date/time printed heron, and was duly RECORDED in the Official Records of Denton County, Texas.

CMitchell

County Clerk
Denton County, Texas

SPECIAL WARRANTY DEED

THE STATE OF TEXAS §
§ KNOW ALL MEN BY THESE PRESENTS:
COUNTY OF DENTON §

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OF THE FOLLOWING INFORMATION FORM THIS INSTRUMENT BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVERS LICENSE NUMBER.

THAT Richard Biggers (hereinafter designated "Grantor"), for and in consideration of the sum of Ten Dollars ($10.00) and other good and valuable consideration cash in hand paid by MAW Cross Oak Ranch, LP, a Texas limited partnership (hereinafter designated "Grantee"), with an address of 13455 Noel Road, 23rd Floor, Dallas, Texas 75240, the receipt of which is hereby acknowledged, has granted, sold and conveyed, and by these presents does hereby grant, sell and convey unto Grantee, an undivided twenty percent (20%) interest in all of the real property in Denton County, Texas, described in Exhibit "A" attached hereto.

This Deed and conveyance is expressly made subject to all liens, encumbrances, conditions and other exceptions appearing of record in the office of the County Clerk of Denton County, Texas, and applicable to such property.

TO HAVE AND TO HOLD the above-described premises, together with all and singular the rights and appurtenances thereto in anywise belonging, unto the Grantee, its heirs and assigns, forever; and Grantor does hereby bind himself and his successors, to Warrant and Forever Defend all and singular the premises unto the said Grantee, its heirs and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof, by, through or under Grantor, but not otherwise.

EXECUTED as of the 15th day of June, 2005.

GRANTOR:

Richard Biggers

THE STATE OF TEXAS §
§
COUNTY OF DENTON §

This instrument was acknowledged before me on the 15th day of June, 2005 by Richard Biggers in the capacity therein stated.

(Seal)

JOSH J. KAHN
Notary Public, State of Texas
My Commission Expires 05/16/2006

Notary Public in and for the
State of T E X A S

Josh J Kahn
Name Printed or Typed
My Commission Expires: 5/16/2006

After Recording Please Return To:
Coats, Rose, Yale, Ryman & Lee, P.C.
Attn: Josh Kahn
3 Greenway Plaza, Suite 2000
Houston, Texas 77046

Exhibit "A"

PROPERTY DESCRIPTION
1.000 ACRE

BEING A 1.000 ACRE TRACT OF LAND SITUATED IN THE MARCELLA JONES SURVEY, ABSTRACT NO. 662, DENTON COUNTY, TEXAS, AND BEING PART OF A 759.199 ACRE TRACT OF LAND, CONVEYED TO MAR-TOP RANCH, LTD. BY DEED RECORDED IN COUNTY CLERK'S FILE NO. 2001-R0092648, DENTON COUNTY, TEXAS, SAID 1.000 ACRE TRACT, WITH REFERENCE BEARING NORTH 00 DEGREES 15 MINUTES 16 SECONDS WEST BEING THE MONUMENTED SOUTHWEST LINE OF SAID 759.199 ACRE TRACT, BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

COMMENCING AT A 1/2" IRON ROD FOUND FOR THE SOUTHWEST CORNER OF SAID 759.199 ACRE TRACT, SAID POINT BEING AT THE INTERSECTION OF NAYLOR ROAD (A VARIABLE WIDTH PRESCRIPTIVE RIGHT-OF-WAY) AND MARTOP ROAD (A VARIABLE WIDTH PRESCRIPTIVE RIGHT-OF-WAY);

THENCE, SOUTH 89 DEGREES 59 MINUTES 59 SECONDS EAST, ALONG THE SOUTH LINE OF AFORESAID 759.199 ACRE TRACT, A DISTANCE OF 4410.48 FEET TO A 1/2" IRON ROD FOUND FOR THE SOUTHEAST CORNER OF AFORESAID 759.199 ACRE TRACT AND BEING IN AFORESAID MARTOP ROAD;

THENCE, OVER AND ACROSS AFORESAID 759.199 ACRE TRACT, THE FOLLOWING COURSES AND DISTANCES:

NORTH 50 DEGREES 33 MINUTES 24 SECONDS WEST, A DISTANCE OF 78.70 FEET TO A POINT FOR CORNER AND THE **POINT OF BEGINNING;**

NORTH 89 DEGREES 59 MINUTES 59 SECONDS WEST, A DISTANCE OF 329.96 FEET TO A POINT FOR CORNER;

NORTH 00 DEGREES 00 MINUTES 01 SECONDS EAST, A DISTANCE OF 256.87 FEET TO A POINT FOR CORNER AND THE BEGINNING OF A NON-TANGENT CURVE TO THE LEFT HAVING A CENTRAL ANGLE OF 00 DEGREES 19 MINUTES 22 SECONDS, A RADIUS OF 637.78 FEET, AND A LONG CHORD THAT BEARS SOUTH 52 DEGREES 49 MINUTES 45 SECONDS EAST A DISTANCE OF 3.59 FEET;

ALONG SAID NON-TANGENT CURVE TO THE LEFT, AN ARC DISTANCE OF 3.59 FEET TO A POINT FOR CORNER;

SOUTH 52 DEGREES 59 MINUTES 32 SECONDS EAST, A DISTANCE OF 333.10 FEET TO A POINT FOR CORNER AND THE BEGINNING OF A TANGENT CURVE TO THE RIGHT HAVING A CENTRAL ANGLE OF 09 DEGREES 07 MINUTES 55 SECONDS, A RADIUS OF 512.96 FEET, AND A LONG CHORD THAT BEARS SOUTH 48 DEGREES 25 MINUTES 23 SECONDS EAST A DISTANCE OF 81.67 FEET;

ALONG SAID TANGENT CURVE TO THE RIGHT, AN ARC DISTANCE OF 81.76 FEET TO THE **POINT OF BEGINNING** AND CONTAINING 1 000 ACRES OF LAND, MORE OR LESS.

MICHAEL J. BAITUP
5774

Michael J. Baitup
01/03/02

Denton County
Cynthia Mitchell
County Clerk
Denton, TX 76202

Instrument Number: 2006-111749

As

Recorded On: September 11, 200€ **Warranty Deed**

Parties: WALLACE TODD **Billable Pages: 4**

To **Number of Pages: 4**

Comment:

**** Examined and Charged as Follows: ****

Warranty Deed	28.00
Total Recording:	**28.00**

************** THIS PAGE IS PART OF THE INSTRUMENT **************

Any provision herein which restricts the Sale, Rental or use of the described REAL PROPERTY because of color or race is invalid and unenforceable under federal law.

File Information:

Document Number: 2006-111749
Receipt Number: 321635
Recorded Date/Time: September 11, 2006 09:26A
User / Station: P Sallee - Cash Station 4

Record and Return To:

JOSH J KAHN
COATS ROSE YALE RYMAN & LEE PC
3 GREENWAY PLAZA SUITE 2000
HOUSTON TX 77046

THE STATE OF TEXAS }
COUNTY OF DENTON }

I hereby certify that this Instrument was FILED in the File Number sequence on the date/time printed heron, and was duly RECORDED in the Official Records of Denton County, Texas

County Clerk
Denton County, Texas

SPECIAL WARRANTY DEED

THE STATE OF TEXAS §
§ KNOW ALL MEN BY THESE PRESENTS:
COUNTY OF DENTON §

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OF THE FOLLOWING INFORMATION FORM THIS INSTRUMENT BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVERS LICENSE NUMBER.

THAT Todd Wallace (hereinafter designated "Grantor"), for and in consideration of the sum of Ten Dollars ($10.00) and other good and valuable consideration cash in hand paid by MAW Cross Oak Ranch, LP, a Texas limited partnership (hereinafter designated "Grantee"), with an address of 13455 Noel Road, 23rd Floor, Dallas, Texas 75240, the receipt of which is hereby acknowledged, has granted, sold and conveyed, and by these presents does hereby grant, sell and convey unto Grantee, an undivided twenty percent (20%) interest in all of the real property in Denton County, Texas, described in Exhibit "A" attached hereto

This Deed and conveyance is expressly made subject to all liens, encumbrances, conditions and other exceptions appearing of record in the office of the County Clerk of Denton County, Texas, and applicable to such property.

TO HAVE AND TO HOLD the above-described premises, together with all and singular the rights and appurtenances thereto in anywise belonging, unto the Grantee, its heirs and assigns, forever; and Grantor does hereby bind himself and his successors, to Warrant and Forever Defend all and singular the premises unto the said Grantee, its heirs and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof, by, through or under Grantor, but not otherwise.

EXECUTED as of the 23rd day of February, 2006.

GRANTOR:

Todd Wallace

THE STATE OF TEXAS §
§
COUNTY OF DENTON §

This instrument was acknowledged before me on the 23rd day of February, 2006 by Todd Wallace in the capacity therein stated.

JOSH J KAHN
Notary Public, State of Texas
My Commission Expires
June 08, 2010

Notary Public in and for the
State of T E X A S

Josh J. Kahn
Name Printed or Typed
My Commission Expires 6/8/2010

After Recording Please Return To
Coats, Rose, Yale, Ryman & Lee, P C
Attn Josh Kahn
3 Greenway Plaza, Suite 2000
Houston, Texas 77046

Exhibit "A"

PROPERTY DESCRIPTION
1.000 ACRE

BEING A 1.000 ACRE TRACT OF LAND SITUATED IN THE MARCELLA JONES SURVEY, ABSTRACT NO. 662, DENTON COUNTY, TEXAS, AND BEING PART OF A 759.199 ACRE TRACT OF LAND, CONVEYED TO MAR-TOP RANCH, LTD. BY DEED RECORDED IN COUNTY CLERK'S FILE NO. 2001-R0092648, DENTON COUNTY, TEXAS, SAID 1.000 ACRE TRACT, WITH REFERENCE BEARING NORTH 00 DEGREES 15 MINUTES 16 SECONDS WEST BEING THE MONUMENTED SOUTHWEST LINE OF SAID 759.199 ACRE TRACT, BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

COMMENCING AT A 1/2" IRON ROD FOUND FOR THE SOUTHWEST CORNER OF SAID 759.199 ACRE TRACT, SAID POINT BEING AT THE INTERSECTION OF NAYLOR ROAD (A VARIABLE WIDTH PRESCRIPTIVE RIGHT-OF-WAY) AND MARTOP ROAD (A VARIABLE WIDTH PRESCRIPTIVE RIGHT-OF-WAY);

THENCE, SOUTH 89 DEGREES 59 MINUTES 59 SECONDS EAST, ALONG THE SOUTH LINE OF AFORESAID 759.199 ACRE TRACT, A DISTANCE OF 4410.48 FEET TO A 1/2" IRON ROD FOUND FOR THE SOUTHEAST CORNER OF AFORESAID 759.199 ACRE TRACT AND BEING IN AFORESAID MARTOP ROAD;

THENCE, OVER AND ACROSS AFORESAID 759.199 ACRE TRACT, THE FOLLOWING COURSES AND DISTANCES:

NORTH 50 DEGREES 33 MINUTES 24 SECONDS WEST, A DISTANCE OF 78.70 FEET TO A POINT FOR CORNER AND THE **POINT OF BEGINNING;**

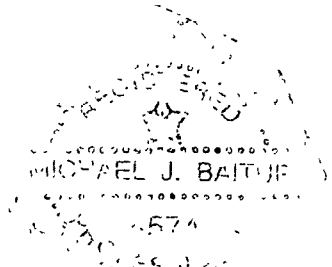
NORTH 89 DEGREES 59 MINUTES 59 SECONDS WEST, A DISTANCE OF 329.96 FEET TO A POINT FOR CORNER;

NORTH 00 DEGREES 00 MINUTES 01 SECONDS EAST, A DISTANCE OF 256.87 FEET TO A POINT FOR CORNER AND THE BEGINNING OF A NON-TANGENT CURVE TO THE LEFT HAVING A CENTRAL ANGLE OF 00 DEGREES 19 MINUTES 22 SECONDS, A RADIUS OF 637.78 FEET, AND A LONG CHORD THAT BEARS SOUTH 52 DEGREES 49 MINUTES 45 SECONDS EAST A DISTANCE OF 3.59 FEET;

ALONG SAID NON-TANGENT CURVE TO THE LEFT, AN ARC DISTANCE OF 3.59 FEET TO A POINT FOR CORNER;

SOUTH 52 DEGREES 59 MINUTES 32 SECONDS EAST, A DISTANCE OF 333.10 FEET TO A POINT FOR CORNER AND THE BEGINNING OF A TANGENT CURVE TO THE RIGHT HAVING A CENTRAL ANGLE OF 09 DEGREES 07 MINUTES 55 SECONDS, A RADIUS OF 512.96 FEET, AND A LONG CHORD THAT BEARS SOUTH 48 DEGREES 25 MINUTES 23 SECONDS EAST A DISTANCE OF 81 67 FEET;

ALONG SAID TANGENT CURVE TO THE RIGHT, AN ARC DISTANCE OF 81.76 FEET TO THE **POINT OF BEGINNING** AND CONTAINING 1.000 ACRES OF LAND, MORE OR LESS



01/03/02

PELOTON
LAND SOLUTIONS

CORPORATE OFFICE
9800 Hillwood Pkwy.
Suite 250
Fort Worth, Texas, 76177
817.562.3350

DENTON COUNTY MUNICIPAL UTILITY DISTRICT NO. 4
(TANNERY DAM)
ACCOUNTING PLAN
July 6, 2021

INTRODUCTION

This memorandum describes the accounting plan submitted for Denton County Municipal Utility District No. 4. (Tannery Dam). The application authorizes the following:

- Storage of supplemental water in one impoundment with a storage capacity of 104.03 acre-feet and a surface area of 13.17 acres.

The applicant will not be diverting any state waters and will provide supplemental water from private groundwater produced by the applicant to offset evaporation losses.

The accounting plan assumes that storage in the reservoirs is constant. Change in storage is minimal and can be ignored. Thus, this accounting plan is premised on a fundamental mass balance equation of water inflows and outflows from the impoundment:

Groundwater = Evaporation Losses

The applicant has installed meters on the discharges of groundwater and will read those meters daily. The accounting plan will use the 75th percentile evaporation amount for the local area for the period from 1954 through 2020, calculated monthly, as published by the Texas Water Development Board (TWDB).

ELEMENTS OF THE ACCOUNTING PLAN

The accounting plan has been created as an Excel spreadsheet. The spreadsheet includes cells in which the applicant will insert meter readings. The spreadsheet includes other cells that contain the default evaporation rate based on the 75th percentile evaporation amount for the local area for the period from 1954 through 2020, calculated monthly, as published by the Texas Water Development Board. The accounting plan covers one calendar year, and a new Excel document will need to be created for each year.

There are 16 tabs in the accounting plan spreadsheet:

1. ANNUAL Tab – summarizes groundwater discharge volume, evaporative losses, and supplemental groundwater discharges.
2. Monthly Tabs (JAN through DEC) – the applicant will enter daily readings of groundwater discharge.

3. EVAP DATA Tab – default evaporation rates.
4. TWDB PAN LAKE FACTOR Tab – data from the TWDB for Monthly Pan Coefficients.
5. TWDB EVAP Tab – data from TWDB for monthly lake surface evaporation for Quadrangle 411.

ANNUAL TAB (Updated automatically based on data entered in monthly tabs, no data entry is required by the applicant.)

The ANNUAL tab calculates a mass balance for the impoundment covered by this application. All figures on the ANNUAL tab are populated from the monthly tabs or calculated in the ANNUAL tab, so the applicant will not enter any data into the ANNUAL tab. The exception is in cell B6, where the applicant enters the current year.

The ANNUAL tab contains columns (A through F) and 14 rows. The columns in the table are as follows:

	A	B	C	D	E	F
1	Denton Co. MUD No. 4 (Tannery Dam)					
2	Water Accounting Record					
3	Annual Tab					
4						
5						
6	**Year**					
7						
8	**Month**	**Groundwater Volume (ac-ft)**	**Default Evaporation (ac-ft)**	**Calculated Net Inflow (ac-ft)**	**Depleted Net Inflow (ac-ft)**	**Supplemental Groundwater Release (ac-ft)**
9	January	0.00	3.41	3.41	3.41	3.41
10	February	0.00	4.20	4.20	4.20	4.20
11	March	0.00	6.51	6.51	6.51	6.51
12	April	0.00	8.10	8.10	8.10	8.10
13	May	0.00	9.30	9.30	9.30	9.30
14	June	0.00	10.80	10.80	10.80	10.80
15	July	0.00	13.02	13.02	13.02	13.02
16	August	0.00	11.78	11.78	11.78	11.78
17	September	0.00	9.00	9.00	9.00	9.00
18	October	0.00	6.82	6.82	6.82	6.82
19	November	0.00	4.50	4.50	4.50	4.50
20	December	0.00	3.72	3.72	3.72	3.72
21	Total	0.00	91.16	91.16	91.16	91.16
22						

Column A — Month. Labels for each month in a separate row. Corresponds to Monthly Tabs (JAN through DEC) within the spreadsheet.

Column B — Groundwater Volume (ac-ft). Contains the monthly Groundwater Volume in acre-feet (This number comes from Cell B41, which is a conversion of the Sum of Column B "Groundwater Volume (gal)" to acre-feet in each Monthly Tab (JAN

through DEC). This number will populate automatically once the Monthly Tabs are completed.)

Column C — Default Evaporation (ac-ft). Contains the monthly evaporation imported from the respective monthly worksheet (This number comes from Cell E41, which is a conversion of the Sum of Column E "Default Evaporation (gal)" to acre-feet in each Monthly tab (JAN through DEC). This number will populate automatically once the Monthly Tabs are completed.)

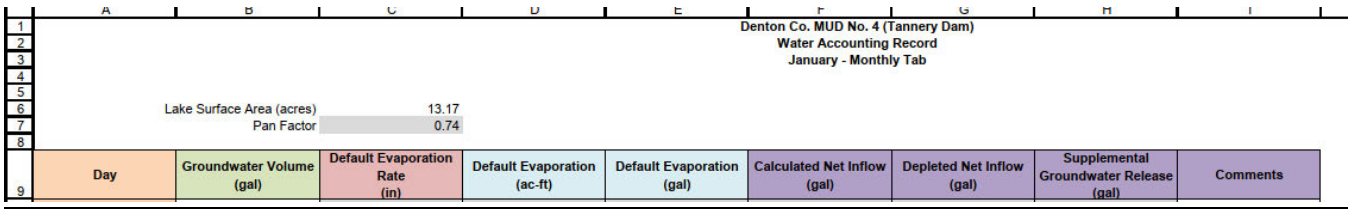
Column D — Calculated Net Inflow (ac-ft). Contains the monthly calculated net inflows in acre-feet. (This number comes from Cell F41, which is a conversion of the Sum of Column F "Calculated Net Inflow (gal)" to acre-feet in each Monthly Tab (JAN to DEC). This number will populate automatically once the Monthly Tabs are completed).

Column E — Depleted Net Inflow (ac-ft). Contains the monthly depleted net inflows in acre-feet. (This number comes from Cell G41, which is a conversion of the Sum of Column G "Depleted Net Inflow (gal)" to acre-feet in each Monthly Tab (JAN to DEC). This number will populate automatically once the Monthly Tabs are completed).

Column F — Supplemental Groundwater Release (ac-ft). Contains the monthly supplemental groundwater release in acre-feet. (This number comes from Cell H41, which is a conversion of the Sum of Column H "Supplemental Groundwater Release (gal)" to acre-feet in each Monthly Tab (JAN to DEC). This number will populate automatically once the Monthly Tabs are completed).

MONTHLY TABS (Updated monthly by applicant)

The accounting plan includes 12 monthly spreadsheets, labeled JAN through DEC. Each worksheet contains nine columns (A through I), but the number of rows varies between 28 and 31 based on the number of days in the month. The applicant will enter daily the groundwater volume in gallons into Column B "Groundwater Volume (gal). All other cells will be filled automatically based on those entries.



Denton Co. MUD No. 4 (Tannery Dam)
Water Accounting Record
January - Monthly Tab

Lake Surface Area (acres) 13.17
Pan Factor 0.74

Day	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments

Column A Day. Lists the day of the month. **No data entry is required by the applicant.**

Column B Groundwater Volume (gal). Cells for the applicant to enter daily meter readings from the water well meter. Water well meter records used in gallons. **Applicant to read the meter and enter the amount of water (in gallons) discharged into pond daily.**

Day	Groundwater Volume (gal)
1	
2	
3	
4	
5	
6	

Column C Default Evaporation Rate (in). This column displays the 75th percentile daily pan rate from Column D "Daily Pan Rate (in)" of the EVAP DATA Worksheet. **No data entry is required by the applicant.**

Column D Default Evaporation (ac-ft). Calculated Default Evaporation obtained by converting the Default Evaporation Rate in Column C to feet and multiplying it by the total surface area of the lake in cell C6 (Column C "Default Evaporation Rate (in) divided by 12, to convert to feet, multiplied by C6 Lake Surface Area (acres). **No data entry is required by the applicant.**

Column E — Default Evaporation (gal). Calculated Default Evaporation in gallons obtained by converting the Column D Default Evaporation (ac-ft) multiplied by 325851 gallons per acre-foot. **No data entry is required by the applicant.**

Column F — Calculated Net Inflow (gal). The calculated net inflow is determined by subtracting the groundwater inflow to the lake (Column B) from the default evaporation (Column E). If the calculated net inflow is negative, then there is more inflow into the impoundment than can be held, and this amount flows downstream. (Column E "Default Evaporation (gal)" minus Column B "Groundwater Volume (gal)."**)** **No data entry is required by the applicant.**

Column G — Depleted Net Inflow (gal). The depleted net inflow is the positive calculated net inflow from Column F. If the "Calculated Net Inflow" is less than zero, this value is equal to zero. The depleted net inflow represents the amount needed to be made up through supplemental groundwater pumping. (The largest value of Column F "Calculated Net Inflow (gal)."**)** **No data entry is required by the applicant.**

Column H — Supplemental Groundwater Release (gal). The supplemental groundwater release (gal) (Column H) is the sum of the depleted net inflow (gal) (Column G). The applicant should review these numbers biweekly in December, January, and February (i.e., winter months) when evapotranspiration rates are typically low. For the remainder of the year (i.e., spring and summer months), the applicant should review these numbers on a weekly basis when evapotranspiration rates typically are higher. Equations to sum the amount of supplemental groundwater released on a biweekly/weekly basis are included in the appropriate locations in the Monthly Tabs. Reviewing on a biweekly/weekly basis will give the applicant the opportunity to determine if an adequate amount of groundwater is being discharged, and if not, supplemental groundwater volumes can be provided into the system to meet the requirement of the permit.

If a positive number is present in the supplemental groundwater release (gal) (Column H), then the applicant needs to increase the volume of groundwater on future releases that month to reduce the values in Column H to zero. Discharges of supplemental groundwater volumes should be recorded in Column B, and a note with the amount would be included in Comments (Column I). **Applicant to review supplemental groundwater number. Record a supplemental groundwater discharges and enter the amount of water (in gallons) discharged into the pond in Column B. Supplemental groundwater discharges to be combined with normal groundwater volume discharges.**

Column I — Comments. This Column allows the applicant to enter any relevant notes and observations. **Applicant to enter comments daily.**

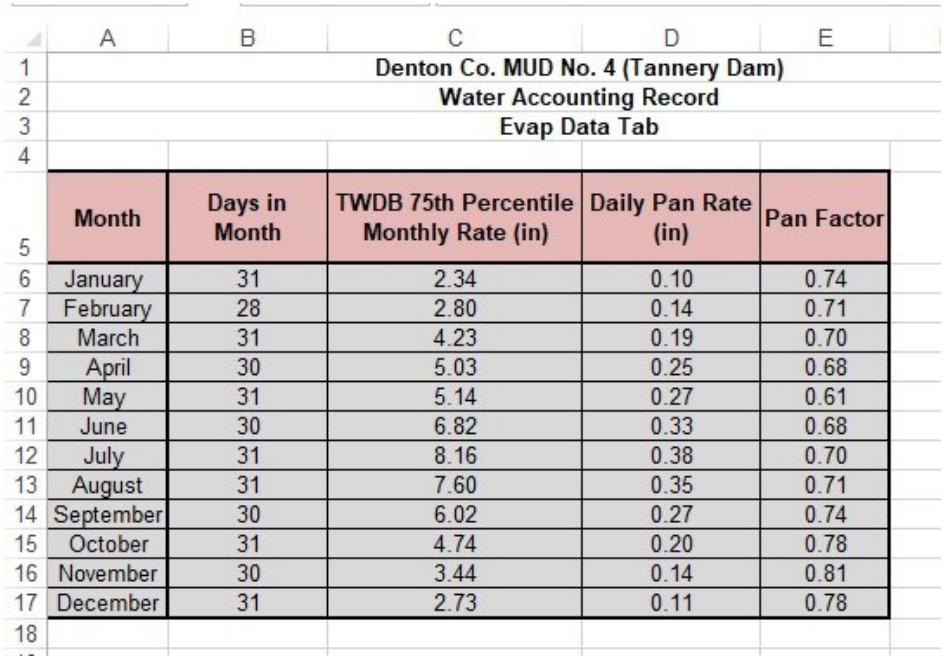
Denton Co. MUD No. 4 (Tannery Dam)
Water Accounting Record
January - Monthly Tab

Lake Surface Area (acres): 13.17
Pan Factor: 0.74

Day	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments
1		0.10	0.11	35844	35844	35844		
2		0.10	0.11	35844	35844	35844		
3		0.10	0.11	35844	35844	35844		
4		0.10	0.11	35844	35844	35844		
5		0.10	0.11	35844	35844	35844		
6		0.10	0.11	35844	35844	35844		
7		0.10	0.11	35844	35844	35844		
8		0.10	0.11	35844	35844	35844		
9		0.10	0.11	35844	35844	35844		
10		0.10	0.11	35844	35844	35844		
11		0.10	0.11	35844	35844	35844		
12		0.10	0.11	35844	35844	35844		
13		0.10	0.11	35844	35844	35844		
14		0.10	0.11	35844	35844	35844	501816	
15		0.10	0.11	35844	35844	35844		
16		0.10	0.11	35844	35844	35844		
17		0.10	0.11	35844	35844	35844		
18		0.10	0.11	35844	35844	35844		
19		0.10	0.11	35844	35844	35844		
20		0.10	0.11	35844	35844	35844		
21		0.10	0.11	35844	35844	35844		
22		0.10	0.11	35844	35844	35844		
23		0.10	0.11	35844	35844	35844		
24		0.10	0.11	35844	35844	35844		
25		0.10	0.11	35844	35844	35844		
26		0.10	0.11	35844	35844	35844		
27		0.10	0.11	35844	35844	35844		
28		0.10	0.11	35844	35844	35844	501816	
29		0.10	0.11	35844	35844	35844		
30		0.10	0.11	35844	35844	35844		
31		0.10	0.11	35844	35844	35844	107532	
Total (ac-ft)	0.00	3.40	3.41	3.41	3.41	3.41	3.41	
Total (gal)	0	1,108,627	1,111,152	1,111,164	1,111,164	1,111,164	1,111,164	

EVAP DATA TAB (There are no adjustments to be made to this tab by the applicant)

The EVAP DATA worksheet contains default data. The worksheet includes five columns, all of which have been populated with data. The applicant will not enter any data in the EVAP DATA worksheet. **There are no adjustments to be made to this tab by the applicant.**



Denton Co. MUD No. 4 (Tannery Dam)
Water Accounting Record
Evap Data Tab

Month	Days in Month	TWDB 75th Percentile Monthly Rate (in)	Daily Pan Rate (in)	Pan Factor
January	31	2.34	0.10	0.74
February	28	2.80	0.14	0.71
March	31	4.23	0.19	0.70
April	30	5.03	0.25	0.68
May	31	5.14	0.27	0.61
June	30	6.82	0.33	0.68
July	31	8.16	0.38	0.70
August	31	7.60	0.35	0.71
September	30	6.02	0.27	0.74
October	31	4.74	0.20	0.78
November	30	3.44	0.14	0.81
December	31	2.73	0.11	0.78

Column A Month. Lists each month.

Column B Days in Month. Lists the days in each month. End-user to modify as needed to accommodate for leap year.

Column C TWDB 75th Percentile Monthly Rate (in). Lists the 75th percentile evaporation rate for each month, expressed in inches. This column's data was obtained from the precipitation and lake evaporation database published by the Texas Water Development Board (Row 78 "75th Percentile" of TWDB EVAP Tab within the spreadsheet) (TWDB, Lake Evaporation and Precipitation Data, Quadrant 411, https://waterdatafortexas.org/lake-evaporation-rainfall).

Column D Daily Pan Rate (in). Expresses the evaporation rate as a daily rate from an evaporation pan, calculated by dividing the monthly rate in Column C by the number of days in the month and then dividing the result by the monthly pan factors (Column C "TWDB 75th Percentile monthly Rate (in) divided by Column B "Days in Month" divided by Column E "Pan Factor." These daily rates will be used as the default evaporation rate.

Column E — Pan Factor. The TWDB pan factor for this area (Row 62 "Quad 411" of TWDB Pan Lake Factor) tab within the spreadsheet.

TWDB PAN LAKE FACTOR TAB (There are no adjustments to be made to this tab by the applicant)
The TWDB PAN LAKE FACTOR worksheet contains the Texas Water Development Board pan factors for Texas (TWDB, Lake Evaporation and Precipitation Data, Pan-to-Lake- Coefficients, Quad 411 Monthly Pan factors, https://waterdatafortexas.org/lake-evaporation-rainfall).

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Denton Co. MUD No. 4 (Tannery Dam)													
2	Water Accounting Record													
3	TWDB Pan Lake Factor Tab													
4	TWDB Link													
5	https://waterdatafortexas.org/lake-evaporation-rainfall													
6														
7	Texas Water Development Board													
8	Monthly Pan Factor Used in Evap													
9	Quad	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
61	410	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
62	411	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71
63	412	0.75	0.72	0.71	0.69	0.62	0.69	0.71	0.72	0.75	0.79	0.82	0.79	0.72
64	413	0.76	0.73	0.72	0.71	0.65	0.71	0.72	0.73	0.76	0.79	0.81	0.79	0.73

TWDB EVAP TAB (There are no adjustments to be made to this tab by the applicant)
The TWDB EVAP worksheet contains the Texas Water Development Board monthly lake surface evaporation rates for Quadrangle 411 from 1954 to 2020 (TWDB, Lake Evaporation and Precipitation Data, Quadrant 411, https://waterdatafortexas.org/lake-evaporation-rainfall).

Row 78 — 75th Percentile. Calculates the 75th percentile evaporation rate for each month from 1954 to 2020.

70	411	2014	1.84	2.43	2.07	5.33	5.84	6.00	6.54	7.23	5.89	4.84	3.51	1.97	53.72
71	411	2015	1.64	2.82	2.92	6.32	5.58	8.95	7.57	8.24	6.41	5.40	3.48	3.66	63.15
72	411	2016	2.12	3.32	4.03	4.55	4.67	6.72	8.50	4.63	4.00	4.77	3.47	1.93	52.88
73	411	2017	2.75	3.75	4.32	4.55	4.76	5.39	7.19	5.24	5.34	4.27	2.88	2.79	53.28
74	411	2018	2.39	1.82	3.90	3.98	5.60	7.17	7.92	6.60	3.33	2.88	3.33	2.56	51.94
75	411	2019	2.12	2.05	3.32	4.64	4.43	5.52	7.09	6.97	6.21	4.23	2.15	1.97	50.85
76	411	2020	1.71	2.53	3.00	3.92	4.31	6.39	6.35	7.16	3.55	3.53	2.78	2.8	48.19
77															
78	75th Percentile:		2.34	2.80	4.23	5.03	5.14	6.82	8.16	7.60	6.02	4.74	3.44	2.73	55.08
79															
80															

Denton County Municipal Utility District No. 4, Denton County Municipal Utility District No. 5, and Eddie Prieto WRPERM 13774

August 16, 2021

Accounting plan with text file available upon request

Version 1.0

Contact Mr. Chris Kozlowski at (512) 239-1801

Jenna Rollins

Subject:	Denton County Municipal Utility District No. 4 and No. 5 and Eddie Prieto, WRPERM 13774 - RFI Response Meeting
Location:	Microsoft Teams Meeting
Start:	Tue 8/10/2021 9:00 AM
End:	Tue 8/10/2021 9:30 AM
Recurrence:	(none)
Meeting Status:	Meeting organizer
Organizer:	Jenna Rollins
Required Attendees:	Jenny Torres; Kathy Alexander; Chris Kozlowski; Cheryl Covone; Brooke McGregor; Lindi Weber
Optional Attendees:	Chris Hamilton

Good afternoon,

Please see the updated time and date for this meeting. Please let me know if there are any conflicts so I can reschedule. I apologize for any inconveniences. Thank you.

This is a meeting with the applicant to discuss the RFI response submitted for the Denton County MUD No. 4 and No. 5 and Eddie Prieto application No. 13774.

Thank you,
Jenna Rollins, Project Manager
Water Rights Permitting Team
Water Rights Permitting and Availability Section
512-239-1845

Microsoft Teams meeting

Join on your computer or mobile app
Click here to join the meeting

Learn More | Meeting options

Jenna Rollins

From: Lindi Weber [redacted]
Sent: Friday, August 6, 2021 10:39 AM
To: Jenna Rollins
Subject: RE: Denton Co MUD No. 4 and No. 5 and Eddie Prieto, WRPERM 13774

Jenna,

We would be available all day Monday or Tuesday between 8 to 10:30am or 2 to 5pm.

Thanks,
Lindi

PELOTON LAND SOLUTIONS
Lindi Weber
FORT WORTH OFFICE
9800 Hillwood Parkway, Suite 250,
Fort Worth, Texas 76177
[e] [redacted]
[o] 817.562.3350
[c] 214.458.5757
www.pelotonland.com
TBPE Firm No. 12207 | TBPLS Firm No. 10177700

From: Jenna Rollins <Jenna.Rollins@tceq.texas.gov>
Sent: Friday, August 6, 2021 10:13 AM
To: Lindi Weber [redacted]
Subject: Denton Co MUD No. 4 and No. 5 and Eddie Prieto, WRPERM 13774

Good morning Ms. Weber,

We would like to schedule a brief meeting via Microsoft Teams next week to discuss the RFI response submitted for the Denton Co. MUD No. 4 and No. 5 and Eddie Prieto application No. 13774. Please let me know the date and time that would work best for you.

Thank you,
Jenna Rollins, Project Manager
Water Rights Permitting Team
Water Rights Permitting and Availability Section
512-239-1845

Jenna Rollins

From: Jenna Rollins
Sent: Thursday, August 5, 2021 1:54 PM
To: Lindi Weber
Subject: RE: Denton County Municipal Utility District No. 4 and No. 5 and Eddie Prieto, WRPERM 13774

Ms. Weber,

Our tech staff is currently reviewing the partial response to the RFI. If any additional information is needed, we can set up a call if you would like.

Thank you,
Jenna Rollins, Project Manager
Water Rights Permitting Team
Water Rights Permitting and Availability Section
512-239-1845

From: Lindi Weber [redacted]
Sent: Thursday, August 5, 2021 1:33 PM
To: Jenna Rollins <Jenna.Rollins@tceq.texas.gov>
Subject: RE: Denton County Municipal Utility District No. 4 and No. 5 and Eddie Prieto, WRPERM 13774

Jenna,

So if you have a question we can not set-up a call with the commentor to clear that up?

Thanks,
Lindi

PELOTON LAND SOLUTIONS
Lindi Weber
FORT WORTH OFFICE
9800 Hillwood Parkway, Suite 250,
Fort Worth, Texas 76177
[e] [redacted]
[o] 817.562.3350
[c] 214.458.5757
www.pelotonland.com
TBPE Firm No. 12207 | TBPLS Firm No. 10177700

From: Jenna Rollins <Jenna.Rollins@tceq.texas.gov>
Sent: Thursday, August 5, 2021 1:24 PM
To: Lindi Weber [redacted]
Subject: RE: Denton County Municipal Utility District No. 4 and No. 5 and Eddie Prieto, WRPERM 13774

Ms. Weber,

Once we receive a complete response to the RFI letter, not including fees, our tech staff will review the response, and we will let you know if any additional information is needed.

Thank you,
Jenna Rollins, Project Manager
Water Rights Permitting Team
Water Rights Permitting and Availability Section
512-239-1845

From: Lindi Weber [redacted]
Sent: Thursday, August 5, 2021 12:11 PM
To: Jenna Rollins <Jenna.Rollins@tceq.texas.gov>
Subject: RE: Denton County Municipal Utility District No. 4 and No. 5 and Eddie Prieto, WRPERM 13774

Jenna,

We have revised the numbers associated comments #1 & 2 from the RFI letter. Would it be possible to send the attached to the commentor and see if we addressed the comments correctly? If we haven't we will probably need to schedule a call with the commentor to get clarification.

We are currently working on getting the information for comment #3 and having a check cut for the fees. But would like to make sure we are on the same page as the commentor on comments #1 & 2 while we work out the remaining comments.

Thanks,
Lindi

PELOTON
LAND SOLUTIONS

Lindi Weber

FORT WORTH OFFICE
9800 Hillwood Parkway, Suite 250,
Fort Worth, Texas 76177

[e] [redacted]
[o] 817.562.3350
[c] 214.458.5757

www.pelotonland.com
TBPE Firm No. 12207 | TBPLS Firm No. 10177700

WORKSHEET 1.0
Quantity, Purpose and Place of Use

1. New Authorizations (Instructions, Page. 16)

Submit the following information regarding quantity, purpose and place of use for requests for new or additional appropriations of State Water or Bed and Banks authorizations:

Quantity (acre-feet) (*Include losses for Bed and Banks*)	**State Water Source (River Basin) or Alternate Source** *each *alternate source* (*and new appropriation based on return flows of others*) *also requires completion of Worksheet 4.0*	**Purpose(s) of Use**	**Place(s) of Use** **requests to move state water out of basin also require completion of Worksheet 1.1 Interbasin Transfer*
104.03	Groundwater from Woodbine Aquifer	Recreation	Oak Point ETJ, Denton County

104.03 acre-feet/year Total amount of water (in acre-feet) to be used annually (*include losses for Bed and Banks applications*)

If the Purpose of Use is Agricultural/Irrigation for any amount of water, provide:

a. Location Information Regarding the Lands to be Irrigated

i) Applicant proposes to irrigate a total of_____acres in any one year. This acreage is all of or part of a larger tract(s) which is described in a supplement attached to this application and contains a total of_____acres in_____County, TX.

ii) Location of land to be irrigated: In the_____Original Survey No. _____, Abstract No._____.

A copy of the deed(s) or other acceptable instrument describing the overall tract(s) with the recording information from the county records must be submitted. Applicant's name must match deeds.
If the Applicant is not currently the sole owner of the lands to be irrigated, Applicant must submit documentation evidencing consent or other documentation supporting Applicant's right to use the land described.

Water Rights for Irrigation may be appurtenant to the land irrigated and convey with the land unless reserved in the conveyance. 30 TAC § 297.81.

WORKSHEET 2.0
Impoundment/Dam Information

This worksheet **is required** for any impoundment, reservoir and/or dam. Submit an additional Worksheet 2.0 for each impoundment or reservoir requested in this application.

If there is more than one structure, the numbering/naming of structures should be consistent throughout the application and on any supplemental documents (e.g. maps).

1. Storage Information (Instructions, Page. 21)

a. Official USGS name of reservoir, if applicable: Tannery Lake

b. Provide amount of water (in acre-feet) impounded by structure at normal maximum operating level: 104.03 acre-feet.

c. The impoundment is on-channel X or off-channel _____ (mark one)

i. Applicant has verified on-channel or off-channel determination by contacting Surface Water Availability Team at (512) 239-4600? **Y / N** N

ii. If on-channel, will the structure have the ability to pass all State Water inflows that Applicant does not have authorization to impound? **Y / N** Y

d. Is the impoundment structure already constructed? **Y / N** Y

i. For already constructed **on-channel** structures:

1. Date of Construction: before 1968

2. Was it constructed to be an exempt structure under TWC § 11.142? **Y / N** Y
   a. If Yes, is Applicant requesting to proceed under TWC § 11.143? **Y / N** Y
   b. If No, has the structure been issued a notice of violation by TCEQ? **Y / N** N/A

3. Is it a U.S. Natural Resources Conservation Service (NRCS) (formerly Soil Conservation Service (SCS)) floodwater-retarding structure? **Y / N** N
   a. If yes, provide the Site No. N/A and watershed project name N/A;
   b. Authorization to close "ports" in the service spillway requested? **Y / N** N/A

ii. For **any** proposed new structures or modifications to structures:

1. Applicant **must** contact TCEQ Dam Safety Section at (512) 239-0326, *prior to submitting an Application.* Applicant has contacted the TCEQ Dam Safety Section regarding the submission requirements of 30 TAC, Ch. 299? **Y / N** Y
   Provide the date and the name of the Staff Person Johnny Cosgrove, March 29, 2021

2. As a result of Applicant's consultation with the TCEQ Dam Safety Section, TCEQ has confirmed that:
   a. No additional dam safety documents required with the Application. **Y / N** Y
   b. Plans (with engineer's seal) for the structure required. **Y / N** Y
   c. Engineer's signed and sealed hazard classification required. **Y / N** Y
   d. Engineer's statement that structure complies with 30 TAC, Ch. 299 Rules required. **Y / N** Y

   Additional dam safety documents can be found in Attachment 5.

WORKSHEET 4.0
DISCHARGE INFORMATION

This worksheet required for any requested authorization to discharge water into a State Watercourse for conveyance and later withdrawal or in-place use. Worksheet 4.1 is also required for each Discharge point location requested. **Instructions Page. 26.** ***Applicant is responsible for obtaining any separate water quality authorizations which may be required and for insuring compliance with TWC, Chapter 26 or any other applicable law.***

a. The purpose of use for the water being discharged will be recreation.

b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 86 % and explain the method of calculation: Taken from the TCEQ water availability model.

Is the source of the discharged water return flows? **Y / N** N If yes, provide the following information:

1. The TPDES Permit Number(s). N/A (attach a copy of the **current** TPDES permit(s))

2. Applicant is the owner/holder of each TPDES permit listed above? **Y / N** N/A

PLEASE NOTE: If Applicant is not the discharger of the return flows, the application should be submitted under Section 1, New or Additional Appropriation of State Water, as a request for a new appropriation of state water. If Applicant is the discharger, then the application should be submitted under Section 3, Bed and Banks.

3. Monthly WWTP discharge data for the past 5 years in electronic format. (Attach and label as "Supplement to Worksheet 4.0").

4. The percentage of return flows from groundwater N/A, surface water ____?

5. If any percentage is surface water, provide the base water right number(s) ____.

c. Is the source of the water being discharged groundwater? **Y / N** Y If yes, provide the following information:

1. Source aquifer(s) from which water will be pumped: Woodbine

2. Any 24 hour pump test for the well if one has been conducted. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See http://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp. Additionally, provide well numbers or identifiers ____.
A 24-hour pump test was conducted with a 2-inch water meter, which resulted in 47 gpm.

3. Indicate how the groundwater will be conveyed to the stream or reservoir.
Piped directly into the reservoir.

4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
Copy of North Texas GCD well permit documentation is provided in Attachment 7.

ci. Is the source of the water being discharged a surface water supply contract? **Y / N** N
If yes, provide the signed contract(s).

cii. Identify any other source of the water N/A

WORKSHEET 4.1
DISCHARGE POINT INFORMATION

This worksheet is required for **each** discharge point. Submit one Worksheet 4.1 for each discharge point. If there is more than one discharge point, the numbering of the points should be consistent throughout the application and on any supplemental documents (e.g. maps). **Instructions, Page 27.**

For water discharged at this location provide:

a. The amount of water that will be discharged at this point is 77.16 acre-feet per year. The discharged amount should include the amount needed for use and to compensate for any losses.

b. Water will be discharged at this point at a maximum rate of 171.4 cfs or _____ gpm.

c. Name of Watercourse as shown on Official USGS maps: unnamed tributary of Cantrell Slough.

d. Zip Code 76227

f. Location of point: In the Cross Oak Ranch PH 3 Original Survey No. Tract 11, Abstract No. SD2551A, Denton County, Texas.

g. Point is at:

Latitude 33.204061 °N, Longitude -96.989347 °W.

Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places

h. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): ArcGIS, ArcMap 10.6

Map submitted must clearly identify each discharge point. See instructions Page. 15.

See project location maps in Attachment 4.

Jenna Rollins

From: Lindi Weber [redacted]
Sent: Thursday, August 5, 2021 8:54 AM
To: Jenna Rollins
Subject: RE: Denton County Municipal Utility District No. 4 and No. 5 and Eddie Prieto, WRPERM 13774

Jenna,

Thanks, we will work on getting this information corrected and back to you before September 7.

Lindi

PELOTON LAND SOLUTIONS
Lindi Weber
FORT WORTH OFFICE
9800 Hillwood Parkway, Suite 250,
Fort Worth, Texas 76177
[e] [redacted]
[o] 817.562.3350
[c] 214.458.5757
www.pelotonland.com
TBPE Firm No. 12207 | TBPLS Firm No. 10177700

From: Jenna Rollins <Jenna.Rollins@tceq.texas.gov>
Sent: Thursday, August 5, 2021 8:24 AM
To: Lindi Weber [redacted]
Subject: Denton County Municipal Utility District No. 4 and No. 5 and Eddie Prieto, WRPERM 13774

Dear Ms. Weber,

Attached is a request for information letter for the Denton County Municipal Utility District No. 4 and No. 5 and Eddie Prieto application No. 13774. Please review and provide a response by September 7, 2021.

Thank you,
Jenna Rollins, Project Manager
Water Rights Permitting Team
Water Rights Permitting and Availability Section
512-239-1845

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

August 5, 2021

Ms. Lindi Weber **VIA-EMAIL**
Peloton Land Solutions, Inc.
9800 Hillwood Pkwy Ste. 250
Fort Worth, Texas 76177

RE: Denton County Municipal Utility District No. 4, Denton County Municipal Utility District No. 5, and Eddie Prieto
WRPERM 13774
CN602590598, CN602650905, CN605908540, RN111291977
Application No. 13774 for a Water Use Permit
Texas Water Code §§ 11.121, 11.143, Requiring Limited Mailed Notice
Unnamed tributary of Cantrell Slough, Trinity River Basin
Denton County

Dear Ms. Weber:

This acknowledges receipt, on July 6, 2021, of the referenced application.

Additional information and fees are required before the application can be declared administratively complete.

1. Confirm the total amount of water to be used annually. Staff notes Worksheet 1.0 does not include the capacity of the reservoir. The quantity in the table on Worksheet 1.0 should equal the capacity of the reservoir. Staff also notes, this should be consistent with the amounts of water to be impounded on Worksheet 2.0.

2. Confirm the total amount of groundwater to be discharged and the rate at which it will be discharged. Staff notes that the Worksheet 4.0 indicates that evaporative losses are 90.25 acre-feet per year and Worksheet 4.1 indicates that 1,054 acre-feet of water per year will be discharged at a rate of 171.4 cfs.

3. Provide an application in the name(s) of all landowners as shown on the deeds; otherwise, proper consent of the application must be provided pursuant to Title 30 Texas Administrative Code (TAC) § 295.11 for the land where the existing dam and reservoir are located. Note, if the applicant has power of condemnation, please indicate such in lieu of providing the requested consent.

   Staff notes that a *Special Warranty Deed* was submitted for a one-acre tract of land in the Marcella Jones Survey, Abstract 662, in Denton County, Texas, owned by Mr. Eddie Prieto. This tract of land is co-owned by MAW Cross Oak Ranch, LP, thus requiring proper consent pursuant to Title 30 TAC § 295.11.

4. Remit fees in the amount of **$411.93** as described below. Please make checks payable to the TCEQ or Texas Commission on Environmental Quality.

Filing Fee (100 - 5,000 acre-feet)	$ 250.00
Recording Fee ($1.25 x 20 pages)	$ 25.00
Storage Fee ($1.00 x 104.03 acre-feet)	$ 104.03
Notice Fee ($0.94 x 35 Water Right Holders)	$ 32.90
TOTAL FEES	$ 411.93
FEES RECEIVED	$ 0.00
BALANCE DUE	$ 411.93

Please provide the requested information and fees by September 7, 2021 or the application may be returned pursuant to 30 TAC § 281.18.

If you have any questions concerning this matter, please contact me via email at jenna.rollins@tceq.texas.gov or by telephone at (512) 239-1845.

Sincerely,

Jenna L. Rollins

Jenna Rollins, Project Manager
Water Rights Permitting Team
Water Rights Permitting and Availability Section

PELOTON
LAND SOLUTIONS

July 6, 2021

Texas Commission on Environmental Quality
Water Availability Division, MC-160
12100 Park 35 Circle
Austin, Texas 78753

RE: Tannery Dam – Water Rights Permitting Application

To Whom it May Concern,

On behalf of Denton County Municipal Utility District No. 4, Peloton Land Solutions, Inc. is submitting a New Appropriation of Sate Water Permitting Application for the Tannery Dam project. The project is located approximately 0.1-mile northeast of the intersection of Naylor Road and Amber Lane in the ETJ of the City of Oak Point, Denton County, Texas.

An Administrative Information Checklist, Administrative Information Report, Technical Information Report, and all other pertinent and required information is enclosed. Once our application has been reviewed, please provide the cost for a mailed notice. We will then provide a check for the full application fee.

Feel free to contact me at the phone number below or via e-mail at lindi.weber@pelotonland.com if you have any questions or need additional information to process this request.

Sincerely,

Lindi Weber

Lindi Weber
Peloton Land Solutions
Office: 817.562.3350
Cell:214-458-5757

Enclosures:
1. Administrative Information Checklist, 2. Administrative Information Report, 3. Technical Information Report, and 4. Attachments 1 through 10

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

TCEQ WATER RIGHTS PERMITTING APPLICATION

ADMINISTRATIVE INFORMATION CHECKLIST

Complete and submit this checklist for each application. See Instructions Page. 5.

APPLICANT(S): Denton County Municipal Utility District No. 4

Indicate whether the following items are included in your application by writing either Y (for yes) or N (for no) next to each item (all items are <u>not</u> required for every application).

Y/N		Y/N	
Y	**Administrative Information Report**	N	**Worksheet 3.0**
Y	Additional Co-Applicant Information	N	Additional W.S 3.0 for each Point
Y	Additional Co-Applicant Signature Pages	N	Recorded Deeds for Diversion Points
Y	Written Evidence of Signature Authority	N	Consent For Diversion Access
Y	**Technical Information Report**	Y	**Worksheet 4.0**
Y	USGS Map (or equivalent)	N	TPDES Permit(s)
Y	Map Showing Project Details	N	WWTP Discharge Data
Y	Original Photographs	Y	24-hour Pump Test
N	Water Availability Analysis	Y	Groundwater Well Permit
Y	**Worksheet 1.0**	Y	Signed Water Supply Contract
N	Recorded Deeds for Irrigated Land	Y	**Worksheet 4.1**
N	Consent For Irrigation Land	Y	**Worksheet 5.0**
N	**Worksheet 1.1**	Y	Addendum to Worksheet 5.0
N	Addendum to Worksheet 1.1	N	**Worksheet 6.0**
N	**Worksheet 1.2**	N	Water Conservation Plan(s)
N	Addendum to Worksheet 1.2	N	Drought Contingency Plan(s)
Y	**Worksheet 2.0**	N	Documentation of Adoption
N	Additional W.S 2.0 for Each Reservoir	Y	**Worksheet 7.0**
Y	Dam Safety Documents	Y	Accounting Plan
N	Notice(s) to Governing Bodies	N	**Worksheet 8.0**
Y	Recorded Deeds for Inundated Land	Y	Fees
Y	Consent For Inundation Land		

For Commission Use Only:
Proposed/Current Water Right Number: _____
Basin: _____ Watermaster area Y/N: _____

ADMINISTRATIVE INFORMATION REPORT

The following information **is required** for **all** new applications and amendments.

****Applicants are strongly encouraged to schedule a pre-application meeting with TCEQ Staff to discuss Applicant's needs prior to submitting an application. Call the Water Rights Permitting Team to schedule a meeting at* (512) 239-4600.**

1. TYPE OF APPLICATION (Instructions, Page. 6)

Indicate, by marking X, next to the following authorizations you are seeking.

X New Appropriation of State Water

_____Amendment to a Water Right *

_____ Bed and Banks

***If you are seeking an amendment to an existing water rights authorization, you must be the owner of record of the authorization. If the name of the Applicant in Section 2, does not match the name of the current owner(s) of record for the permit or certificate or if any of the co-owners is not included as an applicant in this amendment request, your application could be returned. If you or a co-applicant are a new owner, but ownership is not reflected in the records of the TCEQ, submit a change of ownership request (Form TCEQ-10204) prior to submitting the application for an amendment. See Instructions page. 6. Please note that an amendment application may be returned, and the Applicant may resubmit once the change of ownership is complete.**

Please summarize the authorizations or amendments you are seeking in the space below or attach a narrative description entitled "Summary of Request."

A new permit of state water of an existing pond located in the ETJ of Oak Point, Denton, County.

The existing pond had been used for agriculture (i.e. livestock water) in the past and now

encompassed into a residential neighborhood. The discharge point is proposed for the

alternative source of water, which will be groundwater from the Woodbine Aquifer. The purpose

of the use is for recreation.

2. APPLICANT INFORMATION (Instructions, Page. 6)

a. Applicant

Indicate the number of Applicants/Co-Applicants 3
(Include a copy of this section for each Co-Applicant, if any)

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

Denton County Municipal Utility District No. 4

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

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

CN :CN602590598 (leave blank if you do not yet have a CN).

What is the name and title of the person or persons signing the application? Unless an application is signed by an individual applicant, the person or persons must submit written evidence that they meet the signatory requirements in *30 TAC § 295.14*.

First/Last Name: Mr. Brian Runey

Title: President

Have you provided written evidence meeting the signatory requirements in 30 TAC § 295.14, as an attachment to this application? Please see Attachment 1.

What is the applicant's mailing address as recognized by the US Postal Service (USPS)? You may verify the address on the USPS website at https://tools.usps.com/go/ZipLookupAction!input.action.

Name: Denton County MUD No. 4

Mailing Address: 1980 Post Oak Blvd STE 13

City: Houston State: Tx ZIP Code:

Indicate an X next to the type of Applicant:

____Individual	____Sole Proprietorship-D.B.A.
____Partnership	____Corporation
____Trust	____Estate
____Federal Government	____State Government
____County Government	____City Government
X____Other Government	____Other_____

For Corporations or Limited Partnerships, provide:
State Franchise Tax ID Number: 32064411674 SOS Charter (filing) Number: _____

2. APPLICANT INFORMATION (Instructions, Page. 6)

a. Applicant

Indicate the number of Applicants/Co-Applicants 3
(Include a copy of this section for each Co-Applicant, if any)

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

Denton County Municipal Utility District No. 5

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

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

CN : CN602650905 (leave blank if you do not yet have a CN).

What is the name and title of the person or persons signing the application? Unless an application is signed by an individual applicant, the person or persons must submit written evidence that they meet the signatory requirements in *30 TAC § 295.14*.

First/Last Name: Mr. Richard Biggers

Title: President

Have you provided written evidence meeting the signatory requirements in 30 TAC § 295.14, as an attachment to this application? Please see Attachment 2

What is the applicant's mailing address as recognized by the US Postal Service (USPS)? You may verify the address on the USPS website at https://tools.usps.com/go/ZipLookupAction!input.action.

Name: Denton County MUD No. 5

Mailing Address: 1980 Post Oak Blvd, STE 1380

City: Houston State: Tx ZIP Code: 77056

Indicate an X next to the type of Applicant:

____Individual	____Sole Proprietorship-D.B.A.
____Partnership	____Corporation
____Trust	____Estate
____Federal Government	____State Government
____County Government	____City Government
X____Other Government	____Other_____

For Corporations or Limited Partnerships, provide:
State Franchise Tax ID Number: 32064411682 SOS Charter (filing) Number: _____

2. APPLICANT INFORMATION (Instructions, Page. 6)

a. Applicant

Indicate the number of Applicants/Co-Applicants 3
(Include a copy of this section for each Co-Applicant, if any)

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

Eddie Prieto

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

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

CN : N/A (leave blank if you do not yet have a CN).

What is the name and title of the person or persons signing the application? Unless an application is signed by an individual applicant, the person or persons must submit written evidence that they meet the signatory requirements in *30 TAC § 295.14*.

First/Last Name: Mr. Eddie Prieto

Title:

Have you provided written evidence meeting the signatory requirements in 30 TAC § 295.14, as an attachment to this application?

What is the applicant's mailing address as recognized by the US Postal Service (USPS)? You may verify the address on the USPS website at https://tools.usps.com/go/ZipLookupAction!input.action.

Name: Eddie Prieto

Mailing Address: 13455 Noel Road, 23rd Floor

City: Dallas State: Tx ZIP Code: 75240

Indicate an X next to the type of Applicant:

X Individual	___Sole Proprietorship-D.B.A.
___Partnership	___Corporation
___Trust	___Estate
___Federal Government	___State Government
___County Government	___City Government
___Other Government	___Other_____

For Corporations or Limited Partnerships, provide:
State Franchise Tax ID Number: _____SOS Charter (filing) Number: _____

3. APPLICATION CONTACT INFORMATION (Instructions, Page. 9)

If the TCEQ needs additional information during the review of the application, who should be contacted? Applicant may submit their own contact information if Applicant wishes to be the point of contact.

First and Last Name: Lindi Weber

Title: Environmental Scientist

Organization Name: Peloton Land Solutions, Inc

Mailing Address: 9800 Hillwood Pkwy Ste 25(

City: Fort Worth State: Tx ZIP Code: 76177

Phone No.: 214-458-5757 Extension:

Fax No.: N/A E-mail Address: [redacted]

4. WATER RIGHT CONSOLIDATED CONTACT INFORMATION (Instructions, Page. 9)

This section applies only if there are multiple Owners of the same authorization. Unless otherwise requested, Co-Owners will each receive future correspondence from the Commission regarding this water right (after a permit has been issued), such as notices and water use reports. Multiple copies will be sent to the same address if Co-Owners share the same address. Complete this section if there will be multiple owners and **all** owners agree to let one owner receive correspondence from the Commission. Leave this section blank if you would like all future notices to be sent to the address of each of the applicants listed in section 2 above.

I/We authorize all future notices be received on my/our behalf at the following:

First and Last Name: Mr. Brian Runey

Title: President

Organization Name: Denton County MUD No. 4

Mailing Address: 1980 Post Oak Blvd STE 13

City: Houston State: Tx ZIP Code: 77056

Phone No.: 713-850-9000 Extension:

Fax No.: N/A E-mail Address: [redacted]

5. MISCELLANEOUS INFORMATION (Instructions, Page. 9)

a. The application will not be processed unless all delinquent fees and/or penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ are paid in accordance with the Delinquent Fee and Penalty Protocol by all applicants/co-applicants. If you need assistance determining whether you owe delinquent penalties or fees, please call the Water Rights Permitting Team at (512) 239-4600, prior to submitting your application.

1. Does Applicant or Co-Applicant owe any fees to the TCEQ? **Yes / No** No

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

   Account number: Amount past due:

2. Does Applicant or Co-Applicant owe any penalties to the TCEQ? **Yes / No** No

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

   Enforcement order number: Amount past due:

b. If the Applicant is a taxable entity (corporation or limited partnership), the Applicant must be in good standing with the Comptroller or the right of the entity to transact business in the State may be forfeited. See Texas Tax Code, Subchapter F. Applicant's may check their status with the Comptroller at https://mycpa.cpa.state.tx.us/coa/

   Is the Applicant or Co-Applicant in good standing with the Comptroller? **Yes / No** Yes

c. The commission will not grant an application for a water right unless the applicant has submitted all Texas Water Development Board (TWDB) surveys of groundwater and surface water use – if required. See TWC §16.012(m) and 30 TAC § 297.41(a)(5).

Applicant has submitted all required TWDB surveys of groundwater and surface water? **Yes / No** N/A

6. SIGNATURE PAGE (Instructions, Page. 11)

Applicant:

I, Brian Runey President
(Typed or printed name) (Title)

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 Title 30 Texas Administrative Code §295.14 to sign and submit this document and I have submitted written evidence of my signature authority.

Signature: _____ Date: 11-10-20
(Use blue ink)

Subscribed and Sworn to before me by the said Brian Runey

on this 10th day of November, 20 20.

My commission expires on the 6th day of July, 20 22.

Notary Public

[SEAL]

JOSHUA J. KAHN
Notary Public, State of Texas
Comm. Expires 07-06-2022
Notary ID 124216669

County, Texas

If the Application includes Co-Applicants, each Applicant and Co-Applicant must submit an original, separate signature page

6. SIGNATURE PAGE (Instructions, Page. 11)

Applicant:

I, Richard Biggers President
(Typed or printed name) (Title)

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 Title 30 Texas Administrative Code §295.14 to sign and submit this document and I have submitted written evidence of my signature authority.

Signature: _____ Date: 11-10-20
(Use blue ink)

Subscribed and Sworn to before me by the said Richard Biggers

on this 10th day of November, 20 20.

My commission expires on the 6th day of July, 20 22.

Notary Public

JOSHUA J. KAHN
Notary Public, State of Texas
Comm. Expires 07-06-2022
Notary ID 124216669

[SEAL]

County, Texas

If the Application includes Co-Applicants, each Applicant and Co-Applicant must submit an original, separate signature page

6. SIGNATURE PAGE (Instructions, Page. 11)

Applicant:

I, Eddie Prieto
(Typed or printed name) (Title)

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 Title 30 Texas Administrative Code §295.14 to sign and submit this document and I have submitted written evidence of my signature authority.

Signature: Eddie Prieto Date: 11-10-20
(Use blue ink)

Subscribed and Sworn to before me by the said Eddie Prieto

on this 10th day of November, 20 20.

My commission expires on the 6th day of July, 20 22.

Notary Public [SEAL]

JOSHUA J. KAHN
Notary Public, State of Texas
Comm. Expires 07-06-2022
Notary ID 124216669

County, Texas

If the Application includes Co-Applicants, each Applicant and Co-Applicant must submit an original, separate signature page

TECHNICAL INFORMATION REPORT
WATER RIGHTS PERMITTING

This Report is required for applications for new or amended water rights. Based on the Applicant's responses below, Applicant are directed to submit additional Worksheets (provided herein). A completed Administrative Information Report is also required for each application.

Applicants are strongly encouraged to schedule a pre-application meeting with TCEQ Permitting Staff to discuss Applicant's needs and to confirm information necessary for an application prior to submitting such application. Please call Water Availability Division at (512) 239-4600 to schedule a meeting. Applicant attended a pre-application meeting with TCEQ Staff for this Application? **Y / N** Yes (If yes, date : March 3, 2021).

1. New or Additional Appropriations of State Water. Texas Water Code (TWC) § 11.121 (Instructions, Page. 12)

State Water is: *The water of the ordinary flow, underflow, and tides of every flowing river, natural stream, and lake, and of every bay or arm of the Gulf of Mexico, and the storm water, floodwater, and rainwater of every river, natural stream, canyon, ravine, depression, and watershed in the state. TWC § 11.021.*

a. Applicant requests a new appropriation (diversion or impoundment) of State Water? **Y / N** Y

b. Applicant requests an amendment to an existing water right requesting an increase in the appropriation of State Water or an increase of the overall or maximum combined diversion rate? **Y / N** N (If yes, indicate the Certificate or Permit number: N/A)

If Applicant answered yes to (a) or (b) above, does Applicant also wish to be considered for a term permit pursuant to TWC § 11.1381? **Y / N** N/A

c. Applicant requests to extend an existing Term authorization or to make the right permanent? **Y / N** N (If yes, indicate the Term Certificate or Permit number:)

If Applicant answered yes to (a), (b) or (c), the following worksheets and documents are required:

- **Worksheet 1.0 – Quantity, Purpose, and Place of Use Information Worksheet**
- **Worksheet 2.0 - Impoundment/Dam Information Worksheet** (submit one worksheet for each impoundment or reservoir requested in the application)
- **Worksheet 3.0 - Diversion Point Information Worksheet** (submit one worksheet for each diversion point and/or one worksheet for the upstream limit and one worksheet for the downstream limit of each diversion reach requested in the application)
- **Worksheet 5.0 – Environmental Information Worksheet**
- **Worksheet 6.0 – Water Conservation Information Worksheet**
- **Worksheet 7.0 – Accounting Plan Information Worksheet**
- **Worksheet 8.0 – Calculation of Fees**
- **Fees calculated on Worksheet 8.0** – see instructions **Page. 34.**
- **Maps** – See instructions **Page. 15**.
- **Photographs** - See instructions **Page. 30**. Attachment 3 provides photographs and their locations.

Additionally, if Applicant wishes to submit an alternate source of water for the project/authorization, see Section 3, Page 3 for Bed and Banks Authorizations (Alternate sources may include groundwater, imported water, contract water or other sources).

Additional Documents and Worksheets may be required (see within).

2. Amendments to Water Rights. TWC § 11.122 (Instructions, Page. 12)

This section should be completed if Applicant owns an existing water right and Applicant requests to amend the water right. ***If Applicant is not currently the Owner of Record in the TCEQ Records, Applicant must submit a Change of Ownership Application (TCEQ-10204) prior to submitting the amendment Application or provide consent from the current owner to make the requested amendment. If the application does not contain consent from the current owner to make the requested amendment, TCEQ will not begin processing the amendment application until the Change of Ownership has been completed and will consider the Received Date for the application to be the date the Change of Ownership is completed.*** **See instructions page. 6.**

Water Right (Certificate or Permit) number you are requesting to amend: N/A

Applicant requests to sever and combine existing water rights from one or more Permits or Certificates into another Permit or Certificate? **Y / N** N/A (if yes, complete chart below):

List of water rights to sever	Combine into this ONE water right

a. Applicant requests an amendment to an existing water right to increase the amount of the appropriation of State Water (diversion and/or impoundment)? **Y / N** N/A

If yes, application is a new appropriation for the increased amount, complete ***Section 1 of this Report (PAGE. 1) regarding New or Additional Appropriations of State Water.***

b. Applicant requests to amend existing Term authorization to extend the term or make the water right permanent (remove conditions restricting water right to a term of years)? **Y / N** N/A

If yes, application is a new appropriation for the entire amount, complete ***Section 1 of this Report (PAGE. 1) regarding New or Additional Appropriations of State Water.***

c. Applicant requests an amendment to change the purpose or place of use or to add an additional purpose or place of use to an existing Permit or Certificate? **Y / N** N/A
If yes, submit:

- **Worksheet 1.0 – Quantity, Purpose, and Place of Use Information Worksheet**
- **Worksheet 1.2 - Notice: "Marshall Criteria"**

d. Applicant requests to change: diversion point(s); or reach(es); or diversion rate? **Y / N** N/A
If yes, submit:

- **Worksheet 3.0 - Diversion Point Information Worksheet** (submit one worksheet for each diversion point or one worksheet for the upstream limit and one worksheet for the downstream limit of each diversion reach)
- **Worksheet 5.0 – Environmental Information** (Required for <u>any</u> new diversion points that are not already authorized in a water right)

e. Applicant requests amendment to add or modify an impoundment, reservoir, or dam? **Y / N** N/A

If yes, submit: **Worksheet 2.0 - Impoundment/Dam Information Worksheet** (submit one worksheet for each impoundment or reservoir)

f. Other - Applicant requests to change any provision of an authorization not mentioned above? **Y / N** N/A *If yes, call the Water Availability Division at (512) 239-4600 to discuss.*

Additionally, all amendments require:

- **Worksheet 8.0 – Calculation of Fees; and Fees calculated – see instructions Page. 34**
- **Maps – See instructions Page. 15.**
- **Additional Documents and Worksheets may be required (see within).**

3. Bed and Banks. TWC § 11.042 (Instructions, Page 13)

a. Pursuant to contract, Applicant requests authorization to convey, stored or conserved water to the place of use or diversion point of purchaser(s) using the bed and banks of a watercourse? TWC § 11.042(a). **Y/N** N/A

If yes, submit a signed copy of the Water Supply Contract pursuant to 30 TAC §§ 295.101 and 297.101. Further, if the underlying Permit or Authorization upon which the Contract is based does not authorize Purchaser's requested Quantity, Purpose or Place of Use, or Purchaser's diversion point(s), then either:

1. *Purchaser must submit the worksheets required under Section 1 above with the Contract Water identified as an alternate source; or*
2. *Seller must amend its underlying water right under Section 2.*

b. Applicant requests to convey water imported into the state from a source located wholly outside the state using the bed and banks of a watercourse? TWC § 11.042(a-1). **Y / N** N/A

If yes, submit: worksheets 1.0, 2.0, 3.0, 4.0, 5.0, 7.0, 8.0, Maps and fees from the list below.

c. Applicant requests to convey Applicant's own return flows derived from privately owned groundwater using the bed and banks of a watercourse? TWC § 11.042(b). **Y / N** N/A

If yes, submit: worksheets 1.0, 2.0, 3.0, 4.0, 5.0, 7.0, 8.0, Maps, and fees from the list below.

d. Applicant requests to convey Applicant's own return flows derived from surface water using the bed and banks of a watercourse? TWC § 11.042(c). **Y / N** N/A

If yes, submit: worksheets 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, Maps, and fees from the list below.

****Please note, if Applicant requests the reuse of return flows belonging to others, the Applicant will need to submit the worksheets and documents under Section 1 above, as the application will be treated as a new appropriation subject to termination upon direct or indirect reuse by the return flow discharger/owner.***

e. Applicant requests to convey water from any other source, other than (a)-(d) above, using the bed and banks of a watercourse? TWC § 11.042(c). **Y / N** N/A

If yes, submit: worksheets 1.0, 2.0, 3.0, 4.0, 5.0, 7.0, 8.0, Maps, and fees from the list below.

Worksheets and information:

- **Worksheet 1.0 – Quantity, Purpose, and Place of Use Information Worksheet**
- **Worksheet 2.0 - Impoundment/Dam Information Worksheet** (submit one worksheet for each impoundment or reservoir owned by the applicant through which water will be conveyed or diverted)
- **Worksheet 3.0 - Diversion Point Information Worksheet** (submit one worksheet for the downstream limit of each diversion reach for the proposed conveyances)
- **Worksheet 4.0 – Discharge Information Worksheet** (for each discharge point)

- **Worksheet 5.0 – Environmental Information Worksheet**
- **Worksheet 6.0 – Water Conservation Information Worksheet**
- **Worksheet 7.0 – Accounting Plan Information Worksheet**
- **Worksheet 8.0 – Calculation of Fees; and Fees calculated – see instructions Page. 34**
- **Maps** – See instructions **Page. 15**.
- **Additional Documents and Worksheets may be required (see within).**

4. General Information, Response Required for all Water Right Applications (Instructions, Page 15)

a. Provide information describing how this application addresses a water supply need in a manner that is consistent with the state water plan or the applicable approved regional water plan for any area in which the proposed appropriation is located or, in the alternative, describe conditions that warrant a waiver of this requirement (*not required for applications to use groundwater-based return flows*). Include citations or page numbers for the State and Regional Water Plans, if applicable. Provide the information in the space below or submit a supplemental sheet entitled "Addendum Regarding the State and Regional Water Plans":

The applicant is located within Region C Planning Group. The application is consistent with the 2017 State Water Plan because there is nothing in the plan that conflicts with the application.

b. Did the Applicant perform its own Water Availability Analysis? **Y / N** N

If the Applicant performed its own Water Availability Analysis, provide electronic copies of any modeling files and reports.

C. Does the application include required Maps? (Instructions **Page. 15**) **Y / N** Y

Project location maps are provided in Attachment 4.

WORKSHEET 1.0
Quantity, Purpose and Place of Use

1. New Authorizations (Instructions, Page. 16)

Submit the following information regarding quantity, purpose and place of use for requests for new or additional appropriations of State Water or Bed and Banks authorizations:

Quantity (acre-feet) (*Include losses for Bed and Banks*)	**State Water Source (River Basin) or Alternate Source** *each *alternate source* (*and new appropriation based on return flows of others*) *also requires completion of Worksheet 4.0*	**Purpose(s) of Use**	**Place(s) of Use** **requests to move state water out of basin also require completion of Worksheet 1.1 Interbasin Transfer*
59.95	Groundwater from Woodbine Aquifer	Recreation	Oak Point ETJ, Denton County
17.21	Groundwater from Woodbine Aquifer	Recreation	Oak Point ETJ, Denton County

77.16 acre-feet/year Total amount of water (in acre-feet) to be used annually (*include losses for Bed and Banks applications*)

If the Purpose of Use is Agricultural/Irrigation for any amount of water, provide:

a. Location Information Regarding the Lands to be Irrigated

i) Applicant proposes to irrigate a total of_____acres in any one year. This acreage is all of or part of a larger tract(s) which is described in a supplement attached to this application and contains a total of_____acres in_____County, TX.

ii) Location of land to be irrigated: In the_____Original Survey No. _____, Abstract No._____.

A copy of the deed(s) or other acceptable instrument describing the overall tract(s) with the recording information from the county records must be submitted. Applicant's name must match deeds.
If the Applicant is not currently the sole owner of the lands to be irrigated, Applicant must submit documentation evidencing consent or other documentation supporting Applicant's right to use the land described.

Water Rights for Irrigation may be appurtenant to the land irrigated and convey with the land unless reserved in the conveyance. 30 TAC § 297.81.

2. Amendments - Purpose or Place of Use (Instructions, Page. 12)

a. Complete this section for each requested amendment changing, adding, or removing Purpose(s) or Place(s) of Use, complete the following:

Quantity (acre-feet)	Existing Purpose(s) of Use	Proposed Purpose(s) of Use*	Existing Place(s) of Use	Proposed Place(s) of Use**

**If the request is to add additional purpose(s) of use, include the existing and new purposes of use under "Proposed Purpose(s) of Use."*

***If the request is to add additional place(s) of use, include the existing and new places of use under "Proposed Place(s) of Use."*

Changes to the purpose of use in the Rio Grande Basin may require conversion. 30 TAC § 303.43.

b. For any request which adds Agricultural purpose of use or changes the place of use for Agricultural rights, provide the following location information regarding the lands to be irrigated:

i. Applicant proposes to irrigate a total of_____acres in any one year. This acreage is all of or part of a larger tract(s) which is described in a supplement attached to this application and contains a total of_____acres in_____ County, TX.

ii. Location of land to be irrigated: In the_____Original Survey No. _____, Abstract No._____.

A copy of the deed(s) describing the overall tract(s) with the recording information from the county records must be submitted. Applicant's name must match deeds. If the Applicant is not currently the sole owner of the lands to be irrigated, Applicant must submit documentation evidencing consent or other legal right for Applicant to use the land described.

Water Rights for Irrigation may be appurtenant to the land irrigated and convey with the land unless reserved in the conveyance. 30 TAC § 297.81.

c. Submit Worksheet 1.1, Interbasin Transfers, for any request to change the place of use which moves State Water to another river basin.

d. See Worksheet 1.2, Marshall Criteria, and submit if required.

e. See Worksheet 6.0, Water Conservation/Drought Contingency, and submit if required.

WORKSHEET 1.1
INTERBASIN TRANSFERS, TWC § 11.085

Submit this worksheet for an application for a new or amended water right which requests to transfer State Water from its river basin of origin to use in a different river basin. A river basin is defined and designated by the Texas Water Development Board by rule pursuant to TWC § 16.051.

Applicant requests to transfer State Water to another river basin within the State? **Y / N** N/A

1. Interbasin Transfer Request (Instructions, Page. 20)

a. Provide the Basin of Origin._____

b. Provide the quantity of water to be transferred (acre-feet)._____

c. Provide the Basin(s) and count(y/ies) where use will occur in the space below:

_____

2. Exemptions (Instructions, Page. 20), TWC § 11.085(v)

Certain interbasin transfers are exempt from further requirements. Answer the following:

a. The proposed transfer, which in combination with any existing transfers, totals less than 3,000 acre-feet of water per annum from the same water right. **Y/N**_

b. The proposed transfer is from a basin to an adjoining coastal basin? **Y/N**___

c. The proposed transfer from the part of the geographic area of a county or municipality, or the part of the retail service area of a retail public utility as defined by Section 13.002, that is within the basin of origin for use in that part of the geographic area of the county or municipality, or that contiguous part of the retail service area of the utility, not within the basin of origin? **Y/N**__

d. The proposed transfer is for water that is imported from a source located wholly outside the boundaries of Texas, except water that is imported from a source located in the United Mexican States? **Y/N**__

3. Interbasin Transfer Requirements (Instructions, Page. 20)

For each Interbasin Transfer request that is not exempt under any of the exemptions listed above Section 2, provide the following information in a supplemental attachment titled "Addendum to Worksheet 1.1, Interbasin Transfer":

a. the contract price of the water to be transferred (if applicable) (also include a copy of the contract or adopted rate for contract water);

b. a statement of each general category of proposed use of the water to be transferred and a detailed description of the proposed uses and users under each category;

c. the cost of diverting, conveying, distributing, and supplying the water to, and treating the water for, the proposed users (example - expert plans and/or reports documents may be provided to show the cost);

d. describe the need for the water in the basin of origin and in the proposed receiving basin based on the period for which the water supply is requested, but not to exceed 50 years (the need can be identified in the most recently approved regional water plans. The state and regional water plans are available for download at this website: (http://www.twdb.texas.gov/waterplanning/swp/index.asp);

e. address the factors identified in the applicable most recently approved regional water plans which address the following:

(i) the availability of feasible and practicable alternative supplies in the receiving basin to the water proposed for transfer;
(ii) the amount and purposes of use in the receiving basin for which water is needed;

(iii) proposed methods and efforts by the receiving basin to avoid waste and implement water conservation and drought contingency measures;

(iv) proposed methods and efforts by the receiving basin to put the water proposed for transfer to beneficial use;

(v) the projected economic impact that is reasonably expected to occur in each basin as a result of the transfer; and

(vi) the projected impacts of the proposed transfer that are reasonably expected to occur on existing water rights, instream uses, water quality, aquatic and riparian habitat, and bays and estuaries that must be assessed under Sections 11.147, 11.150, and 11.152 in each basin *(if applicable*). If the water sought to be transferred is currently authorized to be used under an existing permit, certified filing, or certificate of adjudication, such impacts shall only be considered in relation to that portion of the permit, certified filing, or certificate of adjudication proposed for transfer and shall be based on historical uses of the permit, certified filing, or certificate of adjudication for which amendment is sought;

f. proposed mitigation or compensation, if any, to the basin of origin by the applicant; and

g. the continued need to use the water for the purposes authorized under the existing Permit, Certified Filing, or Certificate of Adjudication, if an amendment to an existing water right is sought.

WORKSHEET 1.2
NOTICE. "THE MARSHALL CRITERIA"

This worksheet assists the Commission in determining notice required for certain **amendments** that do not already have a specific notice requirement in a rule for that type of amendment, and *that do not change the amount of water to be taken or the diversion rate*. The worksheet provides information that Applicant **is required** to submit for such amendments which include changes in use, changes in place of use, or other non-substantive changes in a water right (such as certain amendments to special conditions or changes to off-channel storage). These criteria address whether the proposed amendment will impact other water right holders or the on-stream environment beyond and irrespective of the fact that the water right can be used to its full authorized amount.

*This worksheet is **not required for Applications in the Rio Grande Basin** requesting changes in the purpose of use, rate of diversion, point of diversion, and place of use for water rights held in and transferred within and between the mainstems of the Lower Rio Grande, Middle Rio Grande, and Amistad Reservoir. See 30 TAC § 303.42.*

*This worksheet is **not required for amendments which are only changing or adding diversion points, or request only a bed and banks authorization or an IBT authorization**. However, Applicants may wish to submit the Marshall Criteria to ensure that the administrative record includes information supporting each of these criteria*

1. The "Marshall Criteria" (Instructions, Page. 21)

Submit responses on a supplemental attachment titled "Marshall Criteria" in a manner that conforms to the paragraphs (a) – (g) below:

a. Administrative Requirements and Fees. Confirm whether application meets the administrative requirements for an amendment to a water use permit pursuant to TWC Chapter 11 and Title 30 Texas Administrative Code (TAC) Chapters 281, 295, and 297. An amendment application should include, but is not limited to, a sworn application, maps, completed conservation plan, fees, etc.

b. Beneficial Use. Discuss how proposed amendment is a beneficial use of the water as defined in TWC § 11.002 and listed in TWC § 11.023. Identify the specific proposed use of the water (e.g., road construction, hydrostatic testing, etc.) for which the amendment is requested.

c. Public Welfare. Explain how proposed amendment is not detrimental to the public welfare. Consider any public welfare matters that might be relevant to a decision on the application. Examples could include concerns related to the well-being of humans and the environment.

d. Groundwater Effects. Discuss effects of proposed amendment on groundwater or groundwater recharge.

e. State Water Plan. Describe how proposed amendment addresses a water supply need in a manner that is consistent with the state water plan or the applicable approved regional water plan for any area in which the proposed appropriation is located or, in the alternative, describe conditions that warrant a waiver of this requirement. The state and regional water plans are available for download at: http://www.twdb.texas.gov/waterplanning/swp/index.asp.

f. Waste Avoidance. Provide evidence that reasonable diligence will be used to avoid waste and achieve water conservation as defined in TWC § 11.002. Examples of evidence could include, but are not limited to, a water conservation plan or, if required, a drought contingency plan, meeting the requirements of 30 TAC Chapter 288.

g. Impacts on Water Rights or On-stream Environment. Explain how proposed amendment will not impact other water right holders or the on-stream environment beyond and irrespective of the fact that the water right can be used to its full authorized amount.

WORKSHEET 2.0
Impoundment/Dam Information

This worksheet **is required** for any impoundment, reservoir and/or dam. Submit an additional Worksheet 2.0 for each impoundment or reservoir requested in this application.

If there is more than one structure, the numbering/naming of structures should be consistent throughout the application and on any supplemental documents (e.g. maps).

1. Storage Information (Instructions, Page. 21)

a. Official USGS name of reservoir, if applicable: Tannery Lake

b. Provide amount of water (in acre-feet) impounded by structure at normal maximum operating level: 104.03 acre-feet.

c. The impoundment is on-channel X or off-channel _____ (mark one)

i. Applicant has verified on-channel or off-channel determination by contacting Surface Water Availability Team at (512) 239-4600? **Y / N** N

ii. If on-channel, will the structure have the ability to pass all State Water inflows that Applicant does not have authorization to impound? **Y / N** Y

d. Is the impoundment structure already constructed? **Y / N** Y

i. For already constructed **on-channel** structures:

1. Date of Construction: before 1968

2. Was it constructed to be an exempt structure under TWC § 11.142? **Y / N** Y
   a. If Yes, is Applicant requesting to proceed under TWC § 11.143? **Y / N** Y
   b. If No, has the structure been issued a notice of violation by TCEQ? **Y / N** N/A

3. Is it a U.S. Natural Resources Conservation Service (NRCS) (formerly Soil Conservation Service (SCS)) floodwater-retarding structure? **Y / N** N
   a. If yes, provide the Site No. N/A and watershed project name N/A;
   b. Authorization to close "ports" in the service spillway requested? **Y / N** N/A

ii. For **any** proposed new structures or modifications to structures:

1. Applicant **must** contact TCEQ Dam Safety Section at (512) 239-0326, *prior to submitting an Application.* Applicant has contacted the TCEQ Dam Safety Section regarding the submission requirements of 30 TAC, Ch. 299? **Y / N** Y
   Provide the date and the name of the Staff Person Johnny Cosgrove, March 29, 2021

2. As a result of Applicant's consultation with the TCEQ Dam Safety Section, TCEQ has confirmed that:
   a. No additional dam safety documents required with the Application. **Y / N** Y
   b. Plans (with engineer's seal) for the structure required. **Y / N** Y
   c. Engineer's signed and sealed hazard classification required. **Y / N** Y
   d. Engineer's statement that structure complies with 30 TAC, Ch. 299 Rules required. **Y / N** Y

   Additional dam safety documents can be found in Attachment 5.

3. Applicants **shall** give notice by certified mail to each member of the governing body of each county and municipality in which the reservoir, or any part of the reservoir to be constructed, will be located. (30 TAC § 295.42). Applicant must submit a copy of all the notices and certified mailing cards with this Application. Notices and cards are included? **Y / N** N

iii. Additional information required for **on-channel** storage:

1. Surface area (in acres) of on-channel reservoir at normal maximum operating level: 13.17 acres.

2. Based on the Application information provided, Staff will calculate the drainage area above the on-channel dam or reservoir. If Applicant wishes to also calculate the drainage area they may do so at their option.
Applicant has calculated the drainage area. **Y/N** Y
If yes, the drainage area is 0.4883 sq. miles.
(*If assistance is needed, call the Surface Water Availability Team prior to submitting the application, (512) 239-4600).*

2. Structure Location (Instructions, Page. 23)

a. On Watercourse (if on-channel) (USGS name): unnamed tributary of Cantrell Slough

b. Zip Code: 76227

c. In the Cross Oak Ranch PH 3 Original Survey No. Tract 11, Abstract No. SD2551A, Denton County, Texas.

* ***A copy of the deed(s) with the recording information from the county records must be submitted describing the tract(s) that include the structure and all lands to be inundated.***

*****If the Applicant is not currently the sole owner of the land on which the structure is or will be built and sole owner of all lands to be inundated, Applicant must submit documentation evidencing consent or other documentation supporting Applicant's right to use the land described.***

Special warranty deeds for the tract is included in Attachment 6.

d. A point on the centerline of the dam (on-channel) or anywhere within the impoundment (off-channel) is:

Latitude 33.204061 °N, Longitude -96.989347 °W.

****Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***

di. Indicate the method used to calculate the location (examples: Handheld GPS Device, GIS, Mapping Program): ArcGIS, ArcMap 10.6

dii. Map submitted which clearly identifies the Impoundment, dam (where applicable), and the lands to be inundated. See instructions Page. 15. **Y / N** Y

WORKSHEET 3.0
DIVERSION POINT (OR DIVERSION REACH) INFORMATION

This worksheet **is required** for each diversion point or diversion reach. Submit one Worksheet 3.0 for **each** diversion point and two Worksheets for **each** diversion reach (one for the upstream limit and one for the downstream limit of each diversion reach).

The numbering of any points or reach limits should be consistent throughout the application and on supplemental documents (e.g. maps).

1. Diversion Information (Instructions, Page. 24)

a. This Worksheet is to add new (select 1 of 3 below):

1. N/A Diversion Point No.
2. N/A Upstream Limit of Diversion Reach No.
3. N/A Downstream Limit of Diversion Reach No.

b. Maximum Rate of Diversion for **this new point** N/A cfs (cubic feet per second) or N/A gpm (gallons per minute)

c. Does this point share a diversion rate with other points? **Y / N** N/A
*If yes, submit Maximum **Combined** Rate of Diversion for all points/reaches* _____ cfs or _____ gpm

d. For amendments, is Applicant seeking to increase combined diversion rate? **Y / N** N/A

*** An increase in diversion rate is considered a new appropriation and would require completion of Section 1, New or Additional Appropriation of State Water.*

e. Check (√) the appropriate box to indicate diversion location and indicate whether the diversion location is existing or proposed):

Check one		Write: Existing or Proposed
	Directly from stream	
	From an on-channel reservoir	
	From a stream to an on-channel reservoir	
	Other method (explain fully, use additional sheets if necessary)	

f. Based on the Application information provided, Staff will calculate the drainage area above the diversion point (or reach limit). If Applicant wishes to also calculate the drainage area, you may do so at their option.

Applicant has calculated the drainage area. **Y / N** N/A

If yes, the drainage area is _____ sq. miles.
(*If assistance is needed, call the Surface Water Availability Team at (512) 239-4600, prior to submitting application*)

2. Diversion Location (Instructions, Page 25)

a. On watercourse (USGS name): _____

b. Zip Code: _____

c. Location of point: In the_____Original Survey No._____, Abstract No._____,_____County, Texas.

A copy of the deed(s) with the recording information from the county records must be submitted describing tract(s) that include the diversion structure.

For diversion reaches, the Commission cannot grant an Applicant access to property that the Applicant does not own or have consent or a legal right to access, the Applicant will be required to provide deeds, or consent, or other documents supporting a legal right to use the specific points when specific diversion points within the reach are utilized. Other documents may include, but are not limited to: a recorded easement, a land lease, a contract, or a citation to the Applicant's right to exercise eminent domain to acquire access.

d. Point is at:
Latitude_____°N, Longitude_____°W.
Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places

e. Indicate the method used to calculate the location (examples: Handheld GPS Device, GIS, Mapping Program):_____

f. Map submitted must clearly identify each diversion point and/or reach. See instructions Page. 38.

g. If the Plan of Diversion is complicated and not readily discernable from looking at the map, attach additional sheets that fully explain the plan of diversion.

WORKSHEET 4.0
DISCHARGE INFORMATION

This worksheet required for any requested authorization to discharge water into a State Watercourse for conveyance and later withdrawal or in-place use. Worksheet 4.1 is also required for each Discharge point location requested. **Instructions Page. 26.** ***Applicant is responsible for obtaining any separate water quality authorizations which may be required and for insuring compliance with TWC, Chapter 26 or any other applicable law.***

a. The purpose of use for the water being discharged will be recreation.

b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 90.25 ac-ft/yr % and explain the method of calculation: Taken from the TCEQ water availability model.

Is the source of the discharged water return flows? **Y / N** N If yes, provide the following information:

1. The TPDES Permit Number(s). N/A (attach a copy of the **current** TPDES permit(s))

2. Applicant is the owner/holder of each TPDES permit listed above? **Y / N** N/A

PLEASE NOTE: If Applicant is not the discharger of the return flows, the application should be submitted under Section 1, New or Additional Appropriation of State Water, as a request for a new appropriation of state water. If Applicant is the discharger, then the application should be submitted under Section 3, Bed and Banks.

3. Monthly WWTP discharge data for the past 5 years in electronic format. (Attach and label as "Supplement to Worksheet 4.0").

4. The percentage of return flows from groundwater N/A, surface water _____?

5. If any percentage is surface water, provide the base water right number(s)_____.

c. Is the source of the water being discharged groundwater? **Y / N** Y If yes, provide the following information:

1. Source aquifer(s) from which water will be pumped: Woodbine

2. Any 24 hour pump test for the well if one has been conducted. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See http://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp. Additionally, provide well numbers or identifiers_____.
A 24-hour pump test was conducted with a 2-inch water meter, which resulted in 47 gpm.

3. Indicate how the groundwater will be conveyed to the stream or reservoir.
Piped directly into the reservoir.

4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
Copy of North Texas GCD well permit documentation is provided in Attachment 7.

ci. Is the source of the water being discharged a surface water supply contract? **Y / N** N
If yes, provide the signed contract(s).

cii. Identify any other source of the water N/A

WORKSHEET 4.1
DISCHARGE POINT INFORMATION

This worksheet is required for **each** discharge point. Submit one Worksheet 4.1 for each discharge point. If there is more than one discharge point, the numbering of the points should be consistent throughout the application and on any supplemental documents (e.g. maps). **Instructions, Page 27.**

For water discharged at this location provide:

a. The amount of water that will be discharged at this point is 1,054 acre-feet per year. The discharged amount should include the amount needed for use and to compensate for any losses.

b. Water will be discharged at this point at a maximum rate of 171.4 cfs or _____ gpm.

c. Name of Watercourse as shown on Official USGS maps: unnamed tributary of Cantrell Slough.

d. Zip Code 76227

f. Location of point: In the Cross Oak Ranch PH 3 Original Survey No. Tract 11, Abstract No. SD2551A, Denton County, Texas.

g. Point is at:

Latitude 33.204061 °N, Longitude -96.989347 °W.

Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places

h. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): ArcGIS, ArcMap 10.6

Map submitted must clearly identify each discharge point. See instructions Page. 15.

See project location maps in Attachment 4.

WORKSHEET 5.0
ENVIRONMENTAL INFORMATION

1. Impingement and Entrainment

This section is required for any new diversion point that is not already authorized. Indicate the measures the applicant will take to avoid impingement and entrainment of aquatic organisms (ex. Screens on any new diversion structure that is not already authorized in a water right). **Instructions, Page 29.**

Please see Attachment 8, Addendum to Worksheet 5.

2. New Appropriations of Water (Canadian, Red, Sulphur, and Cypress Creek Basins only) and Changes in Diversion Point(s)

This section is required for new appropriations of water in the Canadian, Red, Sulphur, and Cypress Creek Basins and in all basins for requests to change a diversion point. **Instructions, Page 30.**

Description of the Water Body at each Diversion Point or Dam Location. (Provide an Environmental Information Sheet for each location),

a. Identify the appropriate description of the water body.

☐ Stream

☐ Reservoir

Average depth of the entire water body, in feet: _____

☐ Other, specify: _____

b. Flow characteristics

If a stream, was checked above, provide the following. For new diversion locations, check one of the following that best characterize the area downstream of the diversion (check one).

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

☐ Intermittent with Perennial Pools – enduring pools

☐ Perennial – normally flowing

Check the method used to characterize the area downstream of the new diversion location.

☐ USGS flow records

☐ Historical observation by adjacent landowners

☐ Personal observation

☐ Other, specify: _____

c. Waterbody aesthetics

Check one of the following that best describes the aesthetics of the stream segments affected by the application and the area surrounding those stream segments.

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

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

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

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

d. Waterbody Recreational Uses

Are there any known recreational uses of the stream segments affected by the application?

☐ Primary contact recreation (swimming or direct contact with water)

☐ Secondary contact recreation (fishing, canoeing, or limited contact with water)

☐ Non-contact recreation

Submit the following information in a Supplemental Attachment, labeled Addendum to Worksheet 5.0:

1. Photographs of the stream at the diversion point or dam location. Photographs should be in color and show the proposed point or reservoir and upstream and downstream views of the stream, including riparian vegetation along the banks. Include a description of each photograph and reference the photograph to the map submitted with the application indicating the location of the photograph and the direction of the shot.

2. If the application includes a proposed reservoir, also include:

    i. A brief description of the area that will be inundated by the reservoir.

    ii. If a United States Army Corps of Engineers (USACE) 404 permit is required, provide the project number and USACE project manager.

    iii. A description of how any impacts to wetland habitat, if any, will be mitigated if the reservoir is greater than 5,000 acre-feet.

3. Alternate Sources of Water and/or Bed and Banks Applications

This section is required for applications using an alternate source of water and bed and banks applications in any basins. **Instructions, page 31.**

a. For all bed and banks applications:

i. Submit an assessment of the adequacy of the quantity and quality of flows remaining after the proposed diversion to meet instream uses and bay and estuary freshwater inflow requirements.

Please see Attachment 9, Addendum to Worksheet 5.

b. For all alternate source applications:

i. If the alternate source is treated return flows, provide the TPDES permit number_____

ii. If groundwater is the alternate source, or groundwater or other surface water will be discharged into a watercourse provide:
Reasonably current water chemistry information including but not limited to the following parameters in the table below. Additional parameters may be requested if there is a specific water quality concern associated with the aquifer from which water is withdrawn. If data for onsite wells are unavailable; historical data collected from similar sized wells drawing water from the same aquifer may be provided. However, onsite data may still be required when it becomes available. Provide the well number or well identifier. Complete the information below for each well and provide the Well Number or identifier.

Full list of test results is provided in Attachment 9.

Parameter	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Sulfate, mg/L	250 mg/L		1	water	3-24-2021
Chloride, mg/L	58.2 mg/L		1	water	3-24-2021
Total Dissolved Solids, mg/L	547 mg/L		1	water	11-10-2020
pH, standard units	6.6		1	water	11-10-2020
Temperature*, degrees Celsius	25				11-10-2020

* Temperature must be measured onsite at the time the groundwater sample is collected.

iii. If groundwater will be used, provide the depth of the well 280 feet and the name of the aquifer from which water is withdrawn Woodbine.

WORKSHEET 6.0
Water Conservation/Drought Contingency Plans

This form is intended to assist applicants in determining whether a Water Conservation Plan and/or Drought Contingency Plans is required and to specify the requirements for plans. **Instructions, Page 31.**

The TCEQ has developed guidance and model plans to help applicants prepare plans. Applicants may use the model plan with pertinent information filled in. For assistance submitting a plan call the Resource Protection Team (Water Conservation staff) at 512-239-4600, or e-mail wras@tceq.texas.gov. The model plans can also be downloaded from the TCEQ webpage. ***Please use the most up-to-date plan documents available on the webpage.***

1. Water Conservation Plans

a. The following applications must include a completed Water Conservation Plan (30 TAC § 295.9) for each use specified in 30 TAC, Chapter 288 (municipal, industrial or mining, agriculture – including irrigation, wholesale):

1. Request for a new appropriation or use of State Water.

2. Request to amend water right to increase appropriation of State Water.

3. Request to amend water right to extend a term.

4. Request to amend water right to change a place of use.
   **does not apply to a request to expand irrigation acreage to adjacent tracts.*

5. Request to amend water right to change the purpose of use.
   **applicant need only address new uses.*

6. Request for bed and banks under TWC § 11.042(c), when the source water is State Water
   **including return flows, contract water, or other State Water.*

b. If Applicant is requesting any authorization in section (1)(a) above, indicate each use for which Applicant is submitting a Water Conservation Plan as an attachment:

1. _____Municipal Use. See 30 TAC § 288.2. **

2. _____Industrial or Mining Use. See 30 TAC § 288.3.

3. _____Agricultural Use, including irrigation. See 30 TAC § 288.4.

4. _____Wholesale Water Suppliers. See 30 TAC § 288.5. **

If Applicant is a water supplier, Applicant must also submit documentation of adoption of the plan. Documentation may include an ordinance, resolution, or tariff, etc. See 30 TAC §§ 288.2(a)(1)(J)(i) and 288.5(1)(H). Applicant has submitted such documentation with each water conservation plan? **Y / N____

c. Water conservation plans submitted with an application must also include data and information which: supports applicant's proposed use with consideration of the plan's water conservation goals; evaluates conservation as an alternative to the proposed

appropriation; and evaluates any other feasible alternative to new water development. See 30 TAC § 288.7.
Applicant has included this information in each applicable plan? **Y / N**____

2. Drought Contingency Plans

a. A drought contingency plan is also required for the following entities if Applicant is requesting any of the authorizations in section (1) (a) above – indicate each that applies:

1. _____Municipal Uses by public water suppliers. See 30 TAC § 288.20.

2. _____Irrigation Use/ Irrigation water suppliers. See 30 TAC § 288.21.

3. _____Wholesale Water Suppliers. See 30 TAC § 288.22.

b. If Applicant must submit a plan under section 2(a) above, Applicant has also submitted documentation of adoption of drought contingency plan (*ordinance, resolution, or tariff, etc. See 30 TAC § 288.30*) **Y / N**___

WORKSHEET 7.0
ACCOUNTING PLAN INFORMATION WORKSHEET

The following information provides guidance on when an Accounting Plan may be required for certain applications and if so, what information should be provided. An accounting plan can either be very simple such as keeping records of gage flows, discharges, and diversions; or, more complex depending on the requests in the application. Contact the Surface Water Availability Team at 512-239-4600 for information about accounting plan requirements, if any, for your application. **Instructions, Page 34.**

Accounting Plan and Accounting Plan Summary provided in Attachment 10.

1. Is Accounting Plan Required

Accounting Plans are generally required:

- For applications that request authorization to divert large amounts of water from a single point where multiple diversion rates, priority dates, and water rights can also divert from that point;
- For applications for new major water supply reservoirs;
- For applications that amend a water right where an accounting plan is already required, if the amendment would require changes to the accounting plan;
- For applications with complex environmental flow requirements;
- For applications with an alternate source of water where the water is conveyed and diverted; and
- For reuse applications.

2. Accounting Plan Requirements

a. A **text file** that includes:
   1. an introduction explaining the water rights and what they authorize;
   2. an explanation of the fields in the accounting plan spreadsheet including how they are calculated and the source of the data;
   3. for accounting plans that include multiple priority dates and authorizations, a section that discusses how water is accounted for by priority date and which water is subject to a priority call by whom; and
   4. Should provide a summary of all sources of water.

b. A **spreadsheet** that includes:
   1. Basic daily data such as diversions, deliveries, compliance with any instream flow requirements, return flows discharged and diverted and reservoir content;
   2. Method for accounting for inflows if needed;
   3. Reporting of all water use from all authorizations, both existing and proposed;
   4. An accounting for all sources of water;
   5. An accounting of water by priority date;
   6. For bed and banks applications, the accounting plan must track the discharged water from the point of delivery to the final point of diversion;
   7. Accounting for conveyance losses;
   8. Evaporation losses if the water will be stored in or transported through a reservoir. Include changes in evaporation losses and a method for measuring reservoir content resulting from the discharge of additional water into the reservoir;
   9. An accounting for spills of other water added to the reservoir; and
   10. Calculation of the amount of drawdown resulting from diversion by junior rights or diversions of other water discharged into and then stored in the reservoir.

WORKSHEET 8.0
CALCULATION OF FEES

This worksheet is for calculating required application fees. Applications are not Administratively Complete until all required fees are received. **Instructions, Page. 34**

1. NEW APPROPRIATION

	Description	Amount ($)
Filing Fee	Circle fee correlating to the total amount of water* requested for any new appropriation and/or impoundment. Amount should match total on Worksheet 1, Section 1. Enter corresponding fee under **Amount ($).** In Acre-Feet a. Less than 100 $100.00 b. 100 - 5,000 $250.00 c. 5,001 - 10,000 $500.00 d. 10,001 - 250,000 $1,000.00 e. More than 250,000 $2,000.00	
Recording Fee		$25.00
Agriculture Use Fee	*Only for those with an Irrigation Use.* Multiply 50¢ x_____Number of acres that will be irrigated with State Water. **	
Use Fee	*Required for all Use Types, **excluding Irrigation Use.*** Multiply $1.00 x_____Maximum annual diversion of State Water in acre-feet. **	
Recreational Storage Fee	*Only for those with Recreational Storage.* Multiply $1.00 x_____acre-feet of in-place Recreational Use State Water to be stored at normal max operating level.	
Storage Fee	*Only for those with Storage, **excluding Recreational Storage.*** Multiply 50¢ x_____acre-feet of State Water to be stored at normal max operating level.	
Mailed Notice	Cost of mailed notice to all water rights in the basin. Contact Staff to determine the amount (512) 239-4600.	
	TOTAL	$

2. AMENDMENT *OR* SEVER AND COMBINE

	Description	Amount ($)
Filing Fee	Amendment: $100	
	OR Sever and Combine: $100 x___of water rights to combine	
Recording Fee		$12.50
Mailed Notice	Additional notice fee to be determined once application is submitted.	
	TOTAL INCLUDED	$

3. BED AND BANKS

	Description	Amount ($)
Filing Fee		$100.00
Recording Fee		$12.50
Mailed Notice	Additional notice fee to be determined once application is submitted.	
	TOTAL INCLUDED	$

ATTACHMENT 1

Written Evidence of Signature Authority for Denton County MUD 4

PELOTON
LAND SOLUTIONS

CORPORATE OFFICE
9800 Hillwood Pkwy.
Suite 250
Fort Worth, Texas, 76177
817.562.3350

April 13, 2021

Executive Director
Texas Commission on Environmental Quality
P.O. Box 13087, MC-148
Austin, Texas 78711-3087

RE: Delegation of Signatories pursuant to 30 TAC 295.14(5)
TCEQ Customer Number: CN602590598
TCEQ Regulated Entity Number: RN101575967

Dear Executive Director:

This letter serves to designate the following people or positions as authorized personnel for signing water use permit applications, reports, and associated certifications as requested by the Executive Director or required by the permit, as set forth by 30 TAC 295.14(5).

Name	Brian Runey
Position	President

By signing this authorization, I confirm that I meet the requirements to make such a designation.

Sincerely,

Signature | President (Title) | Name

Brian Runey
Printed Name

972 824-2895
Contact Number

Executed before me by Brian Runey on this 13 day of April, 2021

JESSICA LEE
Notary Public, State of Texas
Comm. Expires 12-11-2023
Notary ID 124763924

Jessica Lee
Notary Public in and for the State of Texas

ATTACHMENT 2

Written Evidence of Signature Authority for Denton County MUD 5

PELOTON
LAND SOLUTIONS

CORPORATE OFFICE
9800 Hillwood Pkwy.
Suite 250
Fort Worth, Texas, 76177
817.562.3350

April 13, 2021

Executive Director
Texas Commission on Environmental Quality
P.O. Box 13087, MC-148
Austin, Texas 78711-3087

RE: Delegation of Signatories pursuant to 30 TAC 295.14(5)
TCEQ Customer Number: CN602650905
TCEQ Regulated Entity Number: RN104311634

Dear Executive Director:

This letter serves to designate the following people or positions as authorized personnel for signing water use permit applications, reports, and associated certifications as requested by the Executive Director or required by the permit, as set forth by 30 TAC 295.14(5).

Name	Richard Biggers
Position	President

By signing this authorization, I confirm that I meet the requirements to make such a designation.

Sincerely,

Richard Biggers — Signature
President — Title
_____ — Name

Richard Biggers — Printed Name
972.742.9101 — Contact Number

Executed before me by Richard Biggers on this 13 day of April, 2021

JESSICA LEE
Notary Public, State of Texas
Comm. Expires 12-11-2023
Notary ID 124763924

Jessica Lee
Notary Public in and for the State of Texas

ATTACHMENT 3

Original Photographs

SHEET NO. 1

GRAPHIC SCALE

0 500 Feet

N W E S

Tannery Dam

Photo Location Exhibit

Oak Point ETJ, Denton County, Texas

Prepared By:
PELOTON LAND SOLUTIONS
9800 HILLWOOD PARKAY, SUITE 250
FORT WORTH, TX 76177
PHONE: 817-562-3350

Sources: NAIP 2018

Date: February 2021

File Path: J:\Job\DC416001\District\ENV\GIS\MXD\WAP\Ex1 Photo Location Map.mxd

Photograph 1. View to the east of Tannery Lake toward the downstream end of the pond (August 11, 2020).

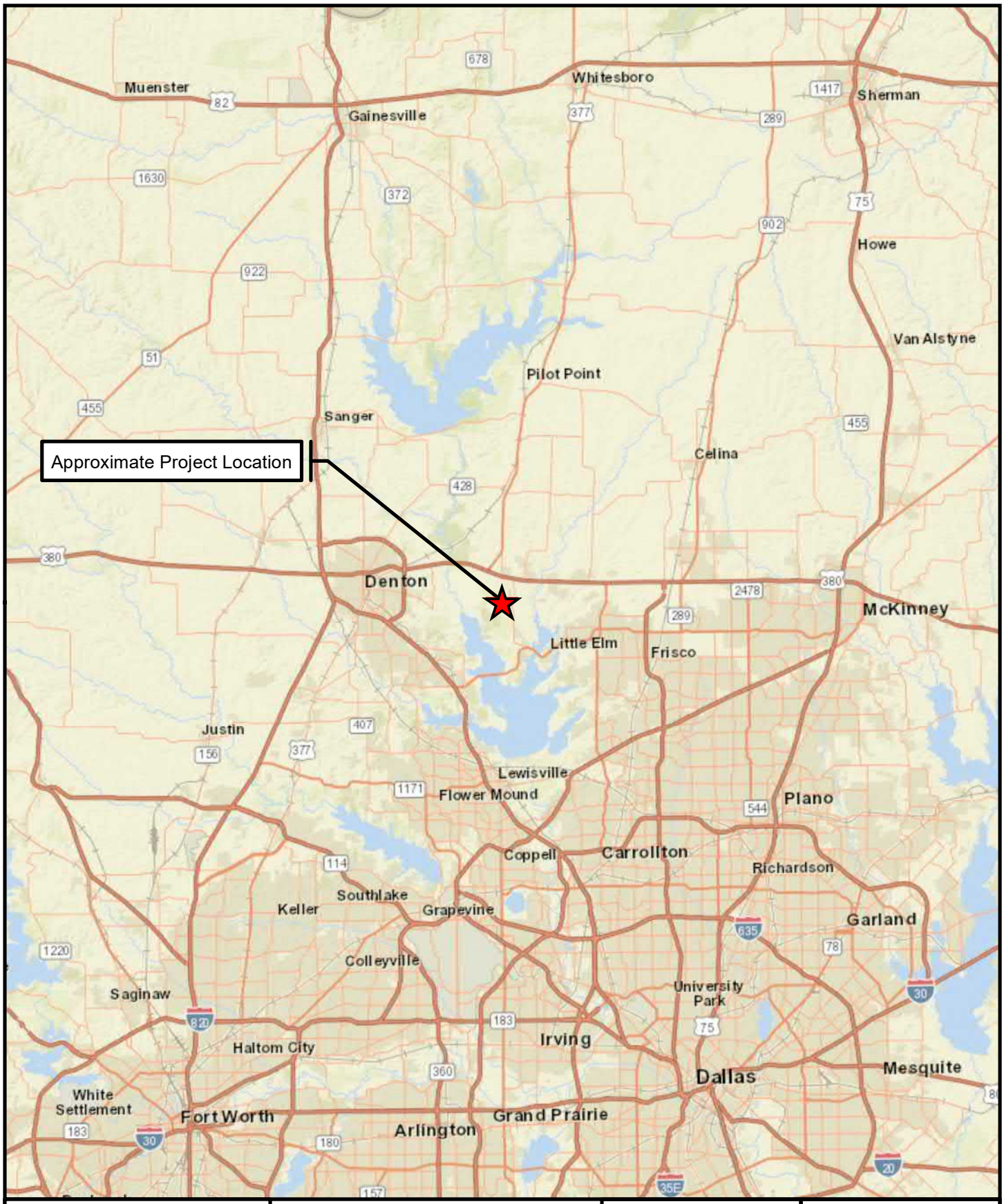
Photograph 2. View to the west of Tannery Lake (August 11, 2020).

Photograph 3. View to the west of Tannery Lake (August 11, 2020).

Photograph 4. View to the north of Tannery Lake along the dam (August 11, 2020).

ATTACHMENT 4

Project Location Maps



SHEET NO. 1

GRAPHIC SCALE

0 8 Miles

N W E S

Tannery Dam

Vicinity Exhibit

Oak Point EJT, Denton County, Texas

Prepared By:

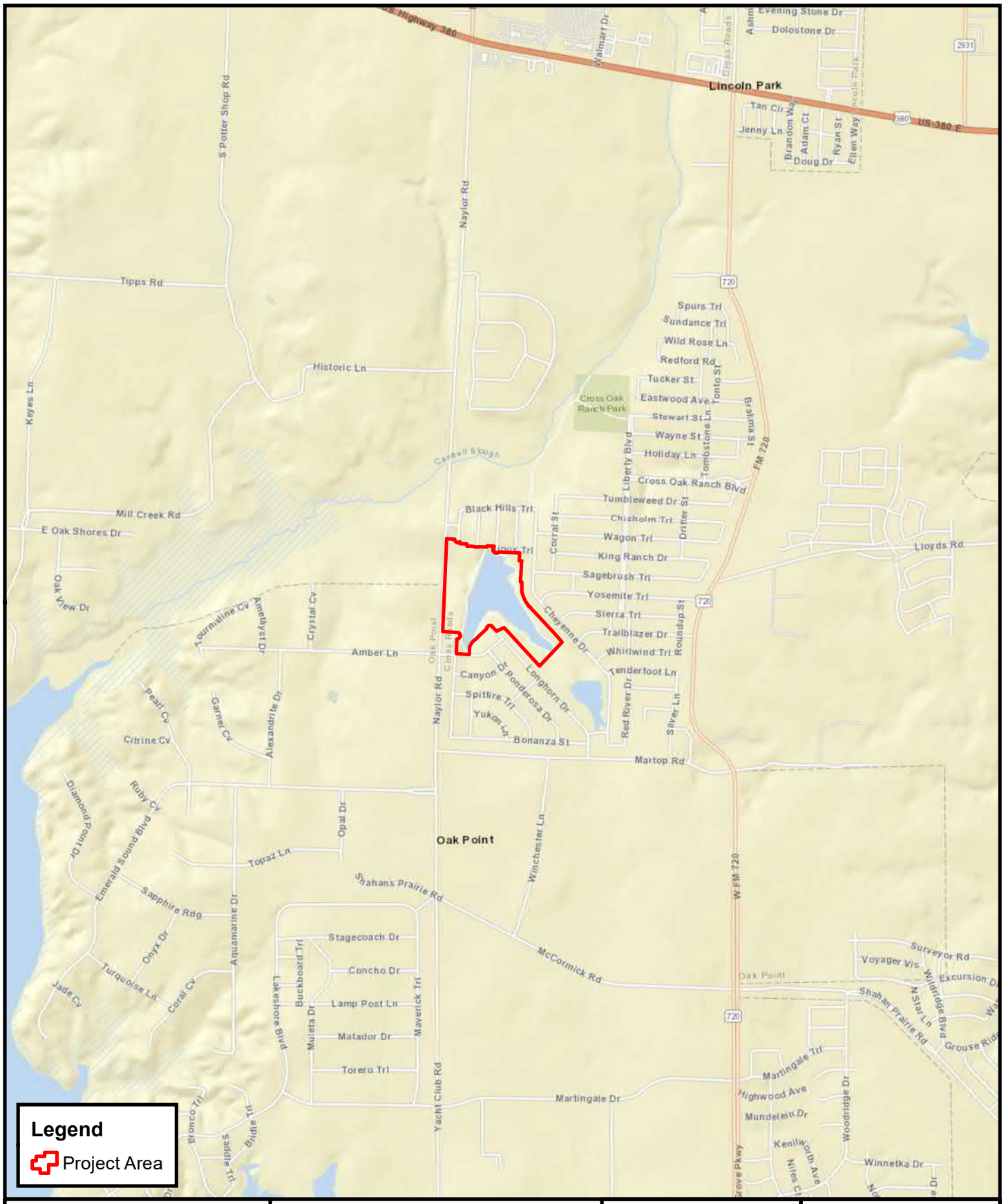
PELOTON LAND SOLUTIONS

9800 HILLWOOD PARKWAY, SUITE 250
FORT WORTH, TX 76177
PHONE: 817-562-3350

Source: Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2014

Date: 8/17/2020

File Path: J:\Job\DC416001\District\ENV\GIS\MXD\WAPEx1 Vicinity Map.mxd


Legend
Project Area
Lincoln Park
Oak Point
Tannery Dam
Local Area Exhibit
Oak Point ETJ, Denton County, Texas
SHEET NO. 2
GRAPHIC SCALE
0
2,000
Feet
Prepared By:
PELOTON
LAND SOLUTIONS
9800 HILLWOOD PARKWAY, SUITE 250
FORT WORTH, TX 76177
PHONE: 817-562-3350
Sources: Esri, DeLorme, NAVTEQ, TomTom, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand)
Date: 8/17/2020
File Path: J:\Job\DC41600\1\District\ENV\GIS\MXD\WAP\LEX2 Local Area Map.mxd

SHEET NO. 3

GRAPHIC SCALE

0 500 Feet

N W E S

Tannery Dam

Aerial Exhibit

Oak Point ETJ, Denton County, Texas

Prepared By:

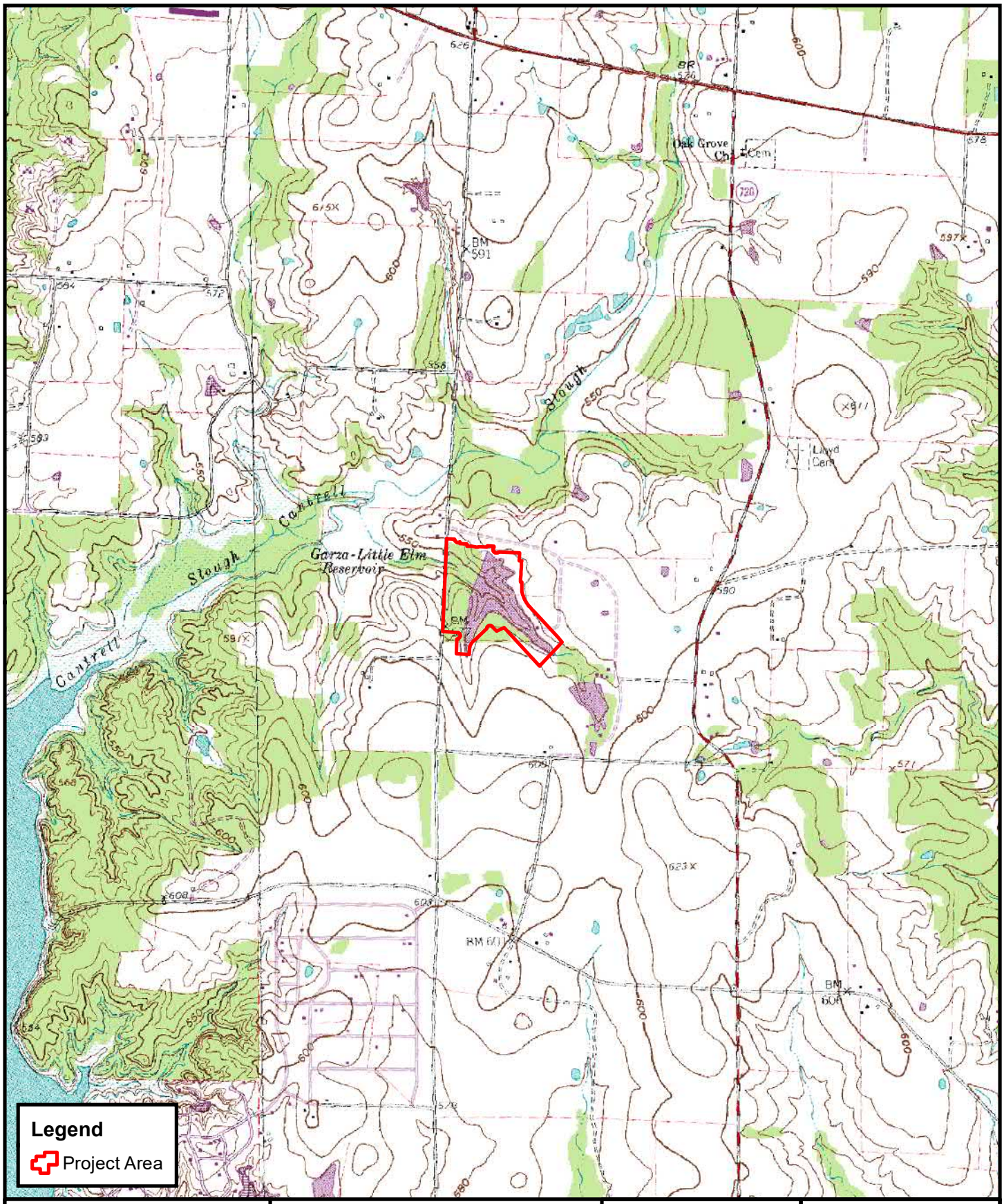
PELOTON LAND SOLUTIONS

9800 HILLWOOD PARKWAY, SUITE 250
FORT WORTH, TX 76177
PHONE: 817-562-3350

Sources: NAIP 2018

Date: 3/23/2021

File Path: J:\Job\DC41600\1\District\ENV\GIS\MXD\WAP\Ex3 Aerial Map.mxd



Legend

Project Area

SHEET NO. 4

GRAPHIC SCALE

0 2,000 Feet

N W E S

Tannery Dam

USGS Topographic Exhibit

Oak Point ETJ, Denton County, Texas

Sources: USGS Denton East (1974) and Little Elm (1969) Quads

Prepared By:

PELOTON LAND SOLUTIONS

9800 HILLWOOD PARKWAY, SUITE 250
FORT WORTH, TX 76177
PHONE: 817-562-3350

Date: 8/17/2020

File Path: J:\Job\DC411600\1\District\ENV\GIS\MXD\WAP\Ex4 USGS Topographic Map.mxd

ATTACHMENT 5

Worksheet 2.0 – Dam Safety Documents

Texas Commission on Environmental Quality

INFORMATION SHEET: PROPOSED NEW CONSTRUCTION, MODIFICATION, REPAIR, ALTERATION, OR REMOVAL OF A DAM

(PLEASE PRINT OR TYPE)

Reference 30 Texas Administrative Code, Chapter 299, Dams and Reservoirs

PLEASE CHECK ONE: ☐ New ☒ Modification ☐ Repair ☐ Removal ☐ Alteration

SECTION 1: OWNER INFORMATION

Owner's Name Josh Kahn Title Attorney
Organization Denton County Municipal District No. 4
I have authorized the submittal of the final construction plans and specifications to the TCEQ Dam Safety Program according to 30 TAC Chapter 299.

(Signature of Owner) *(Date)* 3/24/2021

Owner's Address Sanford Kuhl Hagan Krugle Parker Kahn LLP, 1980 Post Oak Blvd. Suite 1380
City Houston State TX Zip Code 77056
Phone Number ( ) (713) 8500-9000 Emergency Contact Phone ( )
Fax Number ( ) E-mail [redacted]
Owner Code *(Please check one)*: ☐ Federal (F) ☒ Local Government (L) ☐ Utility (U) ☐ Private (P) ☐ State (S)
☐ Other (O) please specify:

Dam and Reservoir Use *(Please check one)*: ☐ Augmentation ☐ Diversion ☐ Domestic ☐ Erosion Control ☐ Evaporation ☐ Flood Control ☐ Fire Control ☐ Fish ☐ Hydroelectric ☐ Industrial ☐ Irrigation ☐ Mining ☐ Municipal ☐ Pollution Control ☒ Recreation ☐ Stock Water ☐ Settling Ponds ☐ Tailings ☐ Waste Disposal ☐ Other, please specify:

Engineering Firm Peloton Land Solutions,
Project Engineer Christopher P. Frerich Texas P.E. License Number 119266
Engineering Firm Address 9800 Hillwood Pkwy, Suite 250
City Fort Worth State TX Zip Code 76177
Phone ( ) (817)562-3350 Fax ( )
E-mail [redacted]

SECTION 2: GENERAL INFORMATION

Name of Dam Tannery Dam
Other Name(s) of Dam
Reservoir Name Tannery Lake
Location Oak Point ETJ Latitude 33.204113 Longitude -96.989367
County Denton Stream Name Tributary to Cantrell Slough
River Basin Elm Fork Trinity Topographic Map No.
Distance and Direction from Nearest City or Town 2 Miles South of Oak Point
TX Number TX00601 Water Rights Number

If you have questions on how to fill out this form or about the Dam Safety Program, please contact us at 512-239-5195. Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact us at 512-239-3282.

SECTION 3: INFORMATION ON DAM

Classification

Size Classification: ☐ Large ☐ Medium ☒ Small

Hazard Classification: ☒ High ☐ Significant ☐ Low

Number of People at Risk 3 homes, 7 people Study Year _____

Type of Dam: ☐ Concrete ☐ Gravity ☒ Earthfill ☐ Rockfill ☐ Masonry ☐ Other (specify) _____

Dam Structure (dimensions to nearest tenth of foot, volume to nearest acre-foot or cubic yard, areas to nearest acre):

Spillway Height 29.9 ft *(natural surface of ground to bottom of emergency spillway at longitudinal centerline)*
Embankment Height 25.5 ft *(natural surface of ground to crest of dam at centerline)*
Structural Height 25.5 ft *(bottom of cutoff trench to crest of dam at centerline)*
Length of Dam 750 ft Crest Width _____ ft
Normal Pool Elevation 571.40 ft-MSL Principal Spillway Elevation 571.40 ft-MSL
Emergency Spillway Elevation 575.40 ft-MSL Top of Dam Elevation 578.50 ft-MSL
Embankment Volume 15,575 cu yd
Maximum Impoundment Capacity 258 ac-ft *(at top of dam)*
Normal Reservoir Capacity 105 ac-ft *(at normal or conservation pool)*
Reservoir Surface Area 13 acres *(at normal or conservation pool)*

Outlet

Outlet Diameter: 48 ☒ in ☐ ft *(check one)*
Type: Reinforced Concrete Pipe

Principal Spillway

Type: ☐ Natural ☐ Riprap ☐ Concrete ☐ CMP ☒ RCP ☐ Other
Width (Diam.): _____ ft Capacity: 143 cfs

Emergency Spillway

Type: ☒ Natural ☐ Riprap ☐ Concrete ☐ CMP ☐ RCP ☐ Other
Width (Diam.): 75 ft Capacity: 1926 cfs
Total Spillway Capacity: 2205 cfs (crest of the dam)

SECTION 4: HYDROLOGIC INFORMATION

Required Hydrologic Criteria (% PMF) 75% % PMF Passing 75%
PMF Study Year 2021
Drainage Area: _____ acres, or 0.4883 sq mi
Curve Number (AMC III condition) 86
Time of Concentration 55.2 hr
Peak Discharge 1926 cfs
Peak Stage 577.64 ft-MSL
Storm Duration Causing Peak Stage 1-hr hr

Texas Commission on Environmental Quality

HYDROLOGIC AND HYDRAULIC (H&H) EVALUATION SUMMARY

(Please complete **all** sections, unless otherwise specified)

Name of Dam: Tannery Dam

TCEQ Dam Safety Project No.: TX00601

County: Denton

Year to Build: 2021

Maximum Record Precipitation (in): 16.29 inches/month

Record Area (county or city): TWDB quadrant 411

Duration (hr): 720

Date of Record (MM/DD/YY): May 1982

Source Ref. (FEMA, National Weather Service, etc.): TWDB

Downstream Dam Toe 553 (ft-MSL) Normal Reservoir Capacity 105 (ac-ft)

Normal Pool 571.4 (ft-MSL) Maximum Reservoir Capacity 258 (ac-ft)

Principal Spillway 571.4 (ft-MSL) Reservoir Surface Area 13 (ac)

Emergency Spillway 575.4 (ft-MSL) Drainage Area 312.6 (ac)

Top of Dam 578.5 (ft-MSL) Outlet Diameter or Cross-Section 48 (in)

Storm Duration	Peak Inflow (cfs)	Peak Outflow (cfs)	Peak Stage (ft-MSL)	% PMF Passing	Comments (if needed)
1 hr	3310	2646	578.51	99%	Overtopped
2 hr	2816	2373	578.18	100%	
3hr	2530	2052	577.79	100%	
6 hr	1993	1927	577.64	100%	
12 hr	1352	1351	576.93	100%	
24 hr	906	905	576.39	100%	
48 hr					
72 hr	380.5	380.5	575.75	100%	

To the best of my knowledge, I certify the above data are correct. I will supply the hydrologic and hydraulic reports to the Texas Commission on Environmental Quality upon request.

Chris Frerich

(Signature)

03/23/2021

(Date)

TCEQ-20346 (1/07)

ATTACHMENT 6

Special Warranty Deed for Structure Location

**** Electronically Filed Document ****

Denton County
Cynthia Mitchell
County Clerk

Document Number: 2008-19220
Recorded As : ERX-WARRANTY DEED

Recorded On:	February 25, 2008
Recorded At:	02:40:05 pm
Number of Pages:	13
Recording Fee:	$59.00

Parties:

Direct- MAW CROSS OAK RANCH LP

Indirect-

Receipt Number:	461501
Processed By:	Jane Morris

********** THIS PAGE IS PART OF THE INSTRUMENT **********

Any provision herein which restricts the Sale, Rental or use of the described REAL PROPERTY because of color or race is invalid and unenforceable under federal law.

THE STATE OF TEXAS}
COUNTY OF DENTON}

I hereby certify that this instrument was FILED in the File Number sequence on the date/time printed heron, and was duly RECORDED in the Official Records of Denton County, Texas.

County Clerk
Denton County, Texas

#12

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

SPECIAL WARRANTY DEED

THE STATE OF TEXAS §
§ KNOW ALL MEN BY THESE PRESENTS:
COUNTY OF DENTON §

GRANTOR: MAW Cross Oak Ranch, LP, a Texas limited partnership
Galleria Tower Two
13455 Noel Road, 23RD Floor
Dallas, Dallas County, Texas 75240

GRANTEE: MUNICIPAL UTILITY DISTRICT NO. 5
1450 E. McKinney St.
Denton, Denton County, Texas

That Grantor, for and in consideration of the sum of TEN AND NO/100 DOLLARS ($10.00) cash and other good and valuable consideration to it in hand paid by Grantee, the receipt of which is hereby acknowledged and confessed has GRANTED, SOLD and CONVEYED, and by these presents does GRANT, SELL and CONVEY, unto the Grantee, the Property described herein to wit:.

> The property described on the attached **Exhibit A**, which is incorporated herein by reference as if set forth in full, and according to the map or plat thereof recorded at Cabinet X, Pages 573-576, of the Official Plat and Map Records of Denton County, Texas (hereinafter the "Property").

This conveyance, however, is made and accepted subject to any and all restrictions, encumbrances, easements, covenants, conditions, and reservations, if any, to the extent that such exceptions are valid, subsisting and, in fact, affect the Property.

TO HAVE AND TO HOLD the Property, together with all and singular the rights and appurtenances thereto in anyway belonging, unto Grantee, its heirs and assigns forever; and Grantor does hereby bind itself, its heirs, successors and assigns, to WARRANT AND FOREVER DEFEND all and singular the Property unto the Grantee, its heirs and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof, when the claim is by, through or under Grantor, but not otherwise.

THIS CONVEYANCE IS MADE AND ACCEPTED by Grantee SUBJECT TO (i) taxes for the current year, which have been prorated as of the date of closing, the payment of which Grantee assumes; (ii) all subsequent tax assessments for the current year and prior years due to change in land usage, ownership, or both, the payment of which Grantee assumes and Grantee hereby affirms its obligations to pay such subsequent taxes accruing for all periods prior to and up through the date of this Deed, and agrees to indemnify and defend Grantor and hold Grantor harmless from and against any and all costs, expenses or claims of any nature whatsoever, known or unknown, direct or indirect, in connection with such taxes; (iii) the Restrictions filed December 30, 2002, Volume 5242, Page 533, Official Real Property Records, Denton County, Texas, all other restrictions, covenants, conditions, easements, reservations,

leases, mineral severances, and other instruments that affect the Property and as may or may not be shown in the public records of Denton County, Texas; and (iv) all zoning laws, regulations and ordinances of municipal and/or other governmental authorities that affect the Property.

When the context requires, singular nouns and pronouns include the plural.

EXECUTED on the 21st day of February, 2008, to be effective December 15, 2007.

MAW Cross Oak Ranch, LP
a Texas limited partnership

By: MAW Cross Oak Holdings, LLC
its General Partner

By: _____
Deborah A. Thomas, Manager

ACKNOWLEDGMENT

STATE OF TEXAS §
§
COUNTY OF DALLAS §

This instrument was acknowledged before me on the 21st day of February, 2008, by Deborah A. Thomas, Manager, MAW Cross Oak Holdings, LLC, Grantor in above Special Warranty Deed.

WENDY C KERR
NOTARY PUBLIC
State of Texas
Comm. Exp. 05-15-2010

_____
NOTARY PUBLIC, STATE OF TEXAS

AFTER RECORDING RETURN TO:
MAW Cross Oak Ranch, LP
13455 Noel Road
Galleria Tower II, 23rd Floor
Dallas, Texas 75240

EXHIBIT A
Legal Description

LEGAL DESCRIPTION
0.773 ACRES

BEING A 0.773 ACRE TRACT OF LAND SITUATED IN THE MARCELLA JONES SURVEY, ABSTRACT NO. 662, DENTON COUNTY, TEXAS, AND BEING ALL OF M.U.D. TRACT 3 (CALLED 0.902 ACRES), CROSS OAK RANCH, PHASE 3, TRACT 11, AN ADDITION TO THE CITY OF OAK POINT RECORDED IN CABINET X, PAGES 573-576, PLAT RECORDS, DENTON COUNTY, TEXAS. SAID 0.773 ACRE TRACT, WITH REFERENCE BEARINGS BASED ON SAID CROSS OAK RANCH, PHASE 3, TRACT 11, BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

BEGINNING AT A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR THE NORTHEAST CORNER OF SAID M.U.D. TRACT 3 AND BEING ON THE SOUTH RIGHT-OF-WAY OF CLOVIS ROAD (A 50' RIGHT-OF-WAY);

THENCE SOUTH 00 DEGREES 00 MINUTES 28 SECONDS WEST, ALONG THE EAST LINE OF SAID M.U.D. TRACT 3, A DISTANCE OF 305.03 FEET A CONCRETE MONUMENT WITH A ALUMINUM DISC STAMPED "CARTER BURGESS" SET FOR THE SOUTHEAST CORNER OF SAID M.U.D. TRACT AND BEING ON THE NORTH RIGHT-OF-WAY OF MARTOP ROAD (A VARIABLE WIDTH RIGHT-OF-WAY);

THENCE NORTH 90 DEGREES 00 MINUTES 00 SECONDS WEST, ALONG THE SOUTH LINE OF SAID M.U.D. TRACT 3 AND THE COMMON NORTH RIGHT-OF-WAY OF SAID MARTOP ROAD, A DISTANCE OF 112.83 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR THE SOUTHWEST CORNER OF SAID M.U.D. TRACT 3 AND BEING AT THE INTERSECTION OF THE NORTH RIGHT-OF-WAY OF SAID MARTOP ROAD AND THE EAST RIGHT-OF-WAY OF LONGHORN DRIVE (A VARIABLE WIDTH RIGHT-OF-WAY RECORDED IN CABINET V, PAGES 638-639, PLAT RECORDS, DENTON COUNTY, TEXAS);

THENCE ALONG THE WEST LINE OF SAID M.U.D. TRACT 3 AND THE COMMON EAST RIGHT-OF-WAY OF SAID LONGHORN DRIVE THE FOLLOWING COURSES AND DISTANCES:

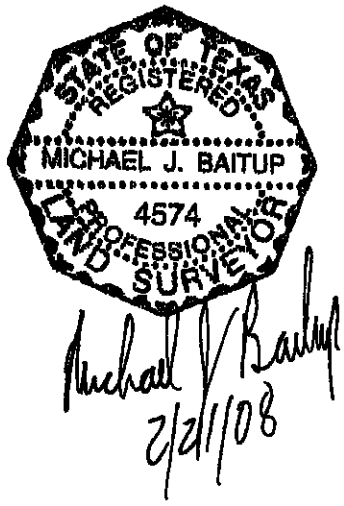
> NORTH 00 DEGREES 00 MINUTES 00 SECONDS EAST, A DISTANCE OF 205.72 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR CORNER AND THE BEGINNING OF A TANGENT CURVE TO THE LEFT HAVING A CENTRAL ANGLE OF 15 DEGREES 43 MINUTES 26 SECONDS, A RADIUS OF 270.00 FEET, A CHORD BEARING OF NORTH 07 DEGREES 51 MINUTES 43 SECONDS WEST, A CHORD LENGTH OF 73.86 FEET;

ALONG SAID TANGENT CURVE TO THE LEFT, AN ARC LENGTH OF 74.10 FEET, TO A CONCRETE MONUMENT WITH A ALUMINUM DISC STAMPED "CARTER BURGESS" SET FOR THE NORTHWEST CORNER OF SAID M.U.D. TRACT 3 AND BEING THE INTERSECTION OF THE EAST RIGHT-OF-WAY OF SAID LONGHORN DRIVE AND THE SOUTH RIGHT-OF-WAY OF SAID CLOVIS ROAD;

THENCE ALONG THE NORTH LINE OF SAID M.U.D. TRACT 3 AND THE SOUTH RIGHT-OF-WAY OF SAID CLOVIS ROAD THE FOLLOWING COURSES AND DISTANCES:

NORTH 74 DEGREES 18 MINUTES 44 SECONDS EAST, A DISTANCE OF 65.69 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR CORNER AND THE BEGINNING OF A TANGENT CURVE TO THE RIGHT HAVING A CENTRAL ANGLE OF 15 DEGREES 24 MINUTES 12 SECONDS, A RADIUS OF 225.01 FEET, A CHORD BEARING OF NORTH 82 DEGREES 00 MINUTES 51 SECONDS EAST, A CHORD LENGTH OF 60.31 FEET;

ALONG SAID TANGENT CURVE TO THE RIGHT, AN ARC LENGTH OF 60.49 FEET, TO THE **POINT OF BEGINNING**, CONTAINING, 0.773 ACRES OF LAND, MORE OR LESS.



LEGAL DESCRIPTION
43.574 ACRES

BEING A 43.574 ACRE TRACT OF LAND SITUATED IN THE MARCELLA JONES SURVEY, ABSTRACT NO. 662, DENTON COUNTY, TEXAS, AND BEING ALL OF M.U.D. TRACT 2, CROSS OAK RANCH, PHASE 3, TRACT 11, AN ADDITION TO THE CITY OF OAK POINT RECORDED IN CABINET X, PAGES 573-576, PLAT RECORDS, DENTON COUNTY, TEXAS. SAID 43.574 ACRE TRACT, WITH REFERENCE BEARINGS BASED ON SAID CROSS OAK RANCH, PHASE 3, TRACT 11, BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

BEGINNING AT NORTHWEST CORNER OF SAID M.U.D. TRACT 2 AND THE SOUTHWEST CORNER OF M.U.D. TRACT 1, CROSS OAK RANCH, PHASE 3, TRACT 11, AN ADDITION TO THE CITY OF OAK POINT RECORDED IN CABINET X, PAGES 573-576, PLAT RECORDS, DENTON COUNTY, TEXAS AND BEING ON THE EAST RIGHT-OF-WAY OF NAYLOR ROAD (A VARIABLE WIDTH RIGHT-OF-WAY);

THENCE NORTH 89 DEGREES 54 MINUTES 33 SECONDS EAST, ALONG THE NORTH LINE OF SAID M.U.D. TRACT 2 AND THE COMMON SOUTH LINE OF SAID M.U.D. TRACT 1, PASSING AT A DISTANCE OF 1127.15 FEET A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR THE SOUTHEAST CORNER OF SAID M.U.D. TRACT 1, CONTINUING A TOTAL DISTANCE OF 1147.15 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR THE NORTHEAST CORNER OF SAID M.U.D. TRACT 2;

THENCE ALONG THE EAST AND NORTHEAST LINE OF SAID M.U.D. TRACT 2 THE FOLLOWING COURSES AND DISTANCES:

SOUTH 00 DEGREES 05 MINUTES 27 SECONDS EAST, A DISTANCE OF 61.02 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR CORNER AND THE BEGINNING OF A TANGENT CURVE TO THE LEFT HAVING A CENTRAL ANGLE OF 45 DEGREES 10 MINUTES 47 SECONDS, A RADIUS OF 410.00 FEET, A CHORD BEARING OF SOUTH 22 DEGREES 40 MINUTES 50 SECONDS EAST, A CHORD LENGTH OF 314.99 FEET;

ALONG SAID TANGENT CURVE TO THE LEFT, AN ARC LENGTH OF 323.30 FEET, TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR CORNER;

SOUTH 45 DEGREES 16 MINUTES 14 SECONDS EAST, A DISTANCE OF 1528.46 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR CORNER AND THE

BEGINNING OF A TANGENT CURVE TO THE RIGHT HAVING A CENTRAL ANGLE OF 39 DEGREES 16 MINUTES 21 SECONDS, A RADIUS OF 90.00 FEET, A CHORD BEARING OF SOUTH 25 DEGREES 38 MINUTES 03 SECONDS EAST, A CHORD LENGTH OF 60.49 FEET;

ALONG SAID TANGENT CURVE TO THE RIGHT, AN ARC LENGTH OF 61.69 FEET, TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR CORNER;

SOUTH 89 DEGREES 59 MINUTES 32 SECONDS EAST, A DISTANCE OF 35.49 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR CORNER;

SOUTH 00 DEGREES 00 MINUTES 28 SECONDS WEST, A DISTANCE OF 718.00 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR THE SOUTHEAST CORNER OF SAID M.U.D. TRACT 2 AND BEING ON THE NORTH RIGHT-OF-WAY OF CLOVIS ROAD (A 50.00 RIGHT-OF-WAY);

THENCE ALONG THE SOUTH LINE OF SAID M.U.D. TRACT 2 AND THE COMMON NORTH RIGHT-OF-WAY OF SAID CLOVIS ROAD:

NORTH 89 DEGREES 59 MINUTES 32 SECONDS WEST, A DISTANCE OF 5.06 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR CORNER AND THE BEGINNING OF A TANGENT CURVE TO THE LEFT HAVING A CENTRAL ANGLE OF 15 DEGREES 26 MINUTES 45 SECONDS, A RADIUS OF 275.00 FEET, A CHORD BEARING OF SOUTH 82 DEGREES 02 MINUTES 06 SECONDS WEST, A CHORD LENGTH OF 73.91 FEET;

ALONG SAID TANGENT CURVE TO THE LEFT, AN ARC LENGTH OF 74.13 FEET, TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR CORNER;

SOUTH 74 DEGREES 18 MINUTES 44 SECONDS WEST, A DISTANCE OF 70.39 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR CORNER AT THE INTERSECTION OF THE NORTH RIGHT-OF-WAY OF SAID CLOVIS ROAD AND THE NORTHEAST RIGHT-OF-WAY OF LONGHORN DRIVE (A VARIABLE WIDTH RIGHT-OF-WAY) AND THE BEGINNING OF A NON-TANGENT CURVE TO THE LEFT HAVING A CENTRAL ANGLE OF 18 DEGREES 52 MINUTES 27 SECONDS, A RADIUS OF 270.00 FEET, A CHORD BEARING OF NORTH 35 DEGREES 50 MINUTES 00 SECONDS WEST, A CHORD LENGTH OF 88.54 FEET;

THENCE ALONG THE NORTHEAST RIGHT-OF-WAY OF SAID LONGHORN DRIVE THE FOLLOWING COURSES AND DISTANCES:

ALONG SAID NON-TANGENT CURVE TO THE LEFT AN ARC LENGTH OF 88.94 FEET, TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR CORNER;

NORTH 45 DEGREES 16 MINUTES 14 SECONDS WEST, A DISTANCE OF 227.68 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR THE SOUTH CORNER OF LOT 1, BLOCK 11F, CROSS OAK RANCH, PHASE 3, TRACT 11, AN ADDITION TO THE CITY OF OAK POINT RECORDED IN CABINET X, PAGES 573-576, PLAT RECORDS, DENTON COUNTY, TEXAS;

THENCE NORTH 44 DEGREES 43 MINUTES 46 SECONDS EAST, ALONG THE SOUTHEAST LINE OF SAID LOT 1, BLOCK 11F, A DISTANCE OF 120.00 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR THE EAST CORNER OF SAID LOT 1, BLOCK 11F;

THENCE NORTH 45 DEGREES 16 MINUTES 14 SECONDS WEST, A DISTANCE OF 1762.00 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR CORNER;

THENCE SOUTH 44 DEGREES 43 MINUTES 46 SECONDS WEST, A DISTANCE OF 120.00 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR CORNER;

THENCE NORTH 45 DEGREES 16 MINUTES 14 SECONDS WEST, A DISTANCE OF 96.75 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR CORNER AND THE BEGINNING OF A TANGENT CURVE TO THE LEFT HAVING A CENTRAL ANGLE OF 138 DEGREES 31 MINUTES 32 SECONDS, A RADIUS OF 50.00 FEET, A CHORD BEARING OF SOUTH 65 DEGREES 28 MINUTES 00 SECONDS WEST, A CHORD LENGTH OF 93.52 FEET;

THENCE ALONG SAID TANGENT CURVE TO THE LEFT, AN ARC LENGTH OF 120.89 FEET, TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR CORNER;

THENCE SOUTH 44 DEGREES 43 MINUTES 46 SECONDS WEST, A DISTANCE OF 304.87 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR CORNER;

THENCE SOUTH 22 DEGREES 20 MINUTES 21 SECONDS WEST, A DISTANCE OF 72.57 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR CORNER;

THENCE SOUTH 00 DEGREES 00 MINUTES 00 SECONDS EAST, A DISTANCE OF 117.46 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR CORNER;

THENCE NORTH 90 DEGREES 00 MINUTES 00 SECONDS WEST, A DISTANCE OF 199.45 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR CORNER;

THENCE NORTH 00 DEGREES 00 MINUTES 00 SECONDS EAST, A DISTANCE OF 225.00 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR CORNER AND THE BEGINNING OF A NON-TANGENT CURVE TO THE LEFT HAVING A CENTRAL ANGLE OF 180 DEGREES 00 MINUTES 00 SECONDS, A RADIUS OF 50.00 FEET, A CHORD BEARING OF NORTH 00 DEGREES 00 MINUTES 00 SECONDS EAST, A CHORD LENGTH OF 100.00 FEET;

THENCE ALONG SAID NON-TANGENT CURVE TO THE LEFT, AN ARC LENGTH OF 157.08 FEET, TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR CORNER;

THENCE NORTH 90 DEGREES 00 MINUTES 00 SECONDS WEST, A DISTANCE OF 205.78 FEET TO A POINT FOR THE SOUTHWEST CORNER OF SAID M.U.D. TRACT 2 AND BEING ON THE EAST RIGHT-OF-WAY OF SAID NAYLOR ROAD;

THENCE NORTH 00 DEGREES 15 MINUTES 16 SECONDS WEST, ALONG THE WEST LINE OF SAID M.U.D. TRACT 2 AND THE COMMON EAST RIGHT-OF-WAY OF SAID NAYLOR ROAD, A DISTANCE OF 802.21 FEET TO THE **POINT OF BEGINNING**, CONTAINING 43.574 ACRES OF LAND, MORE OR LESS.

Michael J. Baitup
2/21/08

LEGAL DESCRIPTION
11.392 ACRES

BEING A 11.392 ACRE TRACT OF LAND SITUATED IN THE MARCELLA JONES SURVEY, ABSTRACT NO. 662, DENTON COUNTY, TEXAS, AND BEING ALL OF M.U.D. TRACT 1, CROSS OAK RANCH, PHASE 3, TRACT 11, AN ADDITION TO THE CITY OF OAK POINT RECORDED IN CABINET X, PAGES 573-576, PLAT RECORDS, DENTON COUNTY, TEXAS. SAID 11.392 ACRE TRACT, WITH REFERENCE BEARINGS BASED ON SAID CROSS OAK RANCH, PHASE 3, TRACT 11, BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

BEGINNING AT THE SOUTHWEST CORNER OF SAID M.U.D. TRACT 1 AND THE NORTHWEST CORNER OF M.U.D. TRACT 2 CROSS OAK RANCH, PHASE 3, TRACT 11, AN ADDITION TO THE CITY OF OAK POINT RECORDED IN CABINET X, PAGES 573-576, PLAT RECORDS, DENTON COUNTY, TEXAS AND BEING ON THE EAST RIGHT-OF-WAY OF NAYLOR ROAD (A VARIABLE WIDTH RIGHT-OF-WAY);

THENCE ALONG THE WEST LINE OF SAID M.U.D. TRACT 1 AND THE COMMON EAST RIGHT-OF-WAY OF SAID NAYLOR ROAD THE FOLLOWING COURSES AND DISTANCES:

NORTH 00 DEGREES 15 MINUTES 16 SECONDS WEST, A DISTANCE OF 238.15 FEET TO A POINT FOR CORNER;

NORTH 00 DEGREES 26 MINUTES 06 SECONDS EAST, A DISTANCE OF 163.74 FEET TO A POINT FOR THE NORTHWEST CORNER OF SAID M.U.D. TRACT 1;

THENCE ALONG THE NORTH LINE OF SAID M.U.D. TRACT 1 THE FOLLOWING COURSES AND DISTANCES:

SOUTH 89 DEGREES 41 MINUTES 57 SECONDS EAST, A DISTANCE OF 360.87 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR CORNER;

NORTH 39 DEGREES 57 MINUTES 18 SECONDS EAST, A DISTANCE OF 6.93 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR CORNER;

NORTH 00 DEGREES 18 MINUTES 03 SECONDS EAST, A DISTANCE OF 99.67 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR CORNER;

SOUTH 89 DEGREES 41 MINUTES 57 SECONDS EAST, A DISTANCE OF 46.19 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR CORNER AND THE BEGINNING OF A NON TANGENT CURVE TO THE LEFT HAVING A CENTRAL ANGLE OF 77 DEGREES 46 MINUTES 24 SECONDS, A RADIUS OF 50.00 FEET, A CHORD BEARING OF NORTH 88 DEGREES 17 MINUTES 03 SECONDS EAST, A CHORD LENGTH OF 62.78 FEET;

ALONG SAID NON-TANGENT CURVE TO THE LEFT, AN ARC LENGTH OF 67.87 FEET, TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR CORNER;

SOUTH 89 DEGREES 41 MINUTES 57 SECONDS EAST, A DISTANCE OF 122.26 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR CORNER;

NORTH 00 DEGREES 18 MINUTES 03 SECONDS EAST, A DISTANCE OF 18.56 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR CORNER;

SOUTH 89 DEGREES 41 MINUTES 57 SECONDS EAST, A DISTANCE OF 100.00 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR CORNER;

SOUTH 00 DEGREES 18 MINUTES 03 SECONDS WEST, A DISTANCE OF 19.77 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR CORNER AND THE BEGINNING OF A NON-TANGENT CURVE TO THE LEFT HAVING A CENTRAL ANGLE OF 164 DEGREES 07 MINUTES 53 SECONDS, A RADIUS OF 50.00 FEET, A CHORD BEARING OF SOUTH 44 DEGREES 53 MINUTES 42 SECONDS EAST, A CHORD LENGTH OF 99.04 FEET;

ALONG SAID NON-TANGENT CURVE TO THE LEFT, AN ARC LENGTH OF 143.23 FEET, TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR CORNER;

NORTH 89 DEGREES 54 MINUTES 33 SECONDS EAST, A DISTANCE OF 319.35 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR THE NORTHEAST CORNER OF SAID M.U.D. TRACT 1;

THENCE ALONG THE EAST LINE OF SAID M.U.D. TRACT 1 THE FOLLOWING COURSES AND DISTANCES:

SOUTH 00 DEGREES 05 MINUTES 27 SECONDS EAST, A DISTANCE OF 115.00 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR CORNER;

NORTH 89 DEGREES 54 MINUTES 33 SECONDS EAST, A DISTANCE OF 40.00 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR CORNER;

SOUTH 00 DEGREES 05 MINUTES 27 SECONDS EAST, A DISTANCE OF 318.00 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "CARTER BURGESS" SET FOR THE SOUTHEAST CORNER OF SAID M.U.D. TRACT 1 AND BEING ON THE NORTH LINE OF SAID M.U.D. TRACT 2;

THENCE SOUTH 89 DEGREES 54 MINUTES 33 SECONDS WEST, ALONG THE SOUTH LINE OF SAID M.U.D. TRACT 1 AND THE COMMON NORTH LINE OF SAID M.U.D. TRACT 2, A DISTANCE OF 1127.15 FEET TO THE **POINT OF BEGINNING**, CONTAINING 11.392 ACRES OF LAND, MORE OR LESS.

Michael J. Baitup
2/21/08

Denton County
Cynthia Mitchell
County Clerk
Denton, TX 76202

Instrument Number: 2006-111745

As

Recorded On: September 11, 200€ **Warranty Deed**

Parties: PRIETO EDDIE **Billable Pages: 4**

To **Number of Pages: 4**

Comment:

**** Examined and Charged as Follows: ****

Warranty Deed	28.00
Total Recording:	**28.00**

************** THIS PAGE IS PART OF THE INSTRUMENT **************

Any provision herein which restricts the Sale, Rental or use of the described REAL PROPERTY because of color or race is invalid and unenforceable under federal law.

File Information:

Document Number: 2006-111745
Receipt Number: 321635
Recorded Date/Time: September 11, 2006 09:26A
User / Station: P Sallee - Cash Station 4

Record and Return To:

JOSH J KAHN
COATS ROSE YALE RYMAN & LEE PC
3 GREENWAY PLAZA SUITE 2000
HOUSTON TX 77046

THE STATE OF TEXAS }
COUNTY OF DENTON }

I hereby certify that this Instrument was FILED in the File Number sequence on the date/time printed heron, and was duly RECORDED in the Official Records of Denton County, Texas

County Clerk
Denton County, Texas

SPECIAL WARRANTY DEED

THE STATE OF TEXAS §
§ KNOW ALL MEN BY THESE PRESENTS:
COUNTY OF DENTON §

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OF THE FOLLOWING INFORMATION FORM THIS INSTRUMENT BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVERS LICENSE NUMBER.

THAT Eddie Prieto (hereinafter designated "Grantor"), for and in consideration of the sum of Ten Dollars ($10.00) and other good and valuable consideration cash in hand paid by MAW Cross Oak Ranch, LP, a Texas limited partnership (hereinafter designated "Grantee"), with an address of 13455 Noel Road, 23rd Floor, Dallas, Texas 75240, the receipt of which is hereby acknowledged, has granted, sold and conveyed, and by these presents does hereby grant, sell and convey unto Grantee, an undivided twenty percent (20%) interest in all of the real property in Denton County, Texas, described in Exhibit "A" attached hereto.

This Deed and conveyance is expressly made subject to all liens, encumbrances, conditions and other exceptions appearing of record in the office of the County Clerk of Denton County, Texas, and applicable to such property.

TO HAVE AND TO HOLD the above-described premises, together with all and singular the rights and appurtenances thereto in anywise belonging, unto the Grantee, its heirs and assigns, forever; and Grantor does hereby bind himself and his successors, to Warrant and Forever Defend all and singular the premises unto the said Grantee, its heirs and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof, by, through or under Grantor, but not otherwise.

EXECUTED as of the 15th day of June, 2005.

GRANTOR:

Eddie Prieto

Eddie Prieto

THE STATE OF TEXAS §
§
COUNTY OF DENTON §

This instrument was acknowledged before me on the 15th day of June, 2005 by Eddie Prieto in the capacity therein stated.

(Seal)

JOSH J KAHN
Notary Public, State of Texas
My Commission Expires
June 08, 2010

Notary Public in and for the
State of T E X A S

Josh J. Kahn

Name Printed or Typed
My Commission Expires: 6/8/2010

After Recording Please Return To:
Coats, Rose, Yale, Ryman & Lee, P.C.
Attn: Josh Kahn
3 Greenway Plaza, Suite 2000
Houston, Texas 77046

Exhibit "A"

PROPERTY DESCRIPTION
1.000 ACRE

BEING A 1.000 ACRE TRACT OF LAND SITUATED IN THE MARCELLA JONES SURVEY, ABSTRACT NO 662, DENTON COUNTY, TEXAS, AND BEING PART OF A 759.199 ACRE TRACT OF LAND, CONVEYED TO MAR-TOP RANCH, LTD. BY DEED RECORDED IN COUNTY CLERK'S FILE NO. 2001-R0092648, DENTON COUNTY, TEXAS, SAID 1.000 ACRE TRACT, WITH REFERENCE BEARING NORTH 00 DEGREES 15 MINUTES 16 SECONDS WEST BEING THE MONUMENTED SOUTHWEST LINE OF SAID 759.199 ACRE TRACT, BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

COMMENCING AT A 1/2" IRON ROD FOUND FOR THE SOUTHWEST CORNER OF SAID 759.199 ACRE TRACT, SAID POINT BEING AT THE INTERSECTION OF NAYLOR ROAD (A VARIABLE WIDTH PRESCRIPTIVE RIGHT-OF-WAY) AND MARTOP ROAD (A VARIABLE WIDTH PRESCRIPTIVE RIGHT-OF-WAY),

THENCE, SOUTH 89 DEGREES 59 MINUTES 59 SECONDS EAST, ALONG THE SOUTH LINE OF AFORESAID 759.199 ACRE TRACT, A DISTANCE OF 4410.48 FEET TO A 1/2" IRON ROD FOUND FOR THE SOUTHEAST CORNER OF AFORESAID 759.199 ACRE TRACT AND BEING IN AFORESAID MARTOP ROAD,

THENCE, OVER AND ACROSS AFORESAID 759.199 ACRE TRACT, THE FOLLOWING COURSES AND DISTANCES.

NORTH 50 DEGREES 33 MINUTES 24 SECONDS WEST, A DISTANCE OF 78.70 FEET TO A POINT FOR CORNER AND THE **POINT OF BEGINNING;**

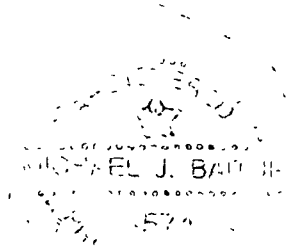
NORTH 89 DEGREES 59 MINUTES 59 SECONDS WEST, A DISTANCE OF 329 96 FEET TO A POINT FOR CORNER,

NORTH 00 DEGREES 00 MINUTES 01 SECONDS EAST, A DISTANCE OF 256.87 FEET TO A POINT FOR CORNER AND THE BEGINNING OF A NON-TANGENT CURVE TO THE LEFT HAVING A CENTRAL ANGLE OF 00 DEGREES 19 MINUTES 22 SECONDS, A RADIUS OF 637.78 FEET, AND A LONG CHORD THAT BEARS SOUTH 52 DEGREES 49 MINUTES 45 SECONDS EAST A DISTANCE OF 3.59 FEET;

ALONG SAID NON-TANGENT CURVE TO THE LEFT, AN ARC DISTANCE OF 3.59 FEET TO A POINT FOR CORNER,

SOUTH 52 DEGREES 59 MINUTES 32 SECONDS EAST, A DISTANCE OF 333.10 FEET TO A POINT FOR CORNER AND THE BEGINNING OF A TANGENT CURVE TO THE RIGHT HAVING A CENTRAL ANGLE OF 09 DEGREES 07 MINUTES 55 SECONDS, A RADIUS OF 512.96 FEET, AND A LONG CHORD THAT BEARS SOUTH 48 DEGREES 25 MINUTES 23 SECONDS EAST A DISTANCE OF 81 67 FEET;

ALONG SAID TANGENT CURVE TO THE RIGHT, AN ARC DISTANCE OF 81 76 FEET TO THE **POINT OF BEGINNING** AND CONTAINING 1 000 ACRES OF LAND, MORE OR LESS.



Michael J Bailey
01/03/02

ATTACHMENT 7

North Texas GCD Well Permit Documentation

NORTH TEXAS GROUNDWATER CONSERVATION DISTRICT

PRODUCTION PERMIT

Permit No. NPW015

Well Owner ("Permittee"):

Denton County MUD #5
1980 Post Oak Blvd, Suite 1380
Houston, TX 77056

Total Number of Wells: 1
Purpose of Use: Filling Pond(s)/Other Impoundment(s)
Aquifer: Woodbine

Well(s) Information:

ID	Well Name	Latitude	Longitude	Capacity	Drilling Deadline
NT-4930	Cross Oak Ranch #1	33.196972	-96.983583	55 GPM	-
NT-5024	Cross Oak Ranch #2	33.201606	-96.990211	55 GPM	2/3/2022

Term and Renewal: This permit is effective beginning on **6/8/2021**. This permit is perpetual in nature; provided, however, that the District will conduct inspections and will request information from a permit holder from time-to-time as required to ensure the accuracy and integrity of the District's information, and to enforce compliance with District Rules, the District Act, and Chapter 36 of the Texas Water Code.

Notice of Revocation: Failure to pay groundwater use fees, report pumpage, comply with District rules, orders, special provisions, and permit conditions can result in revocation of this permit.

Amount of Authorized Production: The amount of groundwater needed for use by Permittee for beneficial use, which shall not exceed: **500,000 gallons/year thereafter** for only that well or well system identified above.

Permit Conditions – This Permit is conditioned on each of the following precise terms:

1. This permit is granted subject to the District's rules, orders of the District Board of Directors, special provisions, permit conditions, and laws of the State of Texas, including but not limited to Chapter 36 of the Texas Water Code and the District's enabling legislation codified at Chapter 8856 of the Special District Local Laws Code.
2. Acceptance of this permit and production of groundwater under the authority granted herein by Permittee constitutes acknowledgement and agreement that Permittee is required to abide by the precise terms of this permit and comply with the District's rules, orders of the District Board of Directors, special provisions, permit conditions, and laws applicable to Permittee.
3. Violation of the terms of this permit shall result in enforcement in accordance with the District's Enforcement Policy and Civil Penalty Schedule, Chapter 36 of the Texas Water Code, and the District's enabling legislation codified at Chapter 8856 of the Special District Local Laws Code.
4. This permit does not confer any rights and/or privileges to Permittee other than those expressly set forth herein.

5. The well(s) identified in this permit shall be installed, equipped, operated, maintained, plugged, capped, or closed, as may be appropriate in accordance with the District's rules.
6. Permittee's production shall not exceed the Amount of Authorized Production set forth in this permit.
7. Produced groundwater shall be put to a beneficial use at all times. Operation of the well(s) under this permit shall be conducted in a manner so as to avoid waste, pollution, or harm to groundwater resources.
8. The well site shall be accessible to District representatives and/or agents for inspection during business hours and during emergencies. The Permittee agrees to cooperate fully in any reasonable monitoring or sampling of the well(s).
9. Permittee shall provide written notice to the District of any change of ownership, name of Permittee or Permittee's authorized representative, well operator, mailing address or telephone number in accordance with District rules.
10. Permittee shall reduce water production as required by District rules and orders of the Board of Directors, including but not limited to proportional adjustments issued based on achievement of the District's Desired Future Conditions, and/or adjustments due to times of drought and in accordance with the District's Drought Contingency Plan, as applicable.
11. The application pursuant to which this permit has been granted is incorporated herein, and this permit has been granted based on the accuracy thereof. A finding that false information has been supplied to the District shall be grounds for immediate revocation of this permit, and shall subject Permittee to enforcement.
12. This permit contains all matters approved by the District related to Permittee's use of groundwater, and all other matters requested by Permittee not included in this Permit are denied.
13. Any production of groundwater above the Authorized Production Amount, or above any additional amount as otherwise authorized by District Rules (e.g., initiation of Drought Buffer under District Rule 6.2), or a change to the well(s) or use authorized under this permit requires the submission of a Permit Amendment Application prior to such change being made.
14. In the event of a conflict between the terms of this permit and the application pursuant to which this permit has been granted, the terms of this permit shall prevail.

Special Conditions/Terms: None

District Approval	***Applicant Signature*** ***Required for permit to be effective***
Signature	*Signature*
Drew Satterwhite, P.E. *Print Name*	ANDREW MIZEREK *Print Name*
General Manager *Title*	DISTRICT ENGINEER *Title*
6/14/2021 *Date*	06/16/2021 *Date*

Return one signed original copy to the District at: P.O. Box 508, Gainesville, TX 76241

ATTACHMENT 8

Addendum to Worksheet 5

a. Indicate the measures the applicant will take to avoid impingement and entrainment of aquatic organisms.

No impingement or entrainment of aquatic resources is anticipated since water will be allows to flow out naturally through the proposed outlet (no screens on the outlet pipe are proposed) and any organism that could potentially pass through the outlet pipe could find habitat downstream of the project area.

b. An assessment of the adequacy of the quantity and quality of flows remaining after the proposed diversion to meet instream uses and bay and estuary freshwater inflow requirements.

No diversion of state water will occur at this location. Additionally, no loss of water is proposed at this location. No water loss would result in no impact to bay and estuary freshwater inflows.

c. If groundwater is the alternate source, or groundwater or other surface water will be discharged into a watercourse provide reasonably current water chemistry information. If data for onsite well is not available, historic data collected from similar sized wells drawing water from the same aquifer may be provided.

Please Attachment 9 for sample data from the groundwater well.

ATTACHMENT 9

Water Chemistry Test Results

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

November 17, 2020

Miller Services
Miller Services
11000 Frisco St
Ste 400
Frisco, TX 75033

RE: Project: Marshall Miller
Pace Project No.: 75144340

Dear Miller Services:

Enclosed are the analytical results for sample(s) received by the laboratory on November 10, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Dallas

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ricky Lopez
[redacted]
(972)727-1123
Project Manager

Enclosures

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

CERTIFICATIONS

Project:	Marshall Miller
Pace Project No.:	75144340

Pace Analytical Services Dallas

Texas Certification T104704232-20-32
400 West Bethany Dr Suite 190, Allen, TX 75013
Florida Certification #: E871118
EPA# TX00074
Kansas Certification #: E-10388
Arkansas Certification #: 88-0647
Oklahoma Certification #: 8727
Louisiana Certification #: 30686
Iowa Certification #: 408

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

SAMPLE SUMMARY

Project: Marshall Miller
Pace Project No.: 75144340

Lab ID	Sample ID	Matrix	Date Collected	Date Received
75144340001	**None Provided**	Water	11/10/20 00:00	11/10/20 15:25

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

SAMPLE ANALYTE COUNT

Project: Marshall Miller
Pace Project No.: 75144340

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
75144340001	**None Provided**	EPA 200.7	CDP	5	PASI-D
		SM 2320B	LNM1	5	PASI-D
		SM 2540C	JAP2	1	PASI-D
		SM 4500-H+B	AME	1	PASI-D

PASI-D = Pace Analytical Services - Dallas

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

ANALYTICAL RESULTS

Project: Marshall Miller
Pace Project No.: 75144340

Sample: None Provided **Lab ID: 75144340001** Collected: 11/10/20 00:00 Received: 11/10/20 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Dallas							
Calcium	**90.2**	mg/L	1.0	1	11/12/20 16:00	11/13/20 12:44	7440-70-2	
Copper	ND	mg/L	0.020	1	11/12/20 16:00	11/13/20 12:44	7440-50-8	
Lead	ND	mg/L	0.010	1	11/12/20 16:00	11/13/20 12:44	7439-92-1	
Magnesium	**27.5**	mg/L	1.0	1	11/12/20 16:00	11/13/20 12:44	7439-95-4	
Sodium	**42.6**	mg/L	1.0	1	11/12/20 16:00	11/13/20 12:44	7440-23-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Dallas							
Alkalinity, Hydroxide (CaCO3)	ND	mg/L	20.0	1		11/16/20 15:26		
Alkalinity, Phenolphthalein	ND	mg/L	20.0	1		11/16/20 15:26		
Alkalinity, Total as CaCO3	**124**	mg/L	20.0	1		11/16/20 15:26		
Alkalinity,Bicarbonate (CaCO3)	**124**	mg/L	20.0	1		11/16/20 15:26		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		11/16/20 15:26		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Dallas							
Total Dissolved Solids	**547**	mg/L	25.0	1		11/11/20 11:01		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Dallas							
pH at 25 Degrees C	**6.6**	Std. Units	0.10	1		11/11/20 10:06		H1,H6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

QUALITY CONTROL DATA

Project: Marshall Miller
Pace Project No.: 75144340

QC Batch: 155214
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75144340001

METHOD BLANK: 706349 Matrix: Water
Associated Lab Samples: 75144340001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	11/13/20 12:12	
Copper	mg/L	ND	0.020	11/13/20 12:12	
Lead	mg/L	ND	0.010	11/13/20 12:12	
Magnesium	mg/L	ND	1.0	11/13/20 12:12	
Sodium	mg/L	ND	1.0	11/13/20 12:12	

LABORATORY CONTROL SAMPLE: 706350

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	10	10.1	101	85-115	
Copper	mg/L	1	1.0	101	85-115	
Lead	mg/L	1	1.1	107	85-115	
Magnesium	mg/L	10	10.2	102	85-115	
Sodium	mg/L	10	10.2	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 706351 706352

Parameter	Units	75144505001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	151000 ug/L	10	10	159	156	83	46	70-130	2	20	M1
Copper	mg/L	ND	1	1	1.0	1.0	104	101	70-130	3	20	
Lead	mg/L	ND	1	1	0.96	0.94	95	93	70-130	2	20	
Magnesium	mg/L	60100 ug/L	10	10	70.2	68.7	101	86	70-130	2	20	
Sodium	mg/L	1050000 ug/L	10	10	1060	1040	110	-160	70-130	3	20	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 706353 706354

Parameter	Units	75144505002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	146000 ug/L	10	10	156	159	97	124	70-130	2	20	
Copper	mg/L	ND	1	1	1.0	1.0	102	104	70-130	2	20	
Lead	mg/L	ND	1	1	0.95	0.96	94	95	70-130	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

QUALITY CONTROL DATA

Project: Marshall Miller
Pace Project No.: 75144340

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 706353 706354

Parameter	Units	75144505002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium	mg/L	58700 ug/L	10	10	69.0	69.9	102	112	70-130	1	20	
Sodium	mg/L	1030000 ug/L	10	10	1040	1060	170	310	70-130	1	20	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

QUALITY CONTROL DATA

Project: Marshall Miller
Pace Project No.: 75144340

QC Batch: 155425
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Dallas
Associated Lab Samples: 75144340001

METHOD BLANK: 707245 Matrix: Water
Associated Lab Samples: 75144340001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	11/16/20 15:19	

LABORATORY CONTROL SAMPLE: 707246

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	250	244	98	90-110	

SAMPLE DUPLICATE: 707247

Parameter	Units	75144470002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	96.0	98.0	2	20	

SAMPLE DUPLICATE: 707248

Parameter	Units	75144470003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	96.0	98.0	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

QUALITY CONTROL DATA

Project: Marshall Miller
Pace Project No.: 75144340

QC Batch: 155077
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Dallas
Associated Lab Samples: 75144340001

METHOD BLANK: 705698 Matrix: Water
Associated Lab Samples: 75144340001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	11/11/20 11:01	

LABORATORY CONTROL SAMPLE: 705699

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	250	100	85-115	

SAMPLE DUPLICATE: 705700

Parameter	Units	75144351001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	696	701	1	5	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

QUALITY CONTROL DATA

Project: Marshall Miller
Pace Project No.: 75144340

QC Batch: 155064
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75144340001

LABORATORY CONTROL SAMPLE: 705644

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
pH at 25 Degrees C	Std. Units	6	6.0	100	99-101	H6

SAMPLE DUPLICATE: 705645

Parameter	Units	75143445001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.1	0	20	H3,H6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

QUALIFIERS

Project: Marshall Miller
Pace Project No.: 75144340

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The Nelac Institute

ANALYTE QUALIFIERS

H1	Analysis conducted outside the EPA method holding time.
H3	Sample was received or analysis requested beyond the recognized method holding time.
H6	Analysis initiated outside of the 15 minute EPA required holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Marshall Miller
Pace Project No.: 75144340

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
75144340001	**None Provided**	EPA 200.7	155214	EPA 200.7	155277
75144340001	**None Provided**	SM 2320B	155425		
75144340001	**None Provided**	SM 2540C	155077		
75144340001	**None Provided**	SM 4500-H+B	155064		

Pace Analytical	Document Name: Sample Condition Upon Receipt	Document Revised: 7/27/20 Page 1 of 1
	Document No.: F-DAL-C-001-rev.14	Issuing Authority: Pace Dallas Quality Office

Sample Condition Upon Receipt

☑Dallas ☐Ft Worth ☐Corpus Christi ☐Austin

WO# : 75144340

75144340

Client Name: Marshall Miller Project Work order

Courier: FedEX ☐ UPS ☐ USPS ☐ Client ☑ LSO ☐ PACE ☐ Other: _____

Tracking #: _____

Custody Seal on Cooler/Box: Yes ☐ No ☑

Received on ice: Wet ☐ Blue ☐ No ice ☑

Receiving Lab 1 Thermometer Used: IR-13 Cooler Temp °C: 24.8 (Recorded) +0.1 (Correction Factor) 24.9 (Actual)

Receiving Lab 2 Thermometer Used: _____ Cooler Temp °C: _____ (Recorded) _____ (Correction Factor) _____ (Actual)

Temperature should be above freezing to 6°C unless collected same day as receipt in which evidence of cooling is acceptable

Triage Person: JDW Date: 11/10/20

Chain of Custody relinquished	Yes ☑ No ☐
Sampler name & signature on COC	Yes ☐ No ☑
Short HT analyses (<72 hrs)	Yes ☐ No ☑

Login Person: JDW Date: 11/10/20

Sufficient Volume received	Yes ☑ No ☐
Correct Container used	Yes ☑ No ☐
Container Intact	Yes ☑ No ☐
Sample pH Acceptable pH Strips: 758235 Residual Chlorine Present Cl Strips: _____ Sulfide Present Lead Acetate Strips: _____	Yes ☐ No ☒ NA ☐ Yes ☐ No ☐ NA ☑ Yes ☐ No ☐ NA ☑
Are soil samples (volatiles, TPH) received in 5035A Kits (not applicable to TCLP VOA or PST Program TPH)	Yes ☐ No ☐ NA ☑
Unpreserved 5035A soil frozen within 48 hrs	Yes ☐ No ☐ NA ☑
Headspace in VOA (>6mm)	Yes ☐ No ☐ NA ☑
Project sampled in USDA Regulated Area outside of Texas State Sampled: _____	Yes ☐ No ☐ NA ☑
Non-Conformance(s):	Yes ☒ No ☐

Labeling Person (if different than log-in): _____ Date: _____

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

Section A Required Client Information:

Company: Miller Services
Address:
Email To:
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name:
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: TX

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COLLECTED: COMPOSITE START TIME	COLLECTED: COMPOSITE END/GRAB DATE	COLLECTED: COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1																		(see paper provided)		001
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

WO#: 75144340
PM: RJL Due Date: 11/17/20
CLIENT: Miller

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		11/10	3:25		11/10	15:25	24.9	N	N	N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

marshall@millerservicesinc.com

From: Andrew Mizerek [redacted]
Sent: Monday, November 9, 2020 9:01 AM
To: [redacted]
Cc: Sheri
Subject: Wells

Profile 8397

Importance: High

Marshall – just as a friendly reminder, we need your well information toda

1. Quote for a bigger pump and approx flow rate
2. Quote for additional wells
3. We need your well guy to register the existing well
4. Waiting for the rest of the well data (water quality, what aquifer, e

Marshall Miller
Water Bottles
- TDS
- Alk
- pH
- Pb/Cu/Na/Mg/Ca

PELOTON LAND SOLUTIONS

Andrew Mizerek, PE*, QSD/QSP
Project Manager
[e] [redacted]
[o] 469.213.1800
[c] 480.239.3646

FRISCO OFFICE
11000 Frisco Street, Suite 400
Frisco, Texas 75033

www.pelotonland.com
TBPE Firm No. 12207

*Registered in Arizona, California & Texas

400 W. Bethany
Suite 190
Allen 75013

Pace Analytical
Tim Hamling
972 727 1123

$250.00

3-5 days

Rich Lopez

WO#: 75144340
PM: RJL **Due Date: 11/17/20**
CLIENT: Miller

Pace Analytical
www.pacelabs.com

Sample Receiving Non-Conformance Form (NCF)

Date: 11/10120	Evaluated by: JDW
Client: Marshall Miller Services	

Af V

WO#: 75144340

PM: RJL **Due Date: 11/17/20**

CLIENT: Miller

1. If Chain-of-Custody (COC) is not received: contact client and if necessary, fill out a COC and indicate that it was filled out by lab personnel. Note issues on this NCF.

2. If COC is incomplete, check applicable issues below and add details where appropriate:

X	Collection date/time missing or incorrect	X	Analyses or analytes: missing or clarification needed		Samples listed on COC do not match samples received (missing, additional, etc.)
	Sample IDs on COC do not match sample labels		Required trip blanks were not received	X	Required signatures are missing

Comments/Details/Other Issues not listed above:

Collection date + time are missing from COC, as well as the analyses.
Sampler signature is missing from COC as well.
All Sample container also have no marking as well.
JDW/11/10120

3. Sample integrity issues: check applicable issues below and add details where appropriate:

	Samples: Past holding time		Samples: Condition needs to be brought to lab personnel's attention (details below)	X	Preservation: Improper
	Samples: Not field filtered		Containers: Broken or compromised	X	Temperature: not within acceptance criteria (typically 0-6C)
	Samples: Insufficient volume received		Containers: Incorrect		Temperature: Samples arrived frozen
	Samples: Cooler damaged or compromised		Custody Seals: Missing or compromised on samples, trip blanks or coolers		Vials received with improper headspace
	Samples: contain chlorine or sulfides		Packing Material: Insufficient/Improper		Other:

Comments/Details:

Samples not in temp, nor did they arrive on ice.
Metals container not preserved

4. If Samples not preserved properly and Sample Receiving adjusts pH, add details below:

Sample ID: 75144340-001	Date/Time: 11/10120 @ 1104	Amount/type pres added: 1mL HNO_3
Preserved by: JDW	Initial and Final pH: Initial: 7, Final: 0	Lot # of pres added: 174739
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:

5. Client Contact: If client is contacted for any issue listed above, fill in details below:

Client:	Contacted per:	
PM Initials:	Date/Time:	

Client Comments/Instructions:

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

March 31, 2021

Miller Services
Miller Services
11000 Frisco St
Ste 400
Frisco, TX 75033

RE: Project: Cross Oaks Ranch
Pace Project No.: 75152537

Dear Miller Services:

Enclosed are the analytical results for sample(s) received by the laboratory on March 24, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Dallas

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Courtney Hollins

Courtney Hollins
[redacted]
(972)727-1123
Project Manager

Enclosures

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

CERTIFICATIONS

Project: Cross Oaks Ranch
Pace Project No.: 75152537

Pace Analytical Services Dallas

Texas Certification T104704232-20-32
400 West Bethany Dr Suite 190, Allen, TX 75013
Florida Certification #: E871118
EPA# TX00074
Kansas Certification #: E-10388
Arkansas Certification #: 88-0647
Oklahoma Certification #: 8727
Louisiana Certification #: 30686
Iowa Certification #: 408

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

SAMPLE SUMMARY

Project: Cross Oaks Ranch
Pace Project No.: 75152537

Lab ID	Sample ID	Matrix	Date Collected	Date Received
75152537001	**Water Wel**	Water	03/24/21 12:30	03/24/21 14:17
75152537002	**Water Wel Green**	Water	03/24/21 12:30	03/24/21 14:17

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

SAMPLE ANALYTE COUNT

Project: Cross Oaks Ranch
Pace Project No.: 75152537

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
75152537001	**Water Wel**	EPA 300.0	JAP2	2	PASI-D
75152537002	**Water Wel Green**	EPA 300.0	JAP2	2	PASI-D

PASI-D = Pace Analytical Services - Dallas

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

ANALYTICAL RESULTS

Project: Cross Oaks Ranch
Pace Project No.: 75152537

Sample: Water Wel **Lab ID: 75152537001** Collected: 03/24/21 12:30 Received: 03/24/21 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Dallas							
Chloride	**52.8**	mg/L	4.0	5		03/31/21 15:08	16887-00-6	
Sulfate	**250**	mg/L	14.0	20		03/31/21 15:26	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

ANALYTICAL RESULTS

Project: Cross Oaks Ranch
Pace Project No.: 75152537

Sample: Water Wel Green **Lab ID: 75152537002** Collected: 03/24/21 12:30 Received: 03/24/21 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Dallas							
Chloride	**53.3**	mg/L	4.0	5		03/31/21 15:44	16887-00-6	
Sulfate	**248**	mg/L	14.0	20		03/31/21 16:02	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

QUALITY CONTROL DATA

Project: Cross Oaks Ranch
Pace Project No.: 75152537

QC Batch: 163829
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Dallas
Associated Lab Samples: 75152537001, 75152537002

METHOD BLANK: 743965 Matrix: Water
Associated Lab Samples: 75152537001, 75152537002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.80	03/31/21 10:22	
Sulfate	mg/L	ND	0.70	03/31/21 10:22	

LABORATORY CONTROL SAMPLE: 743966

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	5.0	100	90-110	
Sulfate	mg/L	5	4.9	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 743967 743968

Parameter	Units	75152469009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	19100	25000	25000	47000	46600	112	110	90-110	1	20	M6
Sulfate	mg/L	4360	2500	2500	7190	7170	113	112	90-110	0	20	M6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

QUALIFIERS

Project: Cross Oaks Ranch
Pace Project No.: 75152537

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The Nelac Institute

ANALYTE QUALIFIERS

M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Cross Oaks Ranch
Pace Project No.: 75152537

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
75152537001	**Water Wel**	EPA 300.0	163829		
75152537002	**Water Wel Green**	EPA 300.0	163829		

Pace Analytical®	Document Name: Sample Condition Upon Receipt	Document Revised: 7/27/20 Page 1 of 1
	Document No.: F-DAL-C-001-rev.14	Issuing Authority: Pace Dallas Quality Office

Sample Condition Upon Receipt

☑Dallas ☐Ft Worth ☐Corpus Christi ☐Austin

WO# : 75152537

75152537

Client Name: Miller Services Project Work order

Courier: FedEX ☐ UPS ☐ USPS ☐ Client ☑ LSO ☐ PACE ☐ Other: _____

Tracking #: _____

Custody Seal on Cooler/Box: Yes ☐ No ☑

Received on ice: Wet ☐ Blue ☐ No ice ☑

Receiving Lab 1 Thermometer Used: IR16 **Cooler Temp °C:** 24.0 (Recorded) 0 (Correction Factor) 24.0 (Actual)

Receiving Lab 2 Thermometer Used: _____ **Cooler Temp °C:** _____ (Recorded) _____ (Correction Factor) _____ (Actual)

Temperature should be above freezing to 6°C unless collected same day as receipt in which evidence of cooling is acceptable

Triage Person: TR Date: 3/24/21

Chain of Custody relinquished	Yes ☑ No ☐
Sampler name & signature on COC	Yes ☐ No ☑
Short HT analyses (<72 hrs)	Yes ☐ No ☐

Login Person: CK Date: 3/24/21

Sufficient Volume received	Yes ☑ No ☐
Correct Container used	Yes ☑ No ☐
Container Intact	Yes ☑ No ☐
Sample pH Acceptable pH Strips:_____ Residual Chlorine Present Cl Strips:_____ Sulfide Present Lead Acetate Strips:_____	Yes ☐ No ☐ NA ☑ Yes ☐ No ☐ NA ☑ Yes ☐ No ☐ NA ☑
Are soil samples (volatiles, TPH) received in 5035A Kits (not applicable to TCLP VOA or PST Program TPH)	Yes ☐ No ☐ NA ☑
Unpreserved 5035A soil frozen within 48 hrs	Yes ☐ No ☐ NA ☑
Headspace in VOA (>6mm)	Yes ☐ No ☐ NA ☑
Project sampled in USDA Regulated Area outside of Texas State Sampled:_____	Yes ☐ No ☐ NA ☑
Non-Conformance(s):	Yes ☐ No ☑

Labeling Person (if different than log-in): _____ Date: _____

Pace Analytical™
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Miller Services inc	Report To:	Attention:
Address:	Copy To:	Company Name:
		Address:
Email To:	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name:	Pace Project Manager:
Requested Due Date/TAT:	Project Number: Cross Oaks Ranch	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: TX

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / -)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: Sulfate Chloride	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	water wel			03/24	12:30																001
2	water wel green			03/24	12:30																002
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

WO#: 75152537
PM: CRH Due Date: 03/31/21
CLIENT: Miller

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Luis E Yanez	03/24	2:17	Ronica Robinson/Pace	3/24/21	1417	24.0	N	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev 08, 12-Oct-2007

ATTACHMENT 10

Accounting Plan & Accounting Plan Summary

Denton Co. MUD No. 4 (Tannery Dam)
Water Accounting Record
Annual Tab

Year	

Month	Groundwater Volume (ac-ft)	Default Evaporation (ac-ft)	Calculated Net Inflow (ac-ft)	Depleted Net Inflow (ac-ft)	Supplemental Groundwater Release (ac-ft)
January	0.00	3.41	3.41	3.41	3.41
February	0.00	4.20	4.20	4.20	4.20
March	0.00	6.51	6.51	6.51	6.51
April	0.00	8.10	8.10	8.10	8.10
May	0.00	9.30	9.30	9.30	9.30
June	0.00	10.80	10.80	10.80	10.80
July	0.00	13.02	13.02	13.02	13.02
August	0.00	11.78	11.78	11.78	11.78
September	0.00	9.00	9.00	9.00	9.00
October	0.00	6.82	6.82	6.82	6.82
November	0.00	4.50	4.50	4.50	4.50
December	0.00	3.72	3.72	3.72	3.72
Total	0.00	91.16	91.16	91.16	91.16

Denton Co. MUD No. 4 (Tannery Dam)
Water Accounting Record
January - Monthly Tab

Signed: _____
Date: _____

Lake Surface Area (acres) 13.17
Pan Factor 0.74

Day	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments
1		0.10	0.11	35844	35844	35844		
2		0.10	0.11	35844	35844	35844		
3		0.10	0.11	35844	35844	35844		
4		0.10	0.11	35844	35844	35844		
5		0.10	0.11	35844	35844	35844		
6		0.10	0.11	35844	35844	35844		
7		0.10	0.11	35844	35844	35844		
8		0.10	0.11	35844	35844	35844		
9		0.10	0.11	35844	35844	35844		
10		0.10	0.11	35844	35844	35844		
11		0.10	0.11	35844	35844	35844		
12		0.10	0.11	35844	35844	35844		
13		0.10	0.11	35844	35844	35844		
14		0.10	0.11	35844	35844	35844	501816	
15		0.10	0.11	35844	35844	35844		
16		0.10	0.11	35844	35844	35844		
17		0.10	0.11	35844	35844	35844		
18		0.10	0.11	35844	35844	35844		
19		0.10	0.11	35844	35844	35844		
20		0.10	0.11	35844	35844	35844		
21		0.10	0.11	35844	35844	35844		
22		0.10	0.11	35844	35844	35844		
23		0.10	0.11	35844	35844	35844		
24		0.10	0.11	35844	35844	35844		
25		0.10	0.11	35844	35844	35844		
26		0.10	0.11	35844	35844	35844		
27		0.10	0.11	35844	35844	35844		
28		0.10	0.11	35844	35844	35844		
29		0.10	0.11	35844	35844	35844		
30		0.10	0.11	35844	35844	35844		
31		0.10	0.11	35844	35844	35844		
Total (ac-ft)	0.00	3.40	3.41	3.41	3.41	3.41	3.41	
Total (gal)	0	1,108,627	1,111,152	1,111,164	1,111,164	1,111,164	1,111,164	

Denton Co. MUD No. 4 (Tannery Dam)
Water Accounting Record
February - Monthly Tab

Lake Surface Area (acres) 13.17
Pan Factor 0.71

Day	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments
1		0.14	0.15	48878	48878	48878		
2		0.14	0.15	48878	48878	48878		
3		0.14	0.15	48878	48878	48878		
4		0.14	0.15	48878	48878	48878		
5		0.14	0.15	48878	48878	48878		
6		0.14	0.15	48878	48878	48878		
7		0.14	0.15	48878	48878	48878		
8		0.14	0.15	48878	48878	48878		
9		0.14	0.15	48878	48878	48878		
10		0.14	0.15	48878	48878	48878		
11		0.14	0.15	48878	48878	48878		
12		0.14	0.15	48878	48878	48878		
13		0.14	0.15	48878	48878	48878		
14		0.14	0.15	48878	48878	48878	684292	
15		0.14	0.15	48878	48878	48878		
16		0.14	0.15	48878	48878	48878		
17		0.14	0.15	48878	48878	48878		
18		0.14	0.15	48878	48878	48878		
19		0.14	0.15	48878	48878	48878		
20		0.14	0.15	48878	48878	48878		
21		0.14	0.15	48878	48878	48878		
22		0.14	0.15	48878	48878	48878		
23		0.14	0.15	48878	48878	48878		
24		0.14	0.15	48878	48878	48878		
25		0.14	0.15	48878	48878	48878		
26		0.14	0.15	48878	48878	48878		
27		0.14	0.15	48878	48878	48878		
28		0.14	0.15	48878	48878	48878	684292	

Denton Co. MUD No. 4 (Tannery Dam)
Water Accounting Record
March - Monthly Tab

Signed: _____
Date: _____

Lake Surface Area (acres) 13.17
Pan Factor 0.70

Day	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments
1		0.19	0.21	68429	68429	68429		
2		0.19	0.21	68429	68429	68429		
3		0.19	0.21	68429	68429	68429		
4		0.19	0.21	68429	68429	68429		
5		0.19	0.21	68429	68429	68429		
6		0.19	0.21	68429	68429	68429		
7		0.19	0.21	68429	68429	68429	479003	
8		0.19	0.21	68429	68429	68429		
9		0.19	0.21	68429	68429	68429		
10		0.19	0.21	68429	68429	68429		
11		0.19	0.21	68429	68429	68429		
12		0.19	0.21	68429	68429	68429		
13		0.19	0.21	68429	68429	68429		
14		0.19	0.21	68429	68429	68429	479003	
15		0.19	0.21	68429	68429	68429		
16		0.19	0.21	68429	68429	68429		
17		0.19	0.21	68429	68429	68429		
18		0.19	0.21	68429	68429	68429		
19		0.19	0.21	68429	68429	68429		
20		0.19	0.21	68429	68429	68429		
21		0.19	0.21	68429	68429	68429	479003	
22		0.19	0.21	68429	68429	68429		
23		0.19	0.21	68429	68429	68429		
24		0.19	0.21	68429	68429	68429		
25		0.19	0.21	68429	68429	68429		
26		0.19	0.21	68429	68429	68429		
27		0.19	0.21	68429	68429	68429	479003	
28		0.19	0.21	68429	68429	68429		
29		0.19	0.21	68429	68429	68429		
30		0.19	0.21	68429	68429	68429	205287	
31		0.19	0.21	68429	68429	68429		
Total (ac-ft)	0.00	6.46	6.51	6.51	6.51	6.51	6.51	
Total (gal)	0	2,106,390	2,121,290	2,121,299	2,121,299	2,121,299	2,121,299	

Denton Co. MUD No. 4 (Tannery Dam)
Water Accounting Record
April - Monthly Tab

Signed: _____
Date: _____

Lake Surface Area (acres) 13.17
Pan Factor 0.68

Day	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments
1		0.25	0.27	87980	87980	87980		
2		0.25	0.27	87980	87980	87980		
3		0.25	0.27	87980	87980	87980		
4		0.25	0.27	87980	87980	87980		
5		0.25	0.27	87980	87980	87980		
6		0.25	0.27	87980	87980	87980		
7		0.25	0.27	87980	87980	87980	615860	
8		0.25	0.27	87980	87980	87980		
9		0.25	0.27	87980	87980	87980		
10		0.25	0.27	87980	87980	87980		
11		0.25	0.27	87980	87980	87980		
12		0.25	0.27	87980	87980	87980		
13		0.25	0.27	87980	87980	87980		
14		0.25	0.27	87980	87980	87980	615860	
15		0.25	0.27	87980	87980	87980		
16		0.25	0.27	87980	87980	87980		
17		0.25	0.27	87980	87980	87980		
18		0.25	0.27	87980	87980	87980		
19		0.25	0.27	87980	87980	87980		
20		0.25	0.27	87980	87980	87980		
21		0.25	0.27	87980	87980	87980	615860	
22		0.25	0.27	87980	87980	87980		
23		0.25	0.27	87980	87980	87980		
24		0.25	0.27	87980	87980	87980		
25		0.25	0.27	87980	87980	87980		
26		0.25	0.27	87980	87980	87980		
27		0.25	0.27	87980	87980	87980	615860	
28		0.25	0.27	87980	87980	87980		
29		0.25	0.27	87980	87980	87980	175960	
30								
Total (ac-ft)	0.00	8.23	8.10	8.10	8.10	8.10	8.10	
Total (gal)	0	2,682,161	2,639,393	2,639,400	2,639,400	2,639,400	2,639,400	

Denton Co. MUD No. 4 (Tannery Dam)
Water Accounting Record
May - Monthly Tab

Signed: _____
Date: _____

Lake Surface Area (acres) 13.17
Pan Factor 0.61

Day	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments
1		0.27	0.3	97755	97755	97755		
2		0.27	0.3	97755	97755	97755		
3		0.27	0.3	97755	97755	97755		
4		0.27	0.3	97755	97755	97755		
5		0.27	0.3	97755	97755	97755		
6		0.27	0.3	97755	97755	97755		
7		0.27	0.3	97755	97755	97755	684285	
8		0.27	0.3	97755	97755	97755		
9		0.27	0.3	97755	97755	97755		
10		0.27	0.3	97755	97755	97755		
11		0.27	0.3	97755	97755	97755		
12		0.27	0.3	97755	97755	97755		
13		0.27	0.3	97755	97755	97755		
14		0.27	0.3	97755	97755	97755	684285	
15		0.27	0.3	97755	97755	97755		
16		0.27	0.3	97755	97755	97755		
17		0.27	0.3	97755	97755	97755		
18		0.27	0.3	97755	97755	97755		
19		0.27	0.3	97755	97755	97755		
20		0.27	0.3	97755	97755	97755		
21		0.27	0.3	97755	97755	97755	684285	
22		0.27	0.3	97755	97755	97755		
23		0.27	0.3	97755	97755	97755		
24		0.27	0.3	97755	97755	97755		
25		0.27	0.3	97755	97755	97755		
26		0.27	0.3	97755	97755	97755		
27		0.27	0.3	97755	97755	97755	684285	
28		0.27	0.3	97755	97755	97755		
29		0.27	0.3	97755	97755	97755		
30		0.27	0.3	97755	97755	97755	293265	
31		0.27	0.3	97755	97755	97755		
Total (ac-ft)	0.00	9.19	9.30	9.30	9.30	9.30	9.30	
Total (gal)	0	2,993,292	3,030,414	3,030,405	3,030,405	3,030,405	3,030,405	

Denton Co. MUD No. 4 (Tannery Dam)
Water Accounting Record
June - Monthly Tab

Signed: _____
Date: _____

Lake Surface Area (acres) 13.17
Pan Factor 0.68

Day	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments
1		0.33	0.36	117306	117306	117306		
2		0.33	0.36	117306	117306	117306		
3		0.33	0.36	117306	117306	117306		
4		0.33	0.36	117306	117306	117306		
5		0.33	0.36	117306	117306	117306		
6		0.33	0.36	117306	117306	117306		
7		0.33	0.36	117306	117306	117306	821142	
8		0.33	0.36	117306	117306	117306		
9		0.33	0.36	117306	117306	117306		
10		0.33	0.36	117306	117306	117306		
11		0.33	0.36	117306	117306	117306		
12		0.33	0.36	117306	117306	117306		
13		0.33	0.36	117306	117306	117306		
14		0.33	0.36	117306	117306	117306	821142	
15		0.33	0.36	117306	117306	117306		
16		0.33	0.36	117306	117306	117306		
17		0.33	0.36	117306	117306	117306		
18		0.33	0.36	117306	117306	117306		
19		0.33	0.36	117306	117306	117306		
20		0.33	0.36	117306	117306	117306		
21		0.33	0.36	117306	117306	117306	821142	
22		0.33	0.36	117306	117306	117306		
23		0.33	0.36	117306	117306	117306		
24		0.33	0.36	117306	117306	117306		
25		0.33	0.36	117306	117306	117306		
26		0.33	0.36	117306	117306	117306		
27		0.33	0.36	117306	117306	117306		
28		0.33	0.36	117306	117306	117306	821142	
29		0.33	0.36	117306	117306	117306		
30		0.33	0.36	117306	117306	117306	234612	
Total (ac-ft)	0.00	10.87	10.80	10.80	10.80	10.80	10.80	
Total (gal)	0	3,540,453	3,519,191	3,519,180	3,519,180	3,519,180	3,519,180	

Denton Co. MUD No. 4 (Tannery Dam)
Water Accounting Record
July - Monthly Tab

Signed: _____
Date: _____

Lake Surface Area (acres) 13.17
Pan Factor 0.70

Day	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments
1		0.38	0.42	136857	136857	136857		
2		0.38	0.42	136857	136857	136857		
3		0.38	0.42	136857	136857	136857		
4		0.38	0.42	136857	136857	136857		
5		0.38	0.42	136857	136857	136857		
6		0.38	0.42	136857	136857	136857		
7		0.38	0.42	136857	136857	136857	957999	
8		0.38	0.42	136857	136857	136857		
9		0.38	0.42	136857	136857	136857		
10		0.38	0.42	136857	136857	136857		
11		0.38	0.42	136857	136857	136857		
12		0.38	0.42	136857	136857	136857		
13		0.38	0.42	136857	136857	136857		
14		0.38	0.42	136857	136857	136857	957999	
15		0.38	0.42	136857	136857	136857		
16		0.38	0.42	136857	136857	136857		
17		0.38	0.42	136857	136857	136857		
18		0.38	0.42	136857	136857	136857		
19		0.38	0.42	136857	136857	136857		
20		0.38	0.42	136857	136857	136857		
21		0.38	0.42	136857	136857	136857	957999	
22		0.38	0.42	136857	136857	136857		
23		0.38	0.42	136857	136857	136857		
24		0.38	0.42	136857	136857	136857		
25		0.38	0.42	136857	136857	136857		
26		0.38	0.42	136857	136857	136857		
27		0.38	0.42	136857	136857	136857		
28		0.38	0.42	136857	136857	136857	957999	
29		0.38	0.42	136857	136857	136857		
30		0.38	0.42	136857	136857	136857		
31		0.38	0.42	136857	136857	136857	410571	
Total (ac-ft)	0.00	12.93	13.02	13.02	13.02	13.02	13.02	
Total (gal)	0	4,212,781	4,242,580	4,242,567	4,242,567	4,242,567	4,242,567	

Denton Co. MUD No. 4 (Tannery Dam)
Water Accounting Record
August - Monthly Tab

Signed: _____
Date: _____

Lake Surface Area (acres) 13.17
Pan Factor 0.71

Day	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments
1		0.35	0.38	123823	123823	123823		
2		0.35	0.38	123823	123823	123823		
3		0.35	0.38	123823	123823	123823		
4		0.35	0.38	123823	123823	123823		
5		0.35	0.38	123823	123823	123823		
6		0.35	0.38	123823	123823	123823		
7		0.35	0.38	123823	123823	123823	866761	
8		0.35	0.38	123823	123823	123823		
9		0.35	0.38	123823	123823	123823		
10		0.35	0.38	123823	123823	123823		
11		0.35	0.38	123823	123823	123823		
12		0.35	0.38	123823	123823	123823		
13		0.35	0.38	123823	123823	123823		
14		0.35	0.38	123823	123823	123823	866761	
15		0.35	0.38	123823	123823	123823		
16		0.35	0.38	123823	123823	123823		
17		0.35	0.38	123823	123823	123823		
18		0.35	0.38	123823	123823	123823		
19		0.35	0.38	123823	123823	123823		
20		0.35	0.38	123823	123823	123823		
21		0.35	0.38	123823	123823	123823	866761	
22		0.35	0.38	123823	123823	123823		
23		0.35	0.38	123823	123823	123823		
24		0.35	0.38	123823	123823	123823		
25		0.35	0.38	123823	123823	123823		
26		0.35	0.38	123823	123823	123823		
27		0.35	0.38	123823	123823	123823		
28		0.35	0.38	123823	123823	123823	866761	
29		0.35	0.38	123823	123823	123823		
30		0.35	0.38	123823	123823	123823		
31		0.35	0.38	123823	123823	123823	371469	
Total (ac-ft)	0.00	11.91	11.78	11.78	11.78	11.78	11.78	
Total (gal)	0	3,880,193	3,838,525	3,838,513	3,838,513	3,838,513	3,838,513	

Denton Co. MUD No. 4 (Tannery Dam)
Water Accounting Record
September - Monthly Tab

Signed: _____
Date: _____

Lake Surface Area (acres) 13.17
Pan Factor 0.74

Day	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments
1		0.27	0.3	97755	97755	97755		
2		0.27	0.3	97755	97755	97755		
3		0.27	0.3	97755	97755	97755		
4		0.27	0.3	97755	97755	97755		
5		0.27	0.3	97755	97755	97755		
6		0.27	0.3	97755	97755	97755		
7		0.27	0.3	97755	97755	97755	684285	
8		0.27	0.3	97755	97755	97755		
9		0.27	0.3	97755	97755	97755		
10		0.27	0.3	97755	97755	97755		
11		0.27	0.3	97755	97755	97755		
12		0.27	0.3	97755	97755	97755		
13		0.27	0.3	97755	97755	97755		
14		0.27	0.3	97755	97755	97755	684285	
15		0.27	0.3	97755	97755	97755		
16		0.27	0.3	97755	97755	97755		
17		0.27	0.3	97755	97755	97755		
18		0.27	0.3	97755	97755	97755		
19		0.27	0.3	97755	97755	97755		
20		0.27	0.3	97755	97755	97755		
21		0.27	0.3	97755	97755	97755	684285	
22		0.27	0.3	97755	97755	97755		
23		0.27	0.3	97755	97755	97755		
24		0.27	0.3	97755	97755	97755		
25		0.27	0.3	97755	97755	97755		
26		0.27	0.3	97755	97755	97755		
27		0.27	0.3	97755	97755	97755	684285	
28		0.27	0.3	97755	97755	97755		
29		0.27	0.3	97755	97755	97755	195510	
30								
Total (ac-ft)	0.00	8.89	9.00	9.00	9.00	9.00	9.00	
Total (gal)	0	2,896,734	2,932,659	2,932,650	2,932,650	2,932,650	2,932,650	

Denton Co. MUD No. 4 (Tannery Dam)
Water Accounting Record
October - Monthly Tab

Signed: _____
Date: _____

Lake Surface Area (acres) 13.17
Pan Factor 0.78

Day	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments
1		0.20	0.22	71687	71687	71687		
2		0.20	0.22	71687	71687	71687		
3		0.20	0.22	71687	71687	71687		
4		0.20	0.22	71687	71687	71687		
5		0.20	0.22	71687	71687	71687		
6		0.20	0.22	71687	71687	71687		
7		0.20	0.22	71687	71687	71687	501809	
8		0.20	0.22	71687	71687	71687		
9		0.20	0.22	71687	71687	71687		
10		0.20	0.22	71687	71687	71687		
11		0.20	0.22	71687	71687	71687		
12		0.20	0.22	71687	71687	71687		
13		0.20	0.22	71687	71687	71687		
14		0.20	0.22	71687	71687	71687	501809	
15		0.20	0.22	71687	71687	71687		
16		0.20	0.22	71687	71687	71687		
17		0.20	0.22	71687	71687	71687		
18		0.20	0.22	71687	71687	71687		
19		0.20	0.22	71687	71687	71687		
20		0.20	0.22	71687	71687	71687		
21		0.20	0.22	71687	71687	71687	501809	
22		0.20	0.22	71687	71687	71687		
23		0.20	0.22	71687	71687	71687		
24		0.20	0.22	71687	71687	71687		
25		0.20	0.22	71687	71687	71687		
26		0.20	0.22	71687	71687	71687		
27		0.20	0.22	71687	71687	71687		
28		0.20	0.22	71687	71687	71687	501809	
29		0.20	0.22	71687	71687	71687		
30		0.20	0.22	71687	71687	71687		
31		0.20	0.22	71687	71687	71687	215061	
Total (ac-ft)	0.00	6.80	6.82	6.82	6.82	6.82	6.82	
Total (gal)	0	2,217,253	2,222,304	2,222,297	2,222,297	2,222,297	2,222,297	

Denton Co. MUD No. 4 (Tannery Dam)
Water Accounting Record
November - Monthly Tab

Signed: _____
Date: _____

Lake Surface Area (acres) 13.17
Pan Factor 0.81

Day	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments
1		0.14	0.15	48878	48878	48878		
2		0.14	0.15	48878	48878	48878		
3		0.14	0.15	48878	48878	48878		
4		0.14	0.15	48878	48878	48878		
5		0.14	0.15	48878	48878	48878		
6		0.14	0.15	48878	48878	48878		
7		0.14	0.15	48878	48878	48878	342146	
8		0.14	0.15	48878	48878	48878		
9		0.14	0.15	48878	48878	48878		
10		0.14	0.15	48878	48878	48878		
11		0.14	0.15	48878	48878	48878		
12		0.14	0.15	48878	48878	48878		
13		0.14	0.15	48878	48878	48878		
14		0.14	0.15	48878	48878	48878	342146	
15		0.14	0.15	48878	48878	48878		
16		0.14	0.15	48878	48878	48878		
17		0.14	0.15	48878	48878	48878		
18		0.14	0.15	48878	48878	48878		
19		0.14	0.15	48878	48878	48878		
20		0.14	0.15	48878	48878	48878		
21		0.14	0.15	48878	48878	48878	342146	
22		0.14	0.15	48878	48878	48878		
23		0.14	0.15	48878	48878	48878		
24		0.14	0.15	48878	48878	48878		
25		0.14	0.15	48878	48878	48878		
26		0.14	0.15	48878	48878	48878		
27		0.14	0.15	48878	48878	48878	342146	
28		0.14	0.15	48878	48878	48878		
29		0.14	0.15	48878	48878	48878	97756	
30								
Total (ac-ft)	0.00	4.61	4.50	4.50	4.50	4.50	4.50	
Total (gal)	0	1,502,010	1,466,330	1,466,340	1,466,340	1,466,340	1,466,340	

Denton Co. MUD No. 4 (Tannery Dam)
Water Accounting Record
December - Monthly Tab

Signed: _____
Date: _____

Lake Surface Area (acres) 13.17
Pan Factor 0.78

Day	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments
1		0.11	0.12	39102	39102	39102		
2		0.11	0.12	39102	39102	39102		
3		0.11	0.12	39102	39102	39102		
4		0.11	0.12	39102	39102	39102		
5		0.11	0.12	39102	39102	39102		
6		0.11	0.12	39102	39102	39102		
7		0.11	0.12	39102	39102	39102		
8		0.11	0.12	39102	39102	39102		
9		0.11	0.12	39102	39102	39102		
10		0.11	0.12	39102	39102	39102		
11		0.11	0.12	39102	39102	39102		
12		0.11	0.12	39102	39102	39102		
13		0.11	0.12	39102	39102	39102		
14		0.11	0.12	39102	39102	39102	547428	
15		0.11	0.12	39102	39102	39102		
16		0.11	0.12	39102	39102	39102		
17		0.11	0.12	39102	39102	39102		
18		0.11	0.12	39102	39102	39102		
19		0.11	0.12	39102	39102	39102		
20		0.11	0.12	39102	39102	39102		
21		0.11	0.12	39102	39102	39102		
22		0.11	0.12	39102	39102	39102		
23		0.11	0.12	39102	39102	39102		
24		0.11	0.12	39102	39102	39102		
25		0.11	0.12	39102	39102	39102		
26		0.11	0.12	39102	39102	39102		
27		0.11	0.12	39102	39102	39102		
28		0.11	0.12	39102	39102	39102		
29		0.11	0.12	39102	39102	39102		
30		0.11	0.12	39102	39102	39102		
31		0.11	0.12	39102	39102	39102	547428	
32		0.11	0.12	39102	39102	39102		
33		0.11	0.12	39102	39102	39102		
34		0.11	0.12	39102	39102	39102		
35		0.11	0.12	39102	39102	39102		
36		0.11	0.12	39102	39102	39102		
37		0.11	0.12	39102	39102	39102		
38		0.11	0.12	39102	39102	39102		
39		0.11	0.12	39102	39102	39102		
40		0.11	0.12	39102	39102	39102	117306	
41	**Total (ac-ft)**	0.00	3.74	3.72	3.72	3.72	3.72	3.72
42	**Total (gal)**	0	1,219,489	1,212,166	1,212,162	1,212,162	1,212,162	1,212,162

Denton Co. MUD No. 4 (Tannery Dam)
Water Accounting Record
Evap Data Tab

Month	Days in Month	TWDB 75th Percentile Monthly Rate (in)	Daily Pan Rate (in)	Pan Factor
January	31	2.34	0.10	0.74
February	28	2.80	0.14	0.71
March	31	4.23	0.19	0.70
April	30	5.03	0.25	0.68
May	31	5.14	0.27	0.61
June	30	6.82	0.33	0.68
July	31	8.16	0.38	0.70
August	31	7.60	0.35	0.71
September	30	6.02	0.27	0.74
October	31	4.74	0.20	0.78
November	30	3.44	0.14	0.81
December	31	2.73	0.11	0.78

Denton Co. MUD No. 4 (Tannery Dam)
Water Accounting Record
TWDB Pan Lake Factor Tab

TWDB Link
https://waterdatafortexas.org/lake-evaporation-rainfall

Texas Water Development Board
Monthly Pan Factor Used in Evap

Quad	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
410	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
411	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71
412	0.75	0.72	0.71	0.69	0.62	0.69	0.71	0.72	0.75	0.79	0.82	0.79	0.72
413	0.76	0.73	0.72	0.71	0.65	0.71	0.72	0.73	0.76	0.79	0.81	0.79	0.73
414	0.77	0.74	0.73	0.72	0.66	0.72	0.73	0.74	0.77	0.8	0.82	0.8	0.74
501	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
502	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
503	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
504	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
505	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
506	0.71	0.68	0.68	0.65	0.58	0.65	0.67	0.68	0.71	0.75	0.78	0.75	0.68
507	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69
508	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69
509	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
510	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
511	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71
512	0.75	0.72	0.71	0.69	0.62	0.69	0.71	0.72	0.75	0.79	0.82	0.79	0.72
513	0.76	0.73	0.72	0.71	0.65	0.71	0.72	0.73	0.76	0.79	0.81	0.79	0.73
514	0.77	0.74	0.73	0.72	0.66	0.72	0.73	0.74	0.77	0.8	0.82	0.8	0.74
601	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
602	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
603	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
604	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
605	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
606	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
607	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
608	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
609	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
610	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
611	0.74	0.71	0.7	0.69	0.63	0.69	0.7	0.71	0.74	0.77	0.79	0.77	0.71
612	0.75	0.72	0.71	0.69	0.62	0.69	0.71	0.72	0.75	0.79	0.82	0.79	0.72
613	0.75	0.73	0.73	0.72	0.67	0.72	0.73	0.73	0.75	0.78	0.79	0.78	0.73
614	0.76	0.74	0.74	0.73	0.68	0.73	0.74	0.74	0.76	0.79	0.8	0.79	0.74
701	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
702	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
703	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
704	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
705	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67

706	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
707	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
708	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
709	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
710	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
711	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73	0.76	0.77	0.76	0.71
712	0.74	0.72	0.72	0.71	0.66	0.71	0.72	0.72	0.74	0.77	0.78	0.77	0.72
713	0.75	0.73	0.73	0.72	0.67	0.72	0.73	0.73	0.75	0.78	0.79	0.78	0.73
714	0.76	0.74	0.74	0.73	0.68	0.73	0.74	0.74	0.76	0.79	0.8	0.79	0.74
801	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
802	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
803	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
804	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
805	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
806	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
807	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
808	0.71	0.69	0.69	0.68	0.63	0.68	0.69	0.69	0.71	0.74	0.75	0.74	0.69
809	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
810	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
811	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73	0.76	0.77	0.76	0.71
812	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
813	0.75	0.73	0.73	0.73	0.69	0.73	0.73	0.73	0.75	0.77	0.77	0.77	0.73
814	0.76	0.74	0.74	0.73	0.68	0.73	0.74	0.74	0.76	0.79	0.8	0.79	0.74
901	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
902	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
903	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
904	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
905	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
906	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
907	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
908	0.71	0.69	0.69	0.68	0.63	0.68	0.69	0.69	0.71	0.74	0.75	0.74	0.69
909	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
910	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
911	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73	0.76	0.77	0.76	0.71
912	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
913	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
914	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
1001	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1002	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1003	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
1004	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
1005	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
1006	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
1007	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1008	0.71	0.69	0.69	0.68	0.63	0.68	0.69	0.69	0.71	0.74	0.75	0.74	0.69
1009	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
1010	0.72	0.7	0.7	0.7	0.66	0.7	0.7	0.7	0.72	0.74	0.74	0.74	0.7

1011	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73	0.76	0.77	0.76	0.71
1012	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
1013	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
1014	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
1101	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1102	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1103	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
1104	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
1105	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
1106	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
1107	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1108	0.71	0.69	0.69	0.69	0.65	0.69	0.69	0.69	0.71	0.73	0.73	0.73	0.69
1109	0.72	0.7	0.7	0.7	0.66	0.7	0.7	0.7	0.72	0.74	0.74	0.74	0.7
1110	0.72	0.7	0.7	0.7	0.66	0.7	0.7	0.7	0.72	0.74	0.74	0.74	0.7
1111	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73	0.76	0.77	0.76	0.71
1112	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
1113	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
1114	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
1201	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1202	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1203	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
1204	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
1205	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
1206	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
1207	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1208	0.71	0.69	0.69	0.69	0.65	0.69	0.69	0.69	0.71	0.73	0.73	0.73	0.69
1209	0.72	0.7	0.7	0.7	0.66	0.7	0.7	0.7	0.72	0.74	0.74	0.74	0.7
1210	0.72	0.7	0.7	0.7	0.66	0.7	0.7	0.7	0.72	0.74	0.74	0.74	0.7
1211	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73	0.76	0.77	0.76	0.71
1212	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
1213	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
1214	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72

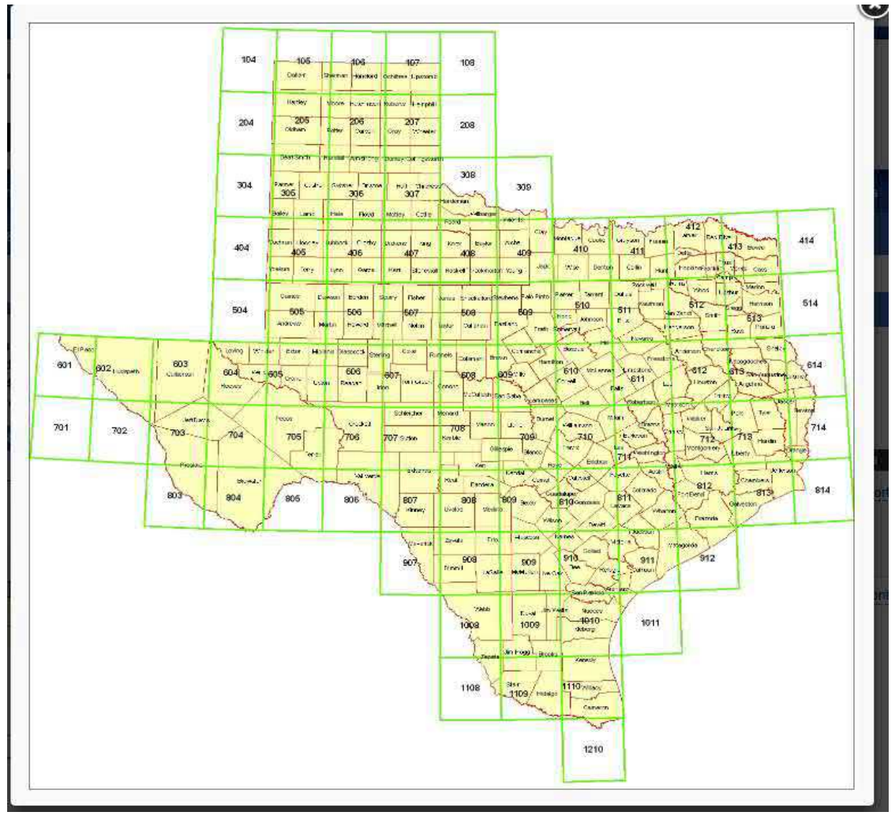
Denton Co. MUD No. 4 (Tannery Dam)
Water Accounting Record
TWDB Evap Tab

EVAP DATA SOURCE: https://waterdatafortexas.org/lake-evaporation-rainfall

Texas Water Development Board

Monthly lake surface evaporation in inches, annual total evaporation in inches

#QUAD	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
411	1954	1.23	4.22	4.94	5.55	4.06	6.96	9.25	10.61	7.37	4.25	2.99	2.44	63.87
411	1955	1.74	1.84	4.02	4.47	5.18	6.97	8.09	7.28	6.47	6.00	4.32	2.42	58.80
411	1956	2.08	2.20	4.85	5.78	6.13	8.44	9.43	11.14	8.82	5.43	3.36	2.63	70.29
411	1957	1.85	1.79	2.73	2.78	3.20	6.03	8.17	7.21	5.42	3.63	1.76	2.31	46.88
411	1958	1.40	1.56	2.37	3.49	4.18	6.56	8.50	6.81	4.54	3.57	3.17	1.69	47.84
411	1959	1.31	2.06	4.78	4.66	4.97	5.64	5.84	6.56	5.63	4.25	2.14	2.02	49.86
411	1960	1.42	1.93	2.86	4.33	5.13	6.79	6.50	6.26	5.10	3.48	2.60	1.32	47.72
411	1961	1.34	1.79	3.92	4.92	4.72	6.09	6.27	6.50	5.57	3.96	2.47	1.56	49.11
411	1962	1.61	2.61	3.72	4.00	6.09	5.03	6.30	6.91	4.67	4.17	2.31	1.47	48.89
411	1963	1.62	2.02	5.03	4.84	4.82	6.69	6.69	7.69	5.39	5.99	3.47	1.70	55.95
411	1964	1.91	2.14	3.92	4.61	4.75	6.81	9.36	7.83	4.17	4.45	2.55	2.25	54.75
411	1965	2.14	1.74	2.96	5.38	4.20	5.58	8.18	7.89	6.87	4.14	2.46	2.00	53.54
411	1966	1.48	1.48	4.70	4.47	4.32	5.81	7.55	5.78	4.18	4.55	3.55	1.77	49.64
411	1967	2.78	3.03	5.65	3.87	4.80	6.46	6.51	7.74	3.72	5.25	2.54	1.81	54.16
411	1968	1.11	1.80	3.45	4.12	4.10	5.70	6.21	7.16	4.98	4.36	3.08	2.43	48.50
411	1969	2.02	2.18	3.18	4.28	3.92	7.22	8.16	6.48	5.17	4.26	2.99	2.01	51.87
411	1970	0.92	2.64	2.76	3.90	4.95	5.46	7.50	7.31	4.92	3.49	3.41	2.74	50.00
411	1971	2.23	2.67	5.16	5.79	5.15	7.55	8.15	5.19	5.40	3.71	3.24	1.57	55.81
411	1972	1.72	2.80	4.35	5.48	5.19	7.13	8.45	5.80	5.53	4.60	2.36	1.63	55.04
411	1973	1.25	1.90	4.23	3.48	5.14	5.23	6.49	7.02	4.41	3.49	3.01	2.70	48.35
411	1974	1.53	3.65	4.56	5.84	5.61	6.73	8.17	6.19	3.22	3.89	2.75	1.41	53.55
411	1975	2.23	2.03	3.16	4.54	3.72	6.12	6.53	6.58	5.00	5.08	3.96	2.20	51.15
411	1976	3.17	3.83	3.68	4.15	3.98	5.68	6.12	6.73	5.39	3.75	2.40	2.74	51.62
411	1977	1.43	2.80	4.67	4.98	5.15	7.09	8.58	6.42	6.03	4.74	3.27	3.74	58.90
411	1978	1.40	1.42	3.35	5.30	5.02	7.05	9.60	7.83	5.52	4.71	2.54	2.52	56.26
411	1979	2.29	1.43	3.69	4.01	4.98	6.80	6.83	6.52	5.43	5.83	3.18	2.17	53.16
411	1980	2.16	2.77	4.05	5.10	4.74	8.25	10.47	9.92	7.43	5.21	2.82	2.12	65.04
411	1981	2.06	2.00	3.97	4.83	4.37	6.17	7.77	7.08	5.54	3.97	3.12	2.72	53.60
411	1982	2.40	1.92	3.44	3.99	3.97	5.23	6.79	7.35	5.81	4.27	2.81	1.67	49.65
411	1983	1.95	1.71	3.46	4.13	4.33	5.27	7.10	6.69	6.29	4.42	3.35	1.76	50.46
411	1984	1.59	3.02	3.51	4.90	5.36	6.62	7.57	7.55	6.85	3.71	3.33	1.56	55.57
411	1985	1.50	1.25	3.62	4.67	4.86	6.82	7.32	8.48	6.72	3.82	2.75	1.61	53.42
411	1986	2.81	2.45	4.81	4.02	3.94	5.76	8.92	7.53	5.11	3.09	1.87	1.37	51.68
411	1987	2.35	2.25	2.94	5.37	4.19	5.86	6.83	7.98	4.95	4.64	3.03	1.40	51.79
411	1988	2.14	2.32	3.50	5.10	5.79	7.42	7.19	7.77	5.05	4.41	3.60	2.09	56.38
411	1989	2.24	2.36	3.82	5.23	5.07	5.13	5.66	6.20	5.12	5.60	3.62	3.25	53.30
411	1990	2.95	2.46	2.97	3.61	4.36	7.06	7.67	6.67	5.23	4.21	3.27	1.65	52.11
411	1991	1.94	2.34	4.36	3.88	4.59	6.36	8.08	6.55	4.82	5.43	3.17	3.60	55.12
411	1992	2.37	2.26	4.06	4.15	3.90	5.24	6.99	5.62	4.72	4.89	2.80	1.93	48.93
411	1993	1.68	1.89	3.23	4.33	4.45	5.76	10.39	8.91	6.62	4.80	2.76	2.33	57.15
411	1994	1.89	1.62	3.96	4.65	3.61	6.00	6.70	6.23	4.65	3.81	2.56	1.40	47.26
411	1995	1.94	2.45	2.50	4.07	3.91	5.62	6.57	6.92	4.72	5.52	3.60	1.86	49.68
411	1996	2.77	5.29	4.06	5.42	5.94	6.34	7.11	4.81	3.89	5.27	3.62	3.13	57.65
411	1997	2.44	2.11	3.70	4.33	4.63	5.62	6.76	6.51	6.00	4.13	2.55	2.84	51.62
411	1998	1.40	1.79	3.00	5.26	5.26	7.94	8.54	7.40	5.78	4.01	2.16	1.37	53.91
411	1999	1.91	2.31	3.81	4.57	4.69	6.37	7.62	7.17	5.45	4.46	2.96	2.11	53.43
411	2000	3.09	3.78	3.39	3.84	4.48	4.77	6.61	7.65	6.04	4.24	2.39	3.35	53.54
411	2001	2.14	1.92	2.76	3.75	4.40	5.89	7.74	6.70	3.85	4.01	2.85	2.13	48.14
411	2002	2.10	2.92	3.20	3.99	4.06	5.83	5.56	6.33	5.11	3.16	2.48	2.53	47.27
411	2003	2.03	2.14	3.41	5.08	4.30	5.20	7.06	6.43	4.23	3.95	3.63	2.97	50.43
411	2004	2.10	2.14	4.00	4.00	4.57	4.50	6.06	5.87	5.22	3.60	2.24	2.70	47.00
411	2005	2.11	2.30	3.90	4.49	4.28	6.42	5.88	6.46	6.31	4.58	4.06	3.15	53.94
411	2006	4.30	2.98	4.47	4.89	5.45	6.64	8.49	8.34	5.58	4.71	3.17	2.79	61.81
411	2007	2.78	2.69	3.93	3.69	3.83	5.05	4.74	5.99	4.42	4.06	3.96	2.26	47.40
411	2008	2.47	3.03	4.01	4.66	4.77	6.76	7.85	5.84	4.49	4.28	3.86	2.81	54.83
411	2009	2.31	3.34	4.40	4.72	3.62	6.18	6.75	6.55	4.19	3.57	3.07	1.83	50.53
411	2010	2.32	2.88	3.88	4.64	4.98	6.38	6.45	7.48	4.94	3.62	2.93	3.30	53.80
411	2011	1.84	2.41	4.23	6.12	5.09	7.10	7.86	8.71	6.70	4.73	4.08	3.75	62.62
411	2012	2.42	2.75	4.10	3.92	5.83	6.41	8.09	7.69	6.20	4.09	3.77	2.07	57.58
411	2013	2.52	3.00	4.35	4.66	4.72	7.36	6.61	7.23	6.37	2.74	2.86	2.07	54.80
411	2014	1.84	2.43	2.07	5.33	5.84	6.00	6.54	7.23	5.89	4.84	3.51	1.97	53.72
411	2015	1.64	2.82	2.92	6.32	5.58	8.95	7.57	8.24	6.41	5.40	3.48	3.66	63.15
411	2016	2.12	3.32	4.03	4.55	4.67	6.72	8.50	4.63	4.00	4.77	3.47	1.93	52.88
411	2017	2.75	3.75	4.32	4.55	4.76	5.39	7.19	5.24	5.34	4.27	2.88	2.79	53.28
411	2018	2.39	1.82	3.90	3.98	5.60	7.17	7.92	6.60	3.33	2.88	3.33	2.56	51.94
411	2019	2.12	2.05	3.32	4.64	4.43	5.52	7.09	6.97	6.21	4.23	2.15	1.97	50.85
411	2020	1.71	2.53	3.00	3.92	4.31	6.39	6.35	7.16	3.55	3.53	2.78	2.8	48.19
75th Percentile:		2.34	2.80	4.23	5.03	5.14	6.82	8.16	7.60	6.02	4.74	3.44	2.73	55.08



Denton Co. MUD No. 4 (Tannery Dam)
Water Accounting Record
TWDB Evap Tab

EVAP DATA SOURCE: https://waterdatafortexas.org/lake-evaporation-rainfall

Texas Water Developm
Monthly lake surface evaporation in inches, a

#QUAD	YEAR	JAN	FEB	MAR	APR	MAY	JUN
411	1954	1.23	4.22	4.94	5.55	4.06	6.96
411	1955	1.74	1.84	4.02	4.47	5.18	6.97
411	1956	2.08	2.20	4.85	5.78	6.13	8.44
411	1957	1.85	1.79	2.73	2.78	3.20	6.03
411	1958	1.40	1.56	2.37	3.49	4.18	6.56
411	1959	1.31	2.06	4.78	4.66	4.97	5.64
411	1960	1.42	1.93	2.86	4.33	5.13	6.79
411	1961	1.34	1.79	3.92	4.92	4.72	6.09
411	1962	1.61	2.61	3.72	4.00	6.09	5.03
411	1963	1.62	2.02	5.03	4.84	4.82	6.69
411	1964	1.91	2.14	3.92	4.61	4.75	6.81
411	1965	2.14	1.74	2.96	5.38	4.20	5.58
411	1966	1.48	1.48	4.70	4.47	4.32	5.81
411	1967	2.78	3.03	5.65	3.87	4.80	6.46
411	1968	1.11	1.80	3.45	4.12	4.10	5.70
411	1969	2.02	2.18	3.18	4.28	3.92	7.22
411	1970	0.92	2.64	2.76	3.90	4.95	5.46
411	1971	2.23	2.67	5.16	5.79	5.15	7.55
411	1972	1.72	2.80	4.35	5.48	5.19	7.13
411	1973	1.25	1.90	4.23	3.48	5.14	5.23
411	1974	1.53	3.65	4.56	5.84	5.61	6.73
411	1975	2.23	2.03	3.16	4.54	3.72	6.12
411	1976	3.17	3.83	3.68	4.15	3.98	5.68
411	1977	1.43	2.80	4.67	4.98	5.15	7.09
411	1978	1.40	1.42	3.35	5.30	5.02	7.05
411	1979	2.29	1.43	3.69	4.01	4.98	6.80
411	1980	2.16	2.77	4.05	5.10	4.74	8.25
411	1981	2.06	2.00	3.97	4.83	4.37	6.17
411	1982	2.40	1.92	3.44	3.99	3.97	5.23
411	1983	1.95	1.71	3.46	4.13	4.33	5.27
411	1984	1.59	3.02	3.51	4.90	5.36	6.62
411	1985	1.50	1.25	3.62	4.67	4.86	6.82
411	1986	2.81	2.45	4.81	4.02	3.94	5.76
411	1987	2.35	2.25	2.94	5.37	4.19	5.86
411	1988	2.14	2.32	3.50	5.10	5.79	7.42
411	1989	2.24	2.36	3.82	5.23	5.07	5.13
411	1990	2.95	2.46	2.97	3.61	4.36	7.06
411	1991	1.94	2.34	4.36	3.88	4.59	6.36
411	1992	2.37	2.26	4.06	4.15	3.90	5.24
411	1993	1.68	1.89	3.23	4.33	4.45	5.76
411	1994	1.89	1.62	3.96	4.65	3.61	6.00
411	1995	1.94	2.45	2.50	4.07	3.91	5.62
411	1996	2.77	5.29	4.06	5.42	5.94	6.34
411	1997	2.44	2.11	3.70	4.33	4.63	5.62
411	1998	1.40	1.79	3.00	5.26	5.26	7.94

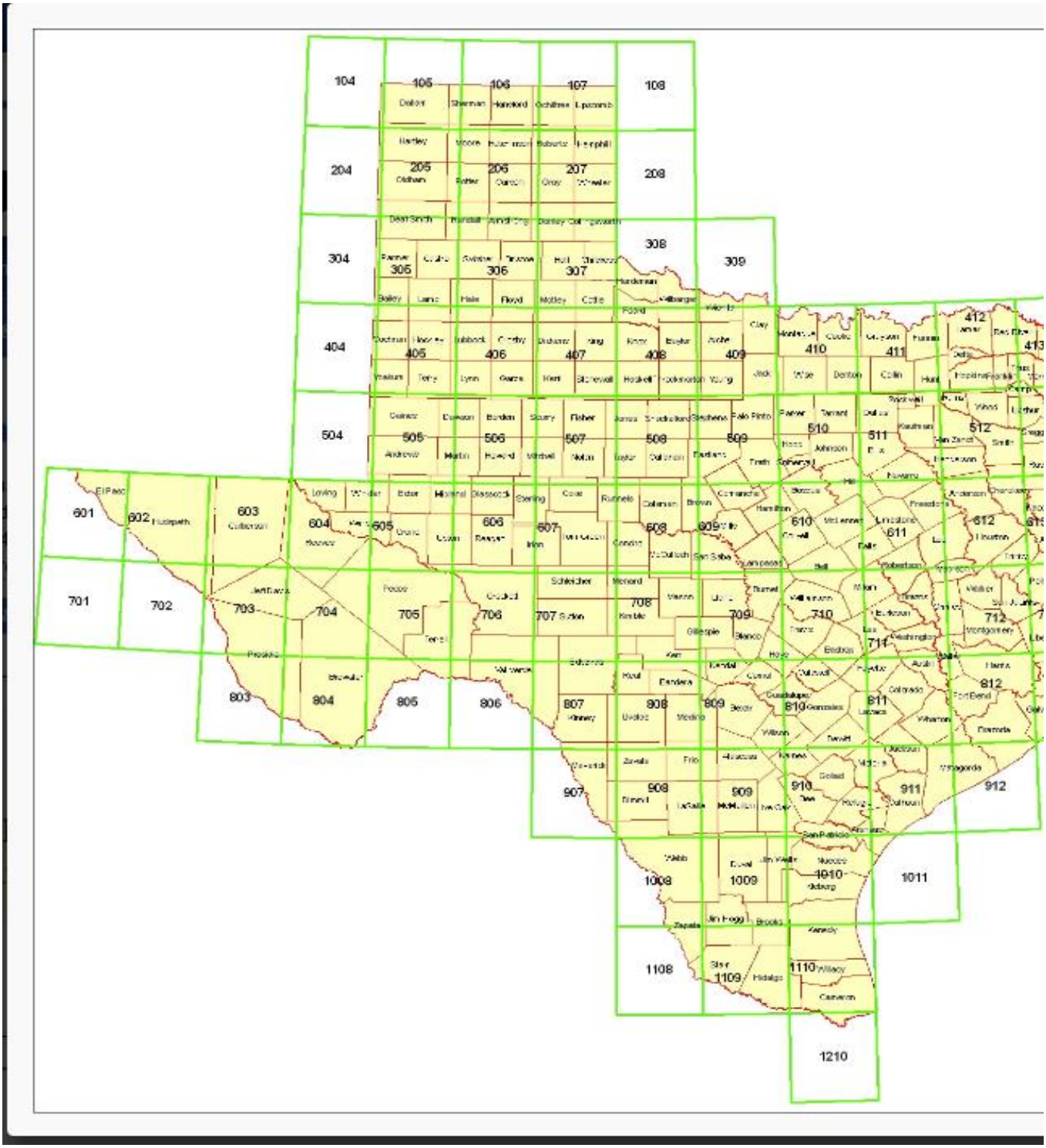
411	1999	1.91	2.31	3.81	4.57	4.69	6.37
411	2000	3.09	3.78	3.39	3.84	4.48	4.77
411	2001	2.14	1.92	2.76	3.75	4.40	5.89
411	2002	2.10	2.92	3.20	3.99	4.06	5.83
411	2003	2.03	2.14	3.41	5.08	4.30	5.20
411	2004	2.10	2.14	4.00	4.00	4.57	4.50
411	2005	2.11	2.30	3.90	4.49	4.28	6.42
411	2006	4.30	2.98	4.47	4.89	5.45	6.64
411	2007	2.78	2.69	3.93	3.69	3.83	5.05
411	2008	2.47	3.03	4.01	4.66	4.77	6.76
411	2009	2.31	3.34	4.40	4.72	3.62	6.18
411	2010	2.32	2.88	3.88	4.64	4.98	6.38
411	2011	1.84	2.41	4.23	6.12	5.09	7.10
411	2012	2.42	2.75	4.10	3.92	5.83	6.41
411	2013	2.52	3.00	4.35	4.66	4.72	7.36
411	2014	1.84	2.43	2.07	5.33	5.84	6.00
411	2015	1.64	2.82	2.92	6.32	5.58	8.95
411	2016	2.12	3.32	4.03	4.55	4.67	6.72
411	2017	2.75	3.75	4.32	4.55	4.76	5.39
411	2018	2.39	1.82	3.90	3.98	5.60	7.17
411	2019	2.12	2.05	3.32	4.64	4.43	5.52
411	2020	1.71	2.53	3.00	3.92	4.31	6.39
75th Percentile:		2.34	2.80	4.23	5.03	5.14	6.82

ent Board

nnual total evaporation in inches

JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
9.25	10.61	7.37	4.25	2.99	2.44	63.87
8.09	7.28	6.47	6.00	4.32	2.42	58.80
9.43	11.14	8.82	5.43	3.36	2.63	70.29
8.17	7.21	5.42	3.63	1.76	2.31	46.88
8.50	6.81	4.54	3.57	3.17	1.69	47.84
5.84	6.56	5.63	4.25	2.14	2.02	49.86
6.50	6.26	5.10	3.48	2.60	1.32	47.72
6.27	6.50	5.57	3.96	2.47	1.56	49.11
6.30	6.91	4.67	4.17	2.31	1.47	48.89
6.69	7.69	5.39	5.99	3.47	1.70	55.95
9.36	7.83	4.17	4.45	2.55	2.25	54.75
8.18	7.89	6.87	4.14	2.46	2.00	53.54
7.55	5.78	4.18	4.55	3.55	1.77	49.64
6.51	7.74	3.72	5.25	2.54	1.81	54.16
6.21	7.16	4.98	4.36	3.08	2.43	48.50
8.16	6.48	5.17	4.26	2.99	2.01	51.87
7.50	7.31	4.92	3.49	3.41	2.74	50.00
8.15	5.19	5.40	3.71	3.24	1.57	55.81
8.45	5.80	5.53	4.60	2.36	1.63	55.04
6.49	7.02	4.41	3.49	3.01	2.70	48.35
8.17	6.19	3.22	3.89	2.75	1.41	53.55
6.53	6.58	5.00	5.08	3.96	2.20	51.15
6.12	6.73	5.39	3.75	2.40	2.74	51.62
8.58	6.42	6.03	4.74	3.27	3.74	58.90
9.60	7.83	5.52	4.71	2.54	2.52	56.26
6.83	6.52	5.43	5.83	3.18	2.17	53.16
10.47	9.92	7.43	5.21	2.82	2.12	65.04
7.77	7.08	5.54	3.97	3.12	2.72	53.60
6.79	7.35	5.81	4.27	2.81	1.67	49.65
7.10	6.69	6.29	4.42	3.35	1.76	50.46
7.57	7.55	6.85	3.71	3.33	1.56	55.57
7.32	8.48	6.72	3.82	2.75	1.61	53.42
8.92	7.53	5.11	3.09	1.87	1.37	51.68
6.83	7.98	4.95	4.64	3.03	1.40	51.79
7.19	7.77	5.05	4.41	3.60	2.09	56.38
5.66	6.20	5.12	5.60	3.62	3.25	53.30
7.67	6.67	5.23	4.21	3.27	1.65	52.11
8.08	6.55	4.82	5.43	3.17	3.60	55.12
6.99	5.62	4.72	4.89	2.80	1.93	48.93
10.39	8.91	6.62	4.80	2.76	2.33	57.15
6.70	6.23	4.65	3.81	2.56	1.40	47.26
6.57	6.92	4.72	5.52	3.60	1.86	49.68
7.11	4.81	3.89	5.27	3.62	3.13	57.65
6.76	6.51	6.00	4.13	2.55	2.84	51.62
8.54	7.40	5.78	4.01	2.16	1.37	53.91

7.62	7.17	5.45	4.46	2.96	2.11	53.43
6.61	7.65	6.04	4.24	2.39	3.35	53.54
7.74	6.70	3.85	4.01	2.85	2.13	48.14
5.56	6.33	5.11	3.16	2.48	2.53	47.27
7.06	6.43	4.23	3.95	3.63	2.97	50.43
6.06	5.87	5.22	3.60	2.24	2.70	47.00
5.88	6.46	6.31	4.58	4.06	3.15	53.94
8.49	8.34	5.58	4.71	3.17	2.79	61.81
4.74	5.99	4.42	4.06	3.96	2.26	47.40
7.85	5.84	4.49	4.28	3.86	2.81	54.83
6.75	6.55	4.19	3.57	3.07	1.83	50.53
6.45	7.48	4.94	3.62	2.93	3.30	53.80
7.86	8.71	6.70	4.73	4.08	3.75	62.62
8.09	7.69	6.20	4.09	3.77	2.07	57.58
6.61	7.23	6.37	2.74	2.86	2.07	54.80
6.54	7.23	5.89	4.84	3.51	1.97	53.72
7.57	8.24	6.41	5.40	3.48	3.66	63.15
8.50	4.63	4.00	4.77	3.47	1.93	52.88
7.19	5.24	5.34	4.27	2.88	2.79	53.28
7.92	6.60	3.33	2.88	3.33	2.56	51.94
7.09	6.97	6.21	4.23	2.15	1.97	50.85
6.35	7.16	3.55	3.53	2.78	2.8	48.19
8.16	7.60	6.02	4.74	3.44	2.73	55.08


104
105
106
107
108
204
205
206
207
208
304
305
306
307
308
309
404
405
406
407
408
409
410
411
412
504
505
506
507
508
509
510
511
512
601
602
603
604
605
606
607
608
609
610
611
612
701
702
703
704
705
706
707
708
709
710
711
712
803
804
805
806
807
808
809
810
811
812
907
908
909
910
911
912
1008
1009
1010
1011
1108
1109
1110
1210


414
514
614
714
814
513
713
813