MUNICIPAL SETTING DESIGNATION APPLICATION

Rebar Facility
4700 Singleton Boulevard
Dallas, Texas

Applicant: GoodRE Singleton Investments LLC

Prepared by:

MODERN GEOSCIENCES
5100 Thompson Terrace
Colleyville, Texas 76034
moderngeosciences.com

September 2025

City of Dallas

Office of Environmental Quality & Sustainability
Management Services

Municipal Setting Designation Application Form

October 2023

Publication No. 23-24: 17

Municipal Setting Designation
Application Form

Instructions

Application Form: Submit this completed application form, along with 10 copies of the application and all supporting documentation, to the City of Dallas, Office of Environmental Quality & Sustainability (address shown at the bottom of this page) when applying for a Municipal Setting Designation (MSD) Certificate. The MSD application process is governed by the City of Dallas Ordinance number 26001; Section 51A-6.108 of the Dallas Development Code. Failure to use this application form will result in denial of the application.

In general, the application form is self-explanatory. Indicate by checking "Yes", "No", or "N/A" in response to the stated question. Complete the form and submit a copy of the form along with the supporting information. If any of the responses on the form require more space than is provided in the form, add the additional information to the end of the form and note that additional information is included in the answer space.

This application must be clear, complete, concise, correct, contain only relevant information, and be organized to facilitate analysis. Supporting documentation, if necessary, should be submitted as a separate appendix to the application.

Maps: All maps must be accurate and drawn to scale. The supporting information can be consolidated onto fewer maps than are listed in the checklist, provided the information is legible.

A professional surveyor registered with the Texas Board of Professional Surveying must certify that all property descriptions or maps with metes and bounds descriptions are accurate.

Legal Description of the MSD: Metes and bounds descriptions **MUST INCLUDE THE ADJACENT PUBLIC RIGHT(S)-OF-WAY AND** must be certified by a licensed professional surveyor registered by the Texas Board of Professional Surveying attesting to the accuracy of the descriptions. One legal description which consists of: (1) the designated property and (2) the adjacent public right(s)-of-way in a contiguous form and fashion is also acceptable.

Submittal: Submit the attached application form and all supporting information, along with a filing fee of $3,903 (check payable to City of Dallas) to:

City of Dallas
Office of Environmental Quality & Sustainability
1500 Marilla, 7AN
Dallas, Texas 75201

Please note that the applicant must also pay the estimated cost of mailing notices and advertising for the public meeting. Furthermore, the applicant must pay $8,192 processing fee prior to the placement of the application on the City Council agenda. No refunds of these fees will be made. **If there are any questions, please contact Lori Frauli Trulson of the Office of Environmental Quality & Sustainability at 214/671-8967.**

City of Dallas

Municipal Setting Designation Application Form

Please use the checklist below to indicate whether the items are included in the application by checking the "yes" or "no" or "N/A" column. If an item is checked "no" an explanation must be provided as to why the item is not included. The application must include all information on the following checklist **IN THIS ORDER**. Please note that if an item is checked "no", the application could be rejected.

ITEM	YES	NO	N/A	*PAGE #
1. Executive Summary	X			Tab 1
2. Name, address, telephone number, and email of all applicants, all property owners within the designated property, and any representatives of the applicants or property owners.	X			Tab 2
3. A legal description of the boundaries of the designated property **AND THE METES AND THE BOUNDS OF THE ADJACENT PUBLIC RIGHT(S)-OF-WAY,** along with a copy of the deed for the designated property. One legal description which consists of: (1) the designated property and (2) the adjacent public right(s)-of-way in a contiguous form and fashion is also acceptable.	X			Tab 3
4. A site map showing: A. the location of the designated property **AND ADJACENT PUBLIC RIGHT(S)-OF-WAY** B. the topography of the designated property as indicated on publicly available sources C. the detected are of groundwater contamination; D. the location of all soil sampling locations and all groundwater monitoring wells; E. groundwater gradients, to the extent known, and direction of groundwater flow; and F. the ingestion protective concentration level exceedance zone for each contaminant of concern, to the extent known;	X			Tab 4
5. A description of the current use, and, to the extent known, the anticipated uses, of the designated property and properties within 500 feet of the designated property.	X			Tab 5
6. For each contaminant of concern within the ingestion protective concentration level exceedance zone, to the extent known, provide the following: A. Description of the ingestion protective concentration level exceedance zone and the non-ingestion protective concentration level exceedance zone, including a specification of the horizontal area and the minimum and maximum depth below ground surface. B. The level of contamination, the ingestion protective concentration level, and the non-ingestion protective concentration level, all expressed as mg/L units. C. Its basic geochemical properties (for example, whether the contaminant of concern migrates with groundwater, floats, or is soluble in water).	X			Tab 6

* This is the actual page number of the application report where the information is found.

ITEM	YES	NO	N/A	*PAGE #
7. For each contaminant of concern within the designated groundwater, to the extent known, provide the following: A. Description of the ingestion protective concentration level exceedance zone and the non-ingestion protective concentration level exceedance zone, including a specification of the horizontal area and the minimum and maximum depth below ground surface. B. The level of contamination, the ingestion protective concentration level, and the non-ingestion protective concentration level, all expressed as mg/L units. C. Its basic geochemical properties (for example, whether the contaminant of concern migrates with groundwater, floats, or is soluble in water).	X			Tab 7
8. A table displaying the following information for each contaminant of concern, to the extent known: A. The concentration level for soil and groundwater, the ingestion protective concentration level, and the non-ingestion protective concentration level, all expressed as mg/L units B. The critical protective concentration level <u>without</u> the municipal setting designation, highlighting any exceedances. C. The critical protective concentration level <u>with</u> the municipal setting designation, highlighting any exceedances.	X			Tab 8
9. A statement as to whether the plume of contamination stable, expanding, or contracting with the basis for that statement. If this information is not known, a statement of why the information is not known.	X			Tab 9
10. A statement as to whether contamination on and off the designated property without a municipal setting designation <u>exceeds</u> a residential assessment level as defined in the Texas Risk Reduction Program, if known, and the basis for that statement.	X			Tab 10
11. A statement as to whether contamination on and off the designated property with a municipal setting designation <u>will exceed</u> a residential assessment level as defined in the Texas Risk Reduction Program, if known, and the basis for that statement.	X			Tab 11
12. Identification of the points of origin of the contamination and the persons responsible for the contamination, to the extent known.	X			Tab 12
13. A description of any environmental regulatory actions that have been taken within the past five years in connection with the designated property, to the extent known.	X			Tab 13
14. A listing of all existing state of U.S. Environmental Protection Agency registrations, permits, and identification numbers that apply to the designated property.	X			Tab 14
15. A statement as to whether the designated property has been submitted to the Texas Voluntary Cleanup Program (Section 361.601 of the Texas Health and Safety Code) or similar state or federal program, and a description of the designated property's status in the program.	X			Tab 15
16. A summary of any environmental site assessment reports filed with the TCEQ regarding any site investigations or response actions that are planned, ongoing, or completed related to the designated property.	X			Tab 16

ITEM	YES	NO	N/A	*PAGE #
17. A statement as to whether any public drinking water supply system exists that satisfies the requirements of Chapter 341 of the Texas Health and Safety Code and that supplies or is capable of supplying drinking water to the designated property and property within one-half mile of the designated property and the identity of each.	X			Tab 17
18. The name and address of each owner of a state-registered private water well within five miles of the designated property, along with: A. a map showing the location of each well and, to the extent known, a notation of whether each well is used for potable water; and B. a statement as to whether the applicant has provided notice to each owner in compliance with Section 361.805 of the Texas Health and Safety Code.	X			Tab 18
19. The name and address of each retail public utility, as defined in Section 13.002 of the Texas Water Code, that own or operates a groundwater supply well within five miles of the designated property, along with a statement as to whether the applicant has provided notice as required by Section 361.805 of the Texas Health and Safety Code.	X			Tab 19
20. A listing of each municipality, other than the city of Dallas, with a boundary within one-half mile of the designated property, and a statement as to whether the applicant has provided notice as required by Section 361.805 of the Texas Health and Safety Code.	X			Tab 20
21. A listing of each municipality, other than the City of Dallas, that owns or operates a groundwater supply well within five miles of the designated property; and a statement as to whether the applicant has provided notice as required by Section 361.805 of the Texas Health and Safety Code.	X			Tab 21
22. The following statement signed and sealed by a licensed professional engineer or licensed professional geoscientist authorized to practice in the state of Texas with expertise in environmental remediation: To the best of my knowledge and believe, based upon a review of all public and private records and other information sources available to me in the exercise of due diligence, the opinions stated and conclusions made in this application are supported by such information, and the technical and scientific information submitted with the application is true, accurate, and complete. Based on such review, the contaminants of concern from the sources on the designated property or migrating from or through the designated property more likely than not (do exceed) *or* (do not exceed) a non-ingestion protective concentration level on property beyond the boundaries of the designated property.	X			Tab 22
23. If the licensed professional engineer or licensed professional geoscientist determines that contaminants of concern from sources on the designated property or migrating from or through the designated property more likely than not do exceed a non-ingestion protective concentration level on property beyond the boundaries of the designated property, then the applicant must: A. Specify the name and address of the owner of each property. B. Send a copy of the application to the owner of the property with the notice of the public meeting. C. Provide documentation that the designated property has been included in a state or federal program that requires that the entire non-ingestion protective concentration level exceedance zone be addressed to the satisfaction of the agency administering the program, along with documentation of the estimated time period in which it is to be addressed. An example of such a program is the Texas Voluntary Cleanup Program (Section 361.601 of the Texas Health and Safety Code). D. Provide documentation upon completion of the state or federal program showing that the non-ingestion protective concentration level exceedances have been addressed to the satisfaction of the agency administering the program.			X	Tab 23

ITEM	YES	NO	N/A	*PAGE #
24. The following statement certified by the applicant and any authorized representatives of the applicants listed in the application: I certify under penalty of law that this application and all attachments were prepared under my direction or supervision in a manner designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the persons responsible for gathering and evaluating the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	X			Tab 24
25. A copy of the TCEQ application, if it has been filed, excluding attachments.			X	Tab 25
26. The signature of the applicant and proof that the applicant has the legal authority to restrict the use of the groundwater on the designated property.	X			Tab 26
27. The initial filing fee of $4,000 payable to "City of Dallas".	X			Tab 27
28. Any additional information.			X	Tab 28

GoodRE Singleton Investments LLC
Applicant Company Name

Keeson Martin - Agent
Printed Name and Title

Signature

6-28-2024
Date

Section 1 – Executive Summary

The Designated Property consists of one (1) parcel of land located at 4700 Singleton Boulevard ("Site") and associated City of Dallas rights-of-way, generally at the southwest corner (SWC) of Singleton Boulevard and Vinson Street. The Site consists of approximately 4.7326-acres owned by GoodRE Singleton Investments LLC. GoodRE Singleton Investments is also the Applicant. The full proposed Municipal Setting Designation (MSD) acreage, including City of Dallas rights-of-way, is approximately 6.716 acres.

The Site is currently improved with a 5,948 square-foot two-story office building and an adjoining 39,501 square-foot warehouse. According to due diligence efforts, the Site consisted of vacant land from at least the 1940s through 2000, when the current on-site structures were constructed. The Site appeared to be periodically used to stage soil and materials during construction activities on adjacent properties in the 1970s and 1980s. Since 2000, the Site has been utilized by a rebar fabrication and distribution business. It is expected that this business will continue to operate at the Site for the foreseeable future.

The surrounding area consists of primarily industrial businesses to the east and west of the Site with retail facilities and a residential neighborhood located to the north. The Site is bound to the south by vacant land followed by Master Builders, Remodelers (2607 Vinson Street). The Site is bound to the west by a former rail spur followed by CMC Rebar (4846 Singlton Blvd) and Riser Street. The Site is bound to the east by Vinson Street followed by Kloeckner Metals (4606 Singlton Blvd). The future use for the surrounding area is not anticipated to change. Figure 1 in Section 4 provides a depiction of the proposed MSD boundary and surrounding properties within 500 feet.

The investigation activities performed at the Site identified concentrations of 1,1-dichloroethene (up to 0.0113 mg/L), cis-1,2-dichloroethene (up to 0.621 mg/L), tetrachloroethene (up to 0.0226 mg/L), trichloroethene (up to 1.34 mg/L), vinyl chloride (up to 0.00786 mg/L), and 1,4-dioxane (up to 0.0637 mg/L) in groundwater above their respective ingestion-based Texas Risk Reduction Program (TRRP) Residential Assessment Levels (RALs). The reported concentrations do not exceed the non-ingestion-based (MSD-based) RALs. The chlorinated solvent concentrations appear to be from an off-site source and no soil Protective Concentration Level Exceedance (PCLE) Zones were identified at the Site.

The affected groundwater is encountered within a perched groundwater-bearing unit (GWBU) of Quaternary Alluvium Deposits (Qal). The Quaternary Alluvium Deposits consist of flood-plain deposits and indistinct low terrace deposits of gravel, sand, silt, silty clay, and organic matter. Groundwater depth at the Site ranges from approximately 11 to 18 feet below grade. The Alluvium deposits are underlain by shale of the Eagle Ford Group at around 25 to 30 feet below grade. The Eagle Ford Group extends 200 to 300 feet below the Site and will restrict vertical migration of the chlorinated solvent concentrations.

Based on the measurements collected by Vertex, groundwater flow is generally towards the northeast at an average gradient of 0.00038 ft/ft. It should be noted that Vertex appeared to collect water level measurements shortly after well installation and prior to any well development or purging. While the limited data set offered by Vertex indicates a northeasterly groundwater flow, regulatory files associated

with the suspected off-site sources indicates groundwater flow variation to the east and north (see Figure 6 in Section 4).

A total of 179 state-registered water wells were noted within five (5) miles of the MSD Boundary. There are no state-registered water wells recorded within one-half mile of the Site.

Vapor Intrusion Evaluation

While Texas does not currently have risk-based criteria for evaluating vapor intrusion, a Soil Vapor Investigation was also performed by Vertex in June 2023 concurrent with the Phase II activities. One (1) soil-vapor point (SV-01) was installed within the northern portion of the on-site building. A soil gas sample was collected in a 1-Liter Summa cannister and analyzed for VOCs using EPA Method TO-15. No VOC concentrations were detected above their respective EPA Vapor Intrusion Screening Levels (VISLs) except for acrolein. Acrolein is not a COC associated with the Site and is a common laboratory artifact found within Summa cannisters. Vertex concluded in the report "there were no detections in soil-vapor that are considered indicative of a significant potential sub-slab source of VOCs within the on-site office area." A copy of the report was provided in the VCP Application for the Site previously submitted to the TCEQ.

Please see Section 16 for additional details of the screening.

The Site was formally accepted into the VCP on October 10, 2023, and has been assigned VCP No. 3305. An Affected Property Assessment Report (APAR) was submitted to the TCEQ in February 2024 and was subsequently approved by the agency in a letter dated June 25, 2024. The Applicant does not currently have a redevelopment plan outside continued commercial use.

Section 2 – Applicant Information

Name, address, telephone number, and email of all applicants, all property owners within the designated property, and any representatives of the applicants or property owners.

Applicant

GoodRE Singleton Investments LLC
Keeson Martin – Applicant/Owner Representative
15640 Quorum Drive
Addison, Texas 75001
Phone: (214) 363-1998
Email: km@fourcorners-co.com

Property Owner

GoodRE Singleton Investments LLC
Keeson Martin – Applicant/Owner Representative
15640 Quorum Drive
Addison, Texas 75001
Phone: (214) 363-1998
Email: km@fourcorners-co.com

Property Addresses

Rebar Facility
4700 Singleton Blvd
Dallas, Texas 75212

Applicant Representatives

Damon L. Johnson, PG
Modern Geosciences, LLC
5100 Thompson Terrace
Colleyville, Texas 76034
Phone: (682) 223-1322 ext. 205
Email: djohnson@moderngeosciences.com

Section 3 – Legal Description

A legal description of the boundaries of the designated property AND THE METES AND THE BOUNDS OF THE ADJACENT PUBLIC RIGHT(S)-OF-WAY, along with a copy of the deed for the designated property. One legal description which consists of: the designated property and two (2) adjacent public rights-of-way in a contiguous form and fashion is also acceptable.

This section contains legal descriptions, survey and deed information for the designated property. An MSD survey is included for the full proposed MSD boundary as well.

EXHIBIT "A"
LEGAL DESCRIPTION
MUNICIPAL SETTING DESIGNATION AREA

BEING 6.725 acres of land located in the HORACE BURNHAM SURVEY, Abstract No. 106, more specifically within the City of Dallas Block 7198, Dallas, Dallas County, Texas, and being all of the tract of land conveyed to Arrowhead Building Materials, L.P., by the Special Warranty deed recorded in Volume 99021, Page 759, of the Deed Records of Dallas County, Texas, and portions of Singleton Boulevard (a 100 foot wide public right-of-way) and Vinson Street (an 80 foot wide public right-of-way). Said 6.725 acres of land being more particularly described by metes and bounds as follows:

BEGINNING at a point at the Southwest corner of said Arrowhead Building Materials, L.P. Tract, located within City of Dallas Block 7198;

THENCE N 15° 05' 00" W along the West boundary line of said Arrowhead Building Materials, L.P. Tract at 607.16 feet passing the Northwest corner of said Arrowhead Building Materials, L.P. Tract and the South right-of-way line of aforesaid Singleton Boulevard, and in all 710.73 feet, to a point in the North right-of-way line of said Singleton Boulevard, being the South boundary line of Block 12/7158, Weisenberger Gardens Replat;

THENCE EAST 466.06 feet, along the North right-of-way line of said Singleton Boulevard and the South boundary line of said Block 12/7158, to a point;

THENCE S 15° 05' 00" E crossing said Singleton Boulevard at 103.57 feet passing the South right-of-way line of said Singleton Boulevard, and in all 589.45 feet, along the East right-of-way line of aforesaid Vinson Street, to a point;

THENCE S 74° 55' 00" W crossing said Vinson Street at 80.00 feet passing the West right-of-way line of said Vinson Street and the Southeast corner of said Arrowhead Building Materials, L.P. Tract, and in all 450.00 feet, continuing along the South boundary line of said Arrowhead Building Materials, L.P. Tract, to the POINT OF BEGINNING containing 6.725 acres of land.

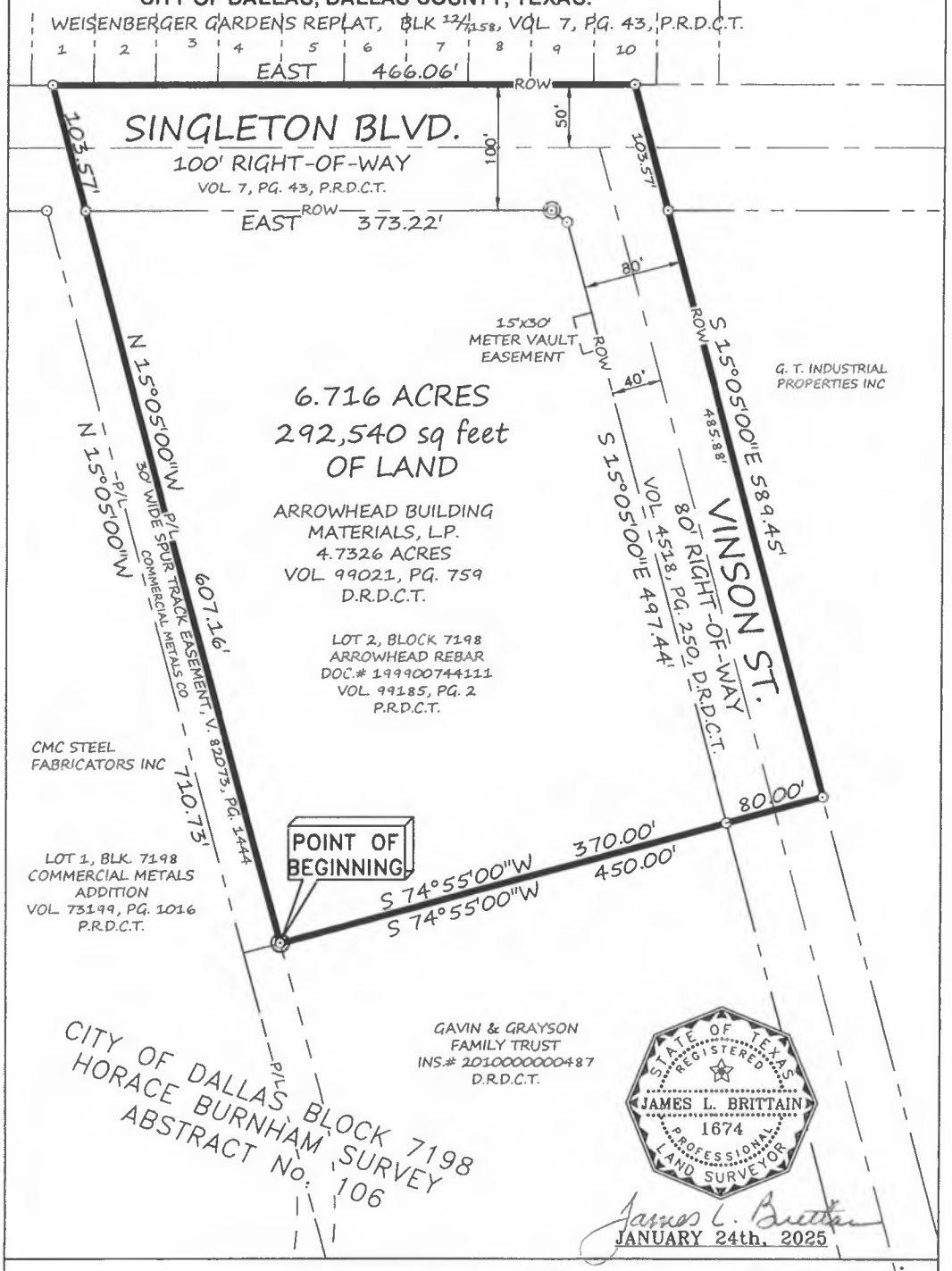
This document was prepared under 22 TAC 663.21, does not reflect the results of an on the ground survey, and is not to be used to convey or establish interests in real property except those rights and interest implied or established by the creation or reconfiguration of the boundary of the political subdivision for which it was prepared.

STATE OF TEXAS
REGISTERED
JAMES L. BRITTAIN
1674
PROFESSIONAL
LAND SURVEYOR

James L. Brittain

FIELD NOTES EXHIBIT OF A 6.716 ACRE (292,540 SQUARE FEET)
MUNICIPAL SETTING DESIGNATION SURVEY
SITUATED IN THE CITY OF DALLAS, BLOCK NUMBER 7198
CITY OF DALLAS, DALLAS COUNTY, TEXAS.

EXHIBIT "B"
PAGE 1 OF 2



4700 SINGLETON BOULEVARD, DALLAS, TX
EXHIBIT MAP OF:

BRITTAIN & CRAWFORD
LAND SURVEYING & TOPOGRAPHIC MAPPING
FIRM CERTIFICATION# 1019000
TEL (817) 926-0211 – FAX (817) 926-9347
P.O. BOX 11374 • 3408 SOUTH FREEWAY
FORT WORTH, TEXAS 76110
EMAIL: admin@brittain-crawford.com
WEBSITE: www.brittain-crawford.com

MUNICIPAL SETTING DESIGNATION AREA
6.716 ACRES OF LAND
LOCATED IN THE HORACE BURNHAM SURVEY, ABSTRACT No. 106, CITY OF DALLAS, DALLAS COUNTY, TEXAS
MAP PREPARED: MARCH 26, 2024

NORTH
200'
100'
SCALE 1"=100'

(K.G.) G:\KRYSTIAN\PROJECTS\MODERN GEO\DAL-4700 SINGLETON\DAL-4700 SINGLETON.dwg

FIELD NOTES APPROVED:
3/12/2025

UPON RECORDING RETURN TO:

Wick Phillips Gould & Martin LLP
3131 McKinney Avenue, Suite 500
Dallas, Texas 75204
Attention: Rob Wills

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

SPECIAL WARRANTY DEED WITH VENDOR'S LIEN

THE STATE OF TEXAS §
§ KNOW ALL PERSONS BY THESE PRESENTS:
COUNTY OF DALLAS §

THAT **JAYLOR BUILDING MATERIALS, L.P.,** a Texas limited partnership (**"Grantor"**), for and in consideration of the sum of TEN AND NO/100 DOLLARS ($10.00) and other good and valuable consideration paid in cash to Grantor by the Grantee herein named, has GRANTED, BARGAINED, SOLD and CONVEYED, and by these presents does GRANT, BARGAIN, SELL and CONVEY unto **GOODRE SINGLETON INVESTMENTS LLC**, a Texas limited liability company (**"Grantee"**), whose mailing address is 15640 Quorum Drive, Addison, Texas 75001, that certain real property situated in Dallas County, Texas, as more particularly described on Exhibit A attached hereto and made a part hereof for all purposes (the **"Land"**), together with all right, title and interest of Grantor, if any, in (i) all improvements and fixtures on the Land, (ii) all adjacent and/or contiguous streets, roads, avenues, alleys, and rights of way, (iii) all easements, rights of ingress and egress, rights of way, and covenants appurtenant to the Land, and (iv) all permits, approvals, licenses, rights, and authorizations and exemptions of any kind from governmental authorities related to the ownership, maintenance, use, development or operation of the Land or any improvements thereon (the Land together with such rights, titles, being collectively called the **"Property"**),

This Special Warranty Deed with Vendor's Lien (this **"Deed"**) is expressly made subject to taxes and assessments for the current year and subsequent years, not yet due and payable, and all matters set forth on Exhibit B attached hereto (collectively, the **"Permitted Exceptions"**).

TO HAVE AND TO HOLD the Property subject to the Permitted Exceptions and all improvements located thereon, together with all and singular the rights and appurtenances thereto and in any wise belonging unto the said Grantee, its successors and assigns, forever; and Grantor does hereby bind itself, its successors and assigns, to Warrant and Forever Defend all and singular the Property subject to the Permitted Exceptions unto the said Grantee, its successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof by, through or under Grantor, but not otherwise.

In connection herewith, GRAND BANK (**"Lender"**), has made a loan (the **"Loan"**) to Grantee to facilitate Grantee's purchase of the Property from Grantor. In consideration of Lender's advance of funds pursuant to the Loan, Grantee reserves for the benefit of Lender a vendor's lien herein retained and being further secured by a Deed of Trust, Security Agreement, Assignment of Rents, and Fixture Financing Statement of even date herewith and superior title against the Property as security for repayment by Grantee

of the Loan, until such Loan is paid in full according to its terms, at which time this Deed will become absolute and the vendor's lien shall be released as well as superior title retained herein.

[Remainder of Page Intentionally Left Blank; Signature Page Follows]

IN WITNESS WHEREOF, Grantor has executed this Deed to be effective as of the 22 day of September, 2023.

GRANTOR:

JAYLOR BUILDING MATERIALS, L.P.,
a Texas limited partnership

By: Jaylord Management Corp.,
a Texas corporation,
its general partner

By: Jayson Turner Pres
Name: Jayson Turner
Title: President

STATE OF TEXAS §
§
COUNTY OF Dallas §

This instrument was acknowledged before me on September 22 2023, by Jayson Turner, President of Jaylord Management Corp., the general partner of Jaylor Building Materials, L.P., a Texas limited partnership, on behalf of said entity.

MICHAEL A. GALASON
My Notary ID # 133334462
Expires September 16, 2025

Notary Public, State of Texas
My Commission expires: 9/16/2025

Exhibit A
Legal Description of Property

Lot 2, Block 7198, Arrowhead Rebar Addition, an addition to the City of Dallas, Dallas County, Texas according to the plat thereof recorded in Volume 99185, Page 2, Map Records, Dallas County, Texas.

Exhibit B
Permitted Exceptions

1. The following as shown on plat recorded in Volume 99185, Page 2, Map Records, Dallas County, Texas, as shown on Survey dated April 25, 2023 and performed by MICHAEL W. SOLITRO, RPLS#6505 ("Survey"):

   30 foot by 15 foot meter vault easement.

2. Matters contained in that certain document

   Entitled: Agreement Dated: January 29, 1999
   Executed by: CMC Steel Fabricators, Inc. d/b/a CoMet Steel, Inc. and Arrowhead Building Materials, L.P.
   Recording Date: February 2, 1999
   Recording No: Volume 99021, Page 850, Real Property Records, Dallas County, Texas, as noted and shown on Survey as to area.

3. An unrecorded lease with certain terms, covenants, conditions and provisions set forth therein as disclosed by the document

   Entitled: Memorandum of Lease, Option to Purchase and Right of First Refusal
   Lessor: Jaylor Building Materials, L.P.
   Lessee: Nufab Arrowhead LLC
   Recording Date: February 17, 2010
   Recording No: under Clerk's File No. 201000037986, Real Property Records, Dallas County, Texas, as noted on Survey.

   As affected by Subordination, Non-Disturbance and Attornment Agreement dated February 16, 2010, filed February 17, 2010, recorded under Clerk's File No. 201000037988, Real Property Records, Dallas County, Texas.

4. Easement(s) and rights incidental thereto, as granted in a document:

   Granted to: County of Dallas
   Purpose: As provided in said document Recording Date: April 12, 2017
   Recording No: under Clerk's File No. 201700102442, Real Property Records, Dallas County, Texas, as shown on Survey.

Dallas County
John F. Warren
Dallas County Clerk

Instrument Number: 202300196442

eRecording - Real Property

Recorded On: September 25, 2023 03:29 PM

Number of Pages: 6

" Examined and Charged as Follows: "

Total Recording: $42.00

********** **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:	202300196442
Receipt Number:	20230925000857
Recorded Date/Time:	September 25, 2023 03:29 PM
User:	Lynn G
Station:	Cc147

Record and Return To:

CSC Global

STATE OF TEXAS
COUNTY OF DALLAS

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

John F. Warren
Dallas County Clerk
Dallas County, TX

Section 4 – Figures

A site map showing:

A. *the location of the designated property and adjacent public right(s)-of-way*
B. *the topography of the designated property as indicated on publicly available sources*
C. *the detected area of groundwater contamination;*
D. *the location of all soil sampling locations and all groundwater monitoring wells;*
E. *groundwater gradients, to the extent known, and direction of groundwater flow; and the ingestion protective concentration level exceedance zone for each contaminant of concern, to the extent known.*

Based on the measurements collected by Vertex, groundwater flow is generally towards the northeast. It should be noted that Vertex appeared to collect water level measurements shortly after well installation and prior to any well development or purging. While the limited data set offered by Vertex indicates a northeasterly groundwater flow, regulatory files associated with the suspected off-site sources indicates groundwater flow variation to the east and north. Prior assessment of the Site confirmed chlorinated solvents impact that appears to originate from historic off-site activities. Groundwater PCLE Zone maps are included on Figures 5 and 6. A groundwater gradient map is included as Figure 6.

Figures:

Figure 1: Proposed MSD Boundary Map

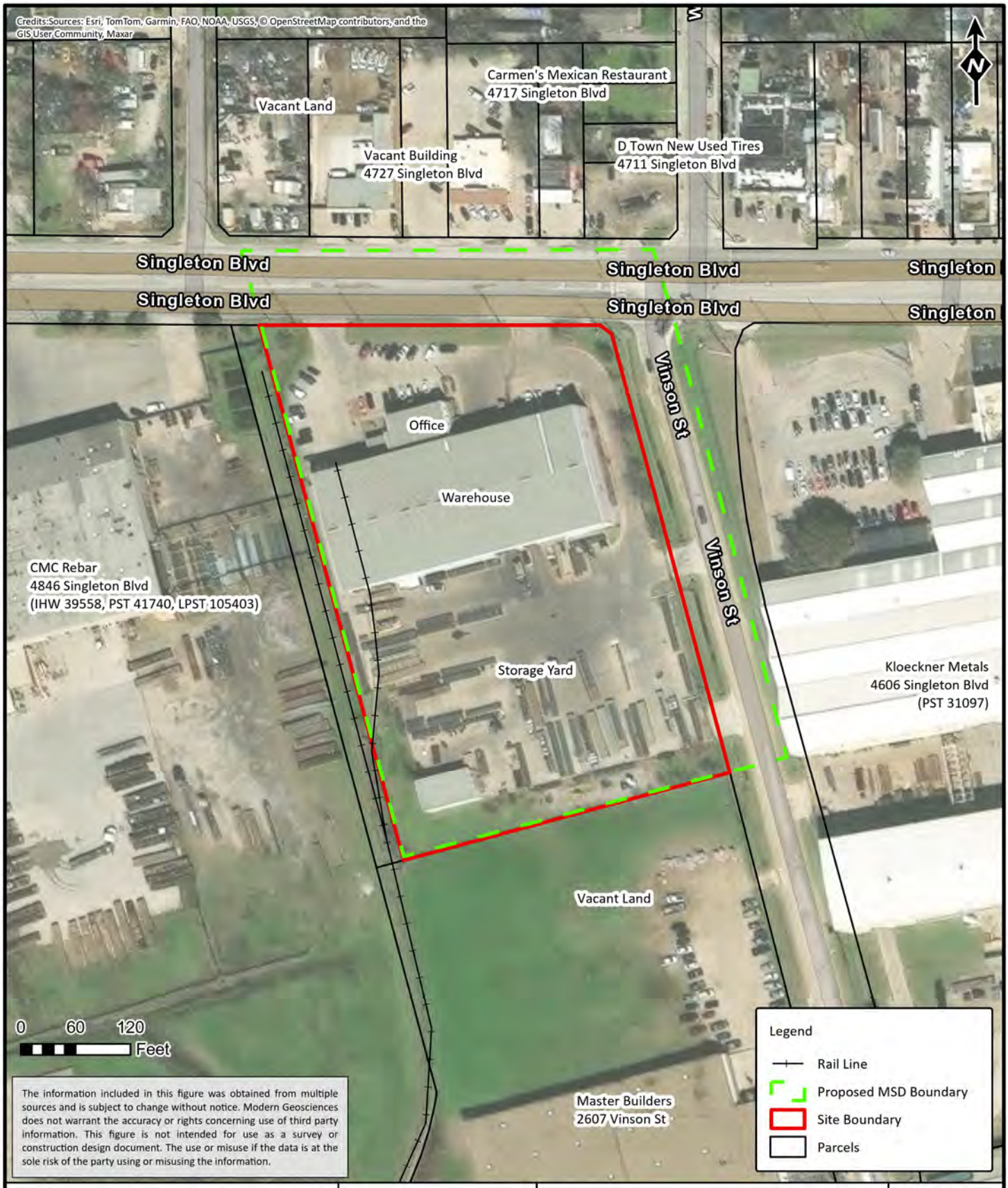
Figure 2: Topographic Map

Figure 3: Soil Boring and Monitoring Well Location Map

Figure 4: Groundwater PCLE Zone Map – January 2010

Figure 5: Groundwater PCLE Zone Map – June 2023

Figure 6: Groundwater Gradient Map



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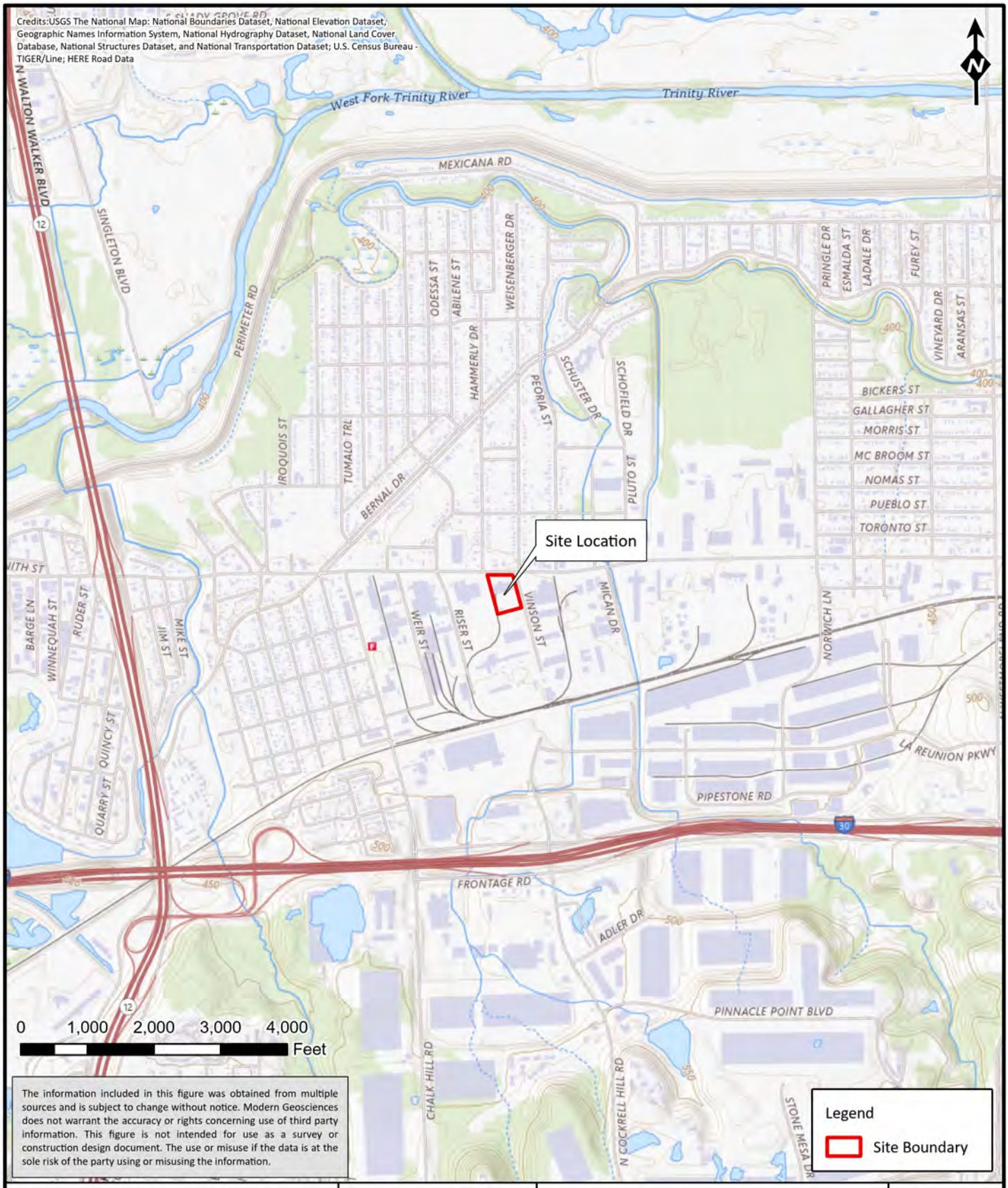
Project No.:	23249
Drawn:	09.03.25
Drawn By:	CS
Checked By:	DJ
File Name:	SingletonRebar 1-MSD SiteBound

PROPOSED MSD BOUNDARY MAP

Rebar Facility
4700 Singleton Boulevard
Dallas, Texas

FIGURE

1



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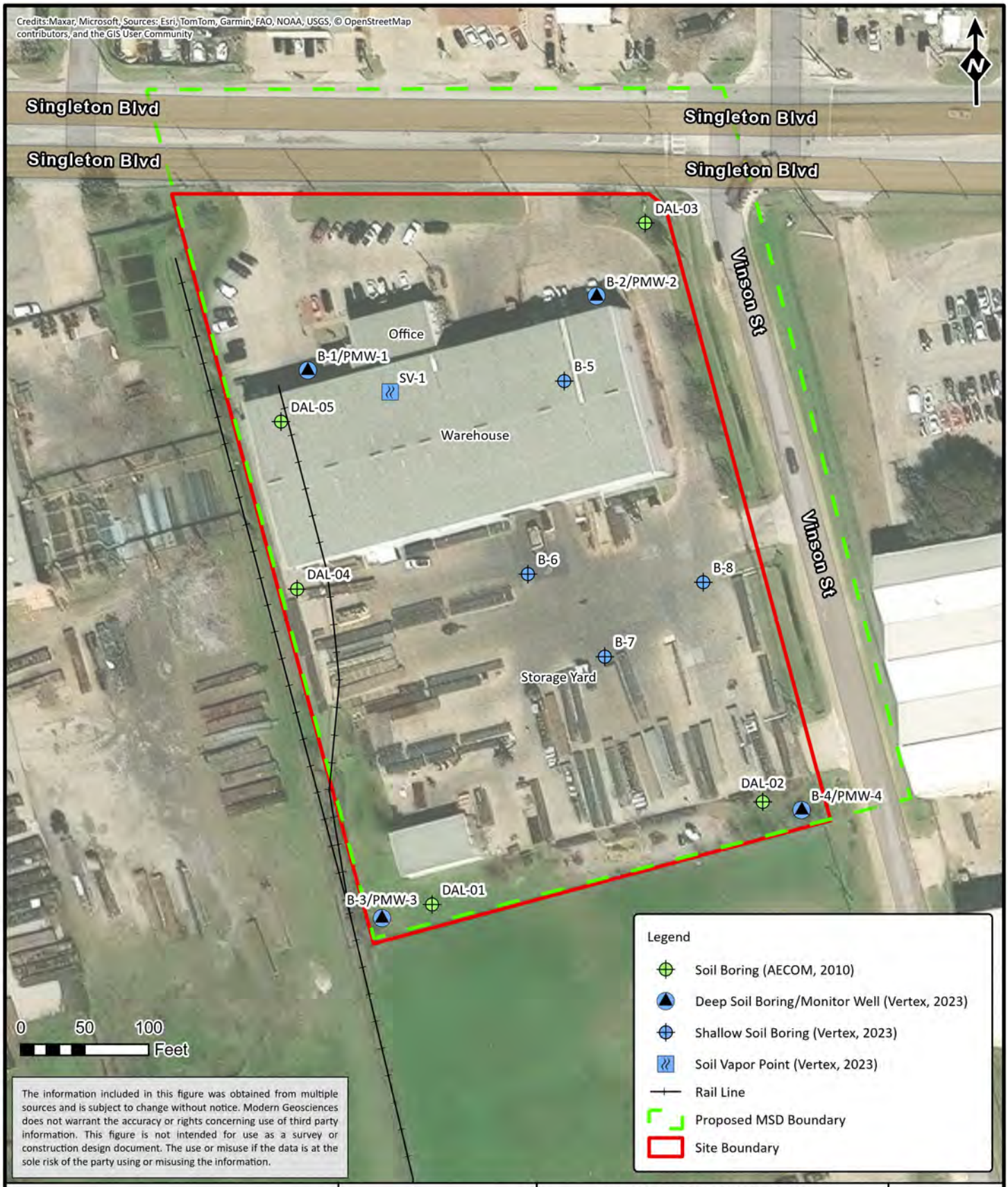
Project No.:	23249
Drawn:	09.03.25
Drawn By:	CS
Checked By:	DJ
File Name:	SingletonRebar 2B-Topo Map

TOPOGRAPHIC MAP

Rebar Facility
4700 Singleton Boulevard
Dallas, Texas

FIGURE

2



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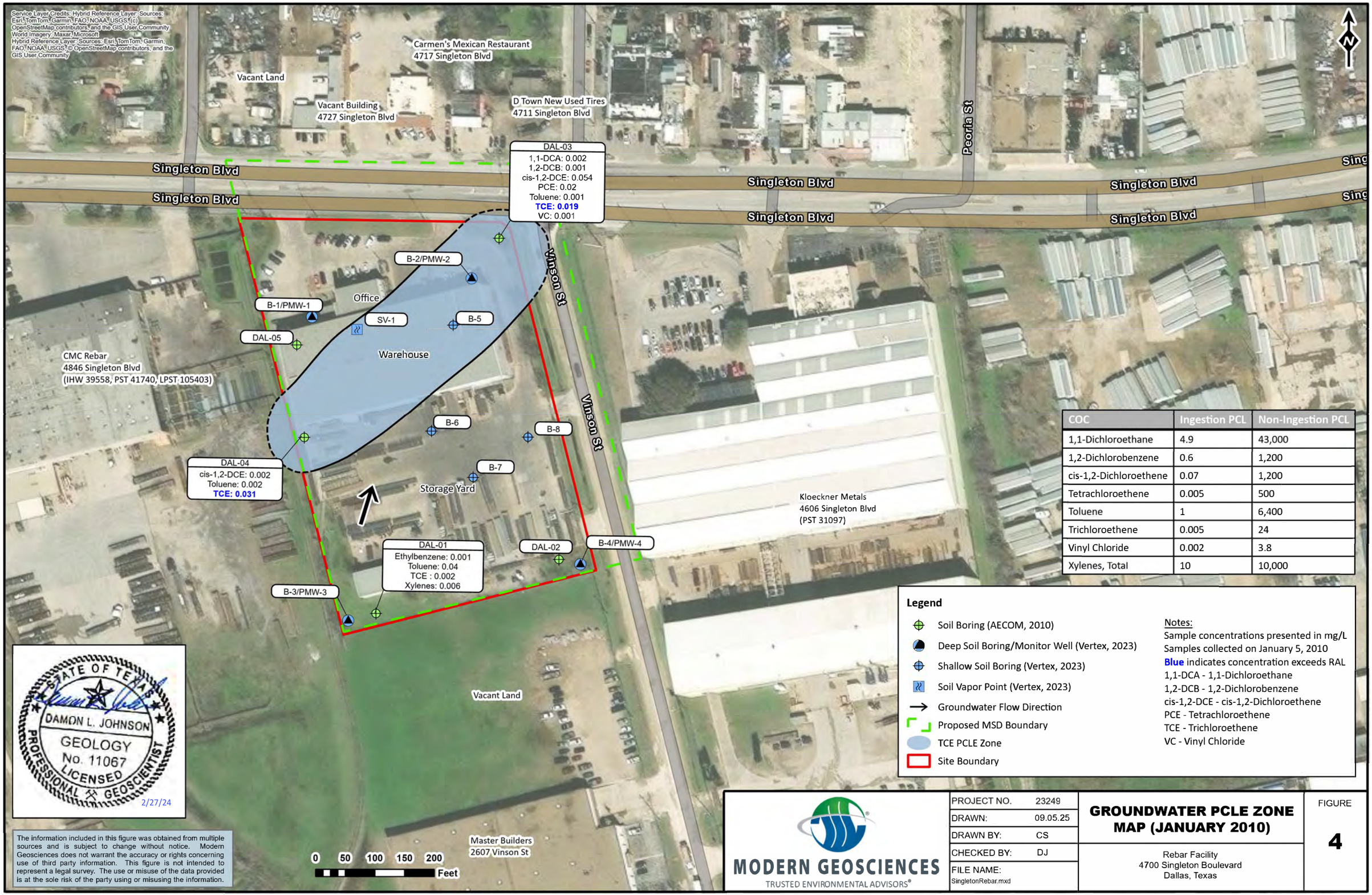
Project No.:	23249
Drawn:	09.03.25
Drawn By:	CS
Checked By:	DJ
File Name:	SingletonRebar 3- MSD SBMWLocMap

SOIL BORING AND MONITORING WELL LOCATION MAP

Rebar Facility
4700 Singleton Boulevard
Dallas, Texas

FIGURE
3



COC	Ingestion PCL	Non-Ingestion PCL
1,1-Dichloroethane	4.9	43,000
1,2-Dichlorobenzene	0.6	1,200
cis-1,2-Dichloroethene	0.07	1,200
Tetrachloroethene	0.005	500
Toluene	1	6,400
Trichloroethene	0.005	24
Vinyl Chloride	0.002	3.8
Xylenes, Total	10	10,000

Legend

- Soil Boring (AECOM, 2010)
- Deep Soil Boring/Monitor Well (Vertex, 2023)
- Shallow Soil Boring (Vertex, 2023)
- Soil Vapor Point (Vertex, 2023)
- Groundwater Flow Direction
- Proposed MSD Boundary
- TCE PCLE Zone
- Site Boundary

Notes:
Sample concentrations presented in mg/L
Samples collected on January 5, 2010
Blue indicates concentration exceeds RAL
1,1-DCA - 1,1-Dichloroethane
1,2-DCB - 1,2-Dichlorobenzene
cis-1,2-DCE - cis-1,2-Dichloroethene
PCE - Tetrachloroethene
TCE - Trichloroethene
VC - Vinyl Chloride

STATE OF TEXAS
DAMON L. JOHNSON
GEOLOGY
No. 11067
LICENSED
PROFESSIONAL GEOSCIENTIST
2/27/24

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MODERN GEOSCIENCES
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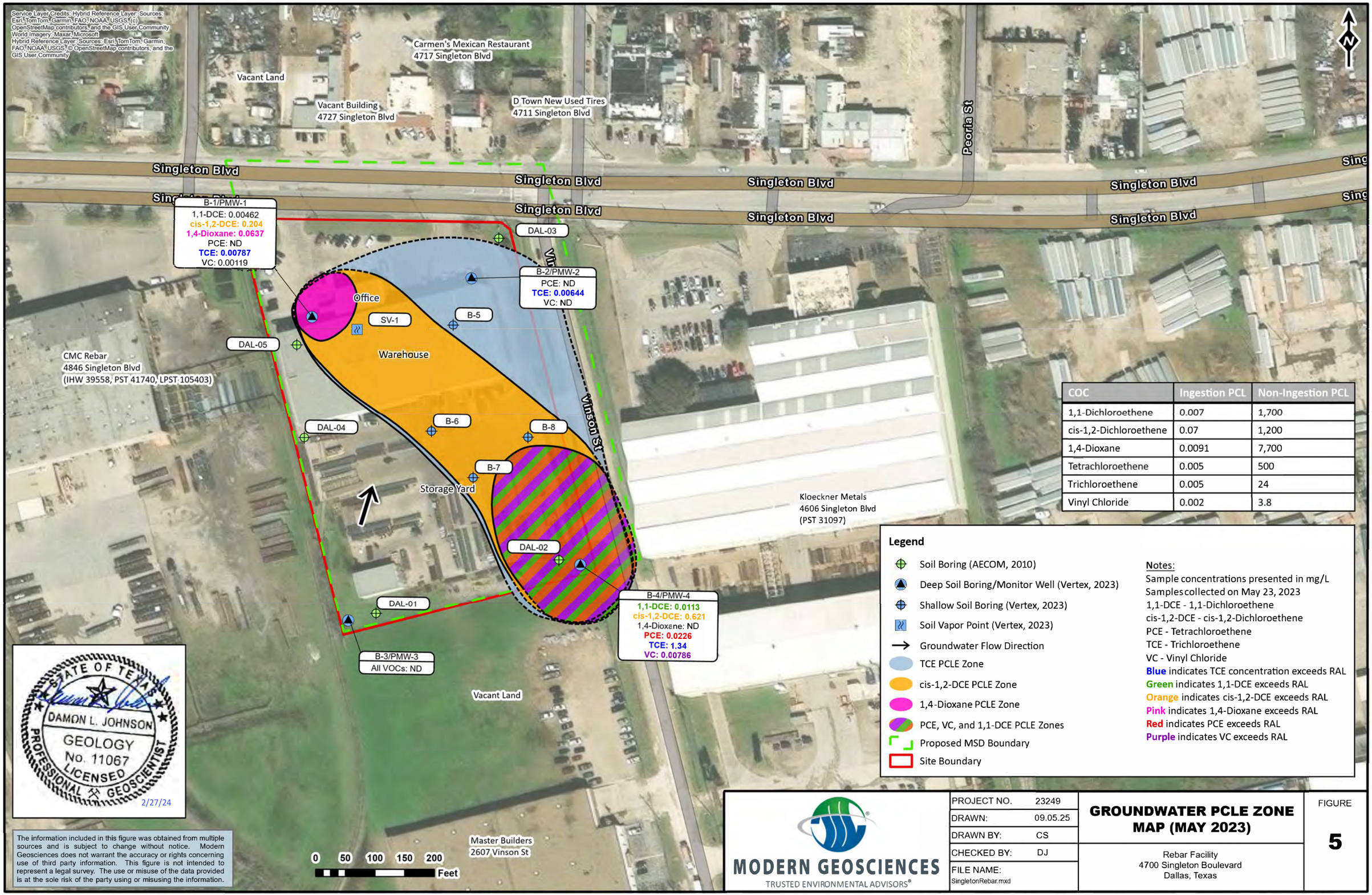
PROJECT NO.	23249
DRAWN:	09.05.25
DRAWN BY:	CS
CHECKED BY:	DJ
FILE NAME:	SingletonRebar.mxd

GROUNDWATER PCLE ZONE MAP (JANUARY 2010)

Rebar Facility
4700 Singleton Boulevard
Dallas, Texas

FIGURE
4



COC	Ingestion PCL	Non-Ingestion PCL
1,1-Dichloroethene	0.007	1,700
cis-1,2-Dichloroethene	0.07	1,200
1,4-Dioxane	0.0091	7,700
Tetrachloroethene	0.005	500
Trichloroethene	0.005	24
Vinyl Chloride	0.002	3.8

STATE OF TEXAS
DAMON L. JOHNSON
GEOLOGY
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2/27/24

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Project No.:	23249
Drawn:	02.27.24
Drawn By:	CS
Checked By:	DJ
File Name:	SingletonRebar 5A-GWGradient

GROUNDWATER GRADIENT MAP

Rebar Facility
4700 Singleton Boulevard
Dallas, Texas

FIGURE
6

Section 5 – Property Use

A description of the current use, and, to the extent known, the anticipated uses, of the designated property and properties within 500 feet of the designated property.

The proposed MSD site is composed of one (1) tract of land owned by GoodRE Singleton Investments LLC (4700 Singleton Blvd), and adjacent city rights-of-way totaling approximately 6.716 acres.

Current Use:

The Site is improved with a two-story office area and adjoining warehouse structure utilized by a rebar fabrication and distribution business operating as Nucor Harris Rebar. According to the TCEQ Central Registry records, the SIC codes associated with the Site are 3449 (miscellaneous structural metal work) and 5051 (metals service centers and offices). Three (3) expired and/or cancelled stormwater permits are the only regulatory listings associated with the Site. No significant chemical storage or use is associated with the current operations.

Historical Use:

The Site consisted of vacant land from at least the 1940s through 2000, when the current on-site structures were constructed. The Site appeared to be periodically used to stage materials during construction activities on adjacent properties in the 1970s and 1980s. The current building and rail spur were constructed in 2000. Since 2000, the Site has been utilized by a rebar fabrication and distribution business.

Future Use:

The planned future use at the Site consists of the current operations.

Current and Future Surrounding Property Use:

The surrounding area consists of primarily industrial businesses to the east and west of the Site with retail facilities and a residential neighborhood located to the north. The Site is bound to the south by vacant land followed by Master Builders, Remodelers (2607 Vinson Street). The Site is bound to the west by a former rail spur followed by CMC Rebar (4846 Singlton Blvd) and Riser Street. The Site is bound to the east by Vinson Street followed by Kloeckner Metals (4606 Singlton Blvd). The future use for the surrounding area is not anticipated to change. Figure 1 in Section 4 provides a depiction of the Site and surrounding properties within 500 feet.

Section 6 – Ingestion PCLE Zone

*For each contaminant of concern within the **ingestion protective concentration level exceedance zone**, to the extent known, provide the following:*

A. *Description of the ingestion protective concentration level exceedance zone and the non-ingestion protective concentration level exceedance zone, including a specification of the horizontal area and the minimum and maximum depth below ground surface.*

B. *The level of contamination, the ingestion protective concentration level, and the non-ingestion protective concentration level, all expressed as mg/L units.*

C. *Its basic geochemical properties (for example, whether the contaminant of concern migrates with groundwater, floats, or is soluble in water).*

The following table describes the designated groundwater.

Item	Description
Uppermost groundwater bearing unit	Perched unit within alluvium deposits
Upper level of designated groundwater	Approximately 11 feet below ground surface
Lower level of designated groundwater	Approximately 25 feet below ground surface
Groundwater gradient	North and east (see Figure 6)
Lithology underlying Site	The Site is underlain by Quaternary Alluvium Deposits to a depth of approximately 30 feet below grade. The Eagle Ford Shale underlies the Quaternary Alluvium Deposits and extends for an estimated 200 to 300 feet below grade. The Eagle Ford Shale is a recognized regional aquitard. The Woodbine Formation is located beneath the Eagle Ford Shale and is estimated to be in excess of 600 feet thick in the Site area.

Investigation Summary

Investigation activities at the Site were performed by AECOM in January 2010 and Vertex in June 2023. AECOM's investigation included the advancement of four (4) soil borings (ARRRBR-Dal-01 through ARRRBR-Dal-04) to depths ranging from 20 to 24 feet. An additional soil sample (ARRRBR-Dal-05) was collected from the discolored soils along the rail spur inside the building. Mill scale that had accumulated along the rail spur within the building was removed from that area by Green Star Environmental in May 2010 as part of a "housekeeping" effort. A total of nine (9) soil samples were collected and analyzed for RCRA 8 Metals. Three (3) of the soil borings (ARRRBR-Dal-01, ARRRBR-Dal-03, and ARRRBR-Dal-04) were

converted to temporary monitor wells. Groundwater samples collected from the temporary monitor wells were analyzed for VOCs and TPH. Vertex's investigation in June 2023 included the advancement of four (4) shallow borings (B-5 through B-8) and four (4) deep soil borings (SB-1/PMW-1 through B-4/PMW-4). The deep soil borings (PMW-1 through PMW-4) were converted to permanent monitor wells. The soil and groundwater samples collected at the Site were analyzed for VOCs.

Soil Discussion:

January 2010:
The soil samples collected exhibited detections of arsenic (up to 12.8 mg/Kg), lead (up to 25.1 mg/Kg), silver (up to 0.895 mg/Kg), and selenium (up to 3.52 mg/Kg) above their respective default TRRP RALs.

The soil sample exhibiting a concentration for selenium (ARRBR-Dal-05-S-1) above its respective TRRP RAL was removed along with mill scale during a housekeeping effort in 2010.

Modern performed a statistical evaluation of the arsenic concentrations reported in soil samples collected at the Site to evaluate whether the results are potentially representative of background conditions. The data set used to perform the statistical evaluation includes the 1-3' intervals collected from soil borings ARRRBR-Dal-01-S-1, ARRRBR-Dal-01-S-2, ARRRBR-Dal-02-S-1, ARRRBR-Dal-02-S-3, ARRRBR-Dal-03-S-1, ARRRBR-Dal-03-S-3, and ARRRBR-Dal-04-S-1, ARRRBR-Dal-04-S-3, and ARRRBR-Dal-05-S-1. The mean and standard deviation were determined to calculate a coefficient of variance (CV) to evaluate whether the data is normally distributed. The CV calculated for arsenic was 0.39, indicating a normal data distribution (i.e. less than 1). The data set was then further statistically evaluated using an Upper Confidence Limit (UCL), Upper Prediction Limit (UPL), and Upper Tolerance Limit (UTL). For this evaluation, these estimators were calculated using a one-tailed test of the 95% confidence interval from the mean. The UCL represents the most conservative demonstration while the UTL represents the most inclusive demonstration, but all are useful tools in understanding potential background concentrations and full data distribution. Modern understands the TCEQ generally prefers the use of a 95% UPL to estimate representative background values, which will typically be a value between the 95% UCL and 95% UTL. However, comparison to the 95% UTL has also been acceptable to the TCEQ in Modern's experience.

The arsenic concentrations comprising the sample data set ranged from 4.01 mg/kg to 12.8 mg/kg with a mean concentration of 7.73 mg/kg. The 95% UCL, 95% UPL, and 95% UTL for arsenic were calculated to be 9.6 mg/kg, 13.65 mg/kg, and 16.88 mg/kg, respectively. All the samples collected for arsenic from the 1-3' sample interval during this assessment exhibited concentrations below the calculated 95% UPL (13.65 mg/kg) and appear to be representative of anthropogenic background. A statistical background evaluation spreadsheet is provided in Section 16.

June 2023:
The soil samples collected at the Site by Vertex did not exhibit detections of any VOCs above the default TRRP RALs.

Soil samples collected at the Site did not exhibit concentrations of COCs above the default TRRP RALs, calculated site-specific Tier 2 PCLs, or 95% UPL calculated to evaluate potential background conditions.

Groundwater Discussion:

January 2010:

The groundwater samples collected from ARRRBR-Dal-03 and ARRRBR-Dal-04 exhibited trichloroethene concentrations of 0.019 mg/L and 0.031 mg/L, respectively, which exceed the default TRRP RAL of 0.005 mg/L. Additionally, the groundwater sample collected from ARRRBR-Dal-03 exhibited a tetrachloroethene concentration of 0.02 mg/L, which exceeds the default TRRP RAL of 0.005 mg/L.

June 2023:

The groundwater samples collected from monitor wells PMW-1, PMW-2, PMW-3, and PMW-4 exhibited detections of 1,1-dichloroethene (up to 0.0113 mg/L), cis-1,2-dichloroethene (up to 0.621 mg/L), tetrachloroethene (up to 0.0226 mg/L), trichloroethene (up to 1.34 mg/L), vinyl chloride (up to 0.00786 mg/L), and 1,4-dioxane (up to 0.0637 mg/L) above their respective default TRRP RALs.

1,1-dichloroethene, cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, vinyl chloride, and 1,4-dioxane PCLE Zones in groundwater were identified. These releases are suspected to be from an off-site source.

COCs in Groundwater PCLE Zone

The following table provides information on COCs identified in the designated groundwater at concentrations exceeding Residential Assessment Levels.

COC	CAS No.	Sample Date	Sample ID	Most Recent Maximum Concentration Observed (mg/L)	GW Ingestion PCL ($^{GW}GW_{Ing}$) w/o MSD	GW Non-Ingestion PCL ($^{Air}GW_{Inh-V}$) w/ MSD	Estimated PCLE Zone Area (Acres)*
1,1-Dichloroethene	75-35-4	5.23.23	PMW-4	**0.0113**	0.007	1,700	2.138
1,4-Dioxane	123-91-1	5.23.23	PMW-1	**0.0637**	0.0091	7,700	0.149
cis-1,2-Dichloroethene	156-59-2	5.23.23	PMW-4	**0.621**	0.07	1200	2.230
Tetrachloroethene	127-18-4	5.23.23	PMW-4	**0.0226**	0.005	500	2.138
Trichloroethene	79-01-6	5.23.23	PMW-4	**1.34**	0.005	24	3.308
Vinyl Chloride	75-01-4	5.23.23	PMW-4	**0.00786**	0.002	3.8	2.138

Utilizes February 2025 TRRP PCLs (0.5-acre source); All concentrations in mg/L

*Estimated PCLE Zone within the proposed MSD boundary.

There are no identified non-ingestion Protective Concentration Level Exceedance (PCLE) Zones (i.e., groundwater concentrations exceeding applicable TRRP Tier 1 Residential $^{Air}GW_{Inh-V}$ PCLs) on the Designated Property.

The chemical and physical properties of COCs noted above the GW Ingestion ($^{GW}GW_{Ing}$) PCLs are included in Section 7.

COCs in Soil

No COCs were detected in surface soils at concentrations exceeding TRRP RALs.

Section 7 – COCs Detected in Designated Groundwater

For each contaminant of concern within the designated groundwater, to the extent known, provide the following:

A. *Description of the ingestion protective concentration level exceedance zone and the non-ingestion protective concentration level exceedance zone, including a specification of the horizontal area and the minimum and maximum depth below ground surface.*

B. *The level of contamination, the ingestion protective concentration level, and the non-ingestion protective concentration level, all expressed as mg/L units.*

C. *Its basic geochemical properties (for example, whether the contaminant of concern migrates with groundwater, floats, or is soluble in water).*

The following table lists the maximum concentrations of all COCs detected within the designated groundwater and the applicable Groundwater Ingestion and Non-ingestion PCLs.

COC	Sample Date	Sample ID	Maximum Concentration Detected (mg/L)	GW Ingestion PCL ($^{GW}GW_{Ing}$) w/o MSD	GW Non-Ingestion PCL ($^{Air}GW_{Inh-V}$) w/ MSD
1,1-Dichloroethane	5.23.23	PMW-4	**0.00991**	4.9	43,000
1,1-Dichloroethene	5.23.23	PMW-4	**0.0113**	0.007	1,700
1,2-Dichlorobenzene	5.23.23	PMW-1	**0.0448**	0.6	1,200
1,3-Dichlorobenzene	5.23.23	PMW-1	**0.00146**	0.73	190
1,4-Dichlorobenzene	5.23.23	PMW-1	**0.0173**	0.075	17,000
2-Butanone	5.23.23	PMW-4	**0.0508**	15	1,000,000
Benzene	5.23.23	PMW-1	**0.000503 J**	0.005	180
Chlorobenzene	5.23.23	PMW-1	**0.0777**	0.1	1,200
cis-1,2-Dichloroethene	5.23.23	PMW-4	**0.621**	0.07	1,200
1,4-Dioxane	5.23.23	PMW-1	**0.0637**	0.0091	7,700
Ethylbenzene	1.5.10	Dal-01-GW	**0.001**	0.7	30,000
Tetrachloroethene	5.23.23	PMW-4	**0.0226**	0.005	500
Toluene	1.5.10	Dal-01-GW	**0.04**	1	6,400
trans-1,2-Dichloroethene	5.23.23	PMW-4	**0.0179**	0.1	770
Trichloroethene	5.23.23	PMW-4	**1.34**	0.005	24
Vinyl Chloride	5.23.23	PMW-4	**0.00786**	0.002	3.8
Xylenes, Total	1.5.10	Dal-01-GW	**0.006**	10	10,000

Utilizes February 2025 TRRP PCLs (0.5 acre source); All concentrations in mg/L

J= Estimated value below the lowest calibration point. Confidence correlates with concentration.

Compounds 1,1-dichloroethene, cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, vinyl chloride, and 1,4-dioxane exceed the ingestion-based PCLs in groundwater. The densities of 1,1-

dichloroethene, cis-1,2-dichloroethene, tetrachloroethene, trichloroethene and 1,4-dioxane are greater than 1. Compounds with a density greater than 1 will generally sink in groundwater when present in sufficient quantities and will migrate in groundwater as a dissolved solute. Additional geochemical information concerning each of the COCs listed above is included in the following pages. Additionally, it should be noted that the COCs exceeding the GW Ingestion ($^{GW}GW_{Ing}$) PCLs are discussed in Section 6.

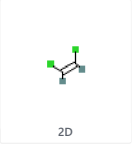
Chemical and Physical Properties provided for:

- 1,1-dichloroethene, cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, vinyl chloride, and 1,4-dioxane

COVID-19 Information
Public health information (CDC) Research information (NIH) SARS-CoV-2 data (NCBI) Prevention and treatment information (HHS) Español

PubChem

cis-1,2-Dichloroethylene

PubChem CID	643833
Structure	 2D Find Similar Structures
Synonyms	CIS-1,2-DICHLOROETHYLENE (Z)-1,2-Dichloroethene cis-1,2-Dichloroethene 156-59-2 (Z)-1,2-Dichloroethylene More...
Molecular Formula	$C_2H_2Cl_2$ or ClCH=CHCl
Molecular Weight	96.94

Learn More About LCSS Project >

1 GHS Classification

Showing 1 of 7 View More

Pictogram(s)	Flammable Irritant
Signal	Danger
GHS Hazard Statements	H225 (100%): Highly Flammable liquid and vapor [Danger Flammable liquids] H332 (100%): Harmful if inhaled [Warning Acute toxicity, inhalation] H412 (100%): Harmful to aquatic life with long lasting effects [Hazardous to the aquatic environment, long-term hazard]
Precautionary Statement Codes	P210, P233, P240, P241, P242, P243, P261, P271, P273, P280, P303+P361+P353, P304+P312, P304+P340, P312, P370+P378, P403+P235, and P501 (The corresponding statement to each P-code can be found at the GHS Classification page.)
ECHA C&L Notifications Summary	*Aggregated GHS information provided by 40 companies from 2 notifications to the ECHA C&L Inventory. Each notification may be associated with multiple companies.* *Information may vary between notifications depending on impurities, additives, and other factors. The percentage value in parenthesis indicates the notified classification ratio from companies that provide hazard codes. Only hazard codes with percentage values above 10% are shown.*

European Chemicals Agency (ECHA)

2 Identifiers

2.1 CAS

156-59-2

- CAMEO Chemicals; CAS Common Chemistry; ChemIDplus; DTP/NCI; EPA Acute Exposure Guideline Levels (AEGLs); EPA Chemicals under the TSCA; EPA DSSTox; European Chemicals Agency (ECHA); Hazardous Substances Data Bank

540-59-0

- European Chemicals Agency (ECHA); ILO International Chemical Safety Cards (ICSC)

2.2 InChI

InChI=1S/C2H2Cl2/c3-1-2-4/h1-2H/b2-1-

Computed by InChI 1.0.6 (PubChem release 2021.05.07)

- PubChem

2.3 InChI Key

KFUSEUYYWQURPO-UPHRSURJSA-N

Computed by InChI 1.0.6 (PubChem release 2021.05.07)

- PubChem

3 Physical Properties

3.1 Physical Description

Showing 2 of 3 View More

1,2-dichloroethylene, (cis isomers) appears as a clear colorless liquid with an ether-like odor. Flash point 36-39°F. Denser than water and insoluble in water. Vapors heavier than air. Used in the making of perfumes.

- CAMEO Chemicals

COLOURLESS LIQUID WITH CHARACTERISTIC ODOUR.

- ILO International Chemical Safety Cards (ICSC)

3.2 Odor

Sweetish

Dreher E-L et al; Chloroethanes and Chloroethylenes. Ullmann's Encyclopedia of Industrial Chemistry. (1999-2018). New York, NY: John Wiley & Sons. Online Posting Date: 19 Nov 2014

- Hazardous Substances Data Bank (HSDB)

3.3 Boiling Point

Showing 2 of 6 View More

140 °F at 760 mm Hg (NTP, 1992)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

- CAMEO Chemicals

54.4 °C

- EPA DSSTox

3.4 Melting Point

Showing 2 of 4 View More

-112.9 °F (NTP, 1992)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

- CAMEO Chemicals

-64.9 °C

- EPA DSSTox

3.5 Flash Point

Showing 2 of 5 View More

39 °F (NTP, 1992)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

- CAMEO Chemicals

6.0 °C (42.8 °F) - closed cup

Sigma-Aldrich; Safety Data Sheet for cis-Dichloroethylene. Product Number: 48597, Version 4.4 (Revision Date 12/01/2015). Available from, as of May 23, 2018: https://www.sigmaaldrich.com/safety-center.html

- Hazardous Substances Data Bank (HSDB)

3.6 Solubility

Showing 2 of 8 View More

1 to 5 mg/mL at 61° F (NTP, 1992)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

- CAMEO Chemicals

0.05 M

HORVATH,AL ET AL. (1999)

- EPA DSSTox

3.7 Density

Showing 2 of 4 View More

1.2837 at 68 °F (NTP, 1992)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

CAMEO Chemicals

1.2837 g/cu cm at 20 °C

Haynes, W.M. (ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 3-162

Hazardous Substances Data Bank (HSDB)

3.8 Vapor Density

Showing 2 of 3 View More

3.34 (NTP, 1992) (Relative to Air)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

CAMEO Chemicals

3.54 g/L (at BP, 760 mm Hg)

Flick, E.W. (ed.). Industrial Solvents Handbook 4 th ed. Noyes Data Corporation., Park Ridge, NJ., 1991., p. 143

Hazardous Substances Data Bank (HSDB)

3.9 Vapor Pressure

Showing 2 of 5 View More

200 mm Hg at 77 °F ; 400 mm Hg at 106° F (NTP, 1992)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

CAMEO Chemicals

Residue on evaporation: 0.007% by weight (maximum); Vapor pressure: 273 mm Hg at 30 °C

Flick, E.W. (ed.). Industrial Solvents Handbook 4 th ed. Noyes Data Corporation., Park Ridge, NJ., 1991., p. 143

Hazardous Substances Data Bank (HSDB)

3.10 Autoignition Temperature

860 °F (NTP, 1992)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

CAMEO Chemicals

460 °C

ILO International Chemical Safety Cards (ICSC)

3.11 Decomposition

When heated to decomposition it emits toxic fumes of /chloride/.

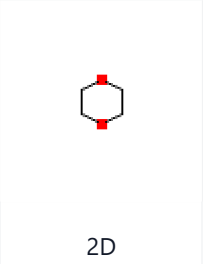
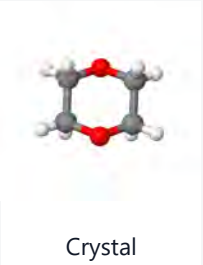
Lewis, R.J. Sr. (ed) Sax's Dangerous Properties of Industrial Materials. 11th Edition. Wiley-Interscience, Wiley & Sons, Inc. Hoboken, NJ. 2004., p. 1191

Hazardous Substances Data Bank (HSDB)

National Library of Medicine
National Center for Biotechnology Information

COMPOUND SUMMARY

Dioxane

PubChem CID	31275
Structure	 2D 3D  Crystal
Chemical Safety	Flammable Irritant Health Hazard Laboratory Chemical Safety Summary (LCSS) Datasheet
Molecular Formula	$C_4H_8O_2$
Synonyms	1,4-DIOXANE Dioxane 123-91-1 p-Dioxane Diethylene ether View More...
Molecular Weight	88.11 g/mol *Computed by PubChem 2.2 (PubChem release 2021.10.14)*
Dates	Create: 2005-03-26 Modify: 2024-02-17
Description	1,4-Dioxane is a clear liquid that easily dissolves in water. It is used primarily as a solvent in the manufacture of chemicals and as a laboratory reagent; 1,4-dioxane also has various other uses that take

advantage of its solvent properties. 1,4-Dioxane is a trace contaminant of some chemicals used in cosmetics, detergents, and shampoos. However, manufacturers now reduce 1,4-dioxane from these chemicals to low levels before these chemicals are made into products used in the home.

- Agency for Toxic Substances and Disease Registry (ATSDR)

Dioxane appears as a clear colorless liquid with a faint ethereal odor. Flash point 55 °F. Slightly denser than water and soluble in water. Vapors heavier than air. Susceptible to autooxidation to form peroxides.

- CAMEO Chemicals

1,4-dioxane is a dioxane with oxygen atoms at positions 1 and 4. It has a role as a non-polar solvent, a carcinogenic agent and a metabolite. It is a volatile organic compound and a dioxane.

- ChEBI

View More...

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1 Structures

1.1 2D Structure

Chemical Structure Depiction

PubChem

1.2 3D Conformer

PubChem

1.3 Crystal Structures

1 of 3	View All
CCDC Number	656093
Associated Article	DOI:10.1039/b822832a
Crystal Structure Data	DOI:10.5517/ccq0q9q

Crystal Structure Depiction

- The Cambridge Structural Database

2 Names and Identifiers

2.1 Computed Descriptors

2.1.1 IUPAC Name

1,4-dioxane

Computed by Lexichem TK 2.7.0 (PubChem release 2021.10.14)

- PubChem

2.1.2 InChI

InChI=1S/C4H8O2/c1-2-6-4-3-5-1/h1-4H2

Computed by InChI 1.0.6 (PubChem release 2021.10.14)

- PubChem

2.1.3 InChIKey

RYHBNJHYFVUHQT-UHFFFAOYSA-N

Computed by InChI 1.0.6 (PubChem release 2021.10.14)

- PubChem

2.1.4 Canonical SMILES

C1COCCO1

Computed by OEChem 2.3.0 (PubChem release 2021.10.14)

- PubChem

2.2 Molecular Formula

$C_4H_8O_2$

Computed by PubChem 2.2 (PubChem release 2021.10.14)

- CAMEO Chemicals; PubChem

$C_4H_8O_2$

- ILO-WHO International Chemical Safety Cards (ICSCs)

2.3 Other Identifiers

2.3.1 CAS

123-91-1

- CAMEO Chemicals; CAS Common Chemistry; ChemIDplus; DrugBank; DTP/NCI; EPA Acute Expos...

2.3.2 Related CAS

28552-22-9

Compound: Polydioxane

- CAS Common Chemistry

2.3.3 Deprecated CAS

28347-88-8, 28347-91-3, 39449-24-6, 54841-74-6

- ChemIDplus

28347-88-8, 39449-24-6, 28347-91-3

- EPA DSSTox

2.3.4 European Community (EC) Number

204-661-8

- European Chemicals Agency (ECHA)

2.3.5 UNII

J8A3S10O7S

- FDA Global Substance Registration System (GSRS)

2.3.6 UN Number

1165

- CAMEO Chemicals; ILO-WHO International Chemical Safety Cards (ICSCs); NJDOH RTK Hazardous...

1165 (Dioxane)

- Emergency Response Guidebook (ERG)

2.3.7 DrugBank ID

DB03316

- DrugBank

2.3.8 ChEMBL ID

CHEMBL453716

- ChEMBL

2.3.9 DSSTox Substance ID

DTXSID4020533

- EPA DSSTox

2.3.10 ICSC Number

0041

- ILO-WHO International Chemical Safety Cards (ICSCs)

2.3.11 KEGG ID

C14440

- KEGG

2.3.12 Metabolomics Workbench ID

52456

- Metabolomics Workbench

2.3.13 NCI Thesaurus Code

C44298

- NCI Thesaurus (NCIt)

2.3.14 Nikkaji Number

J2.502J

- Japan Chemical Substance Dictionary (Nikkaji)

2.3.15 NSC Number

8728

- DTP/NCI

2.3.16 RTECS Number

JG8225000

- The National Institute for Occupational Safety and Health (NIOSH)

2.3.17 RXCUI

2383534

- NLM RxNorm Terminology

2.3.18 Wikidata

Q161532

- Wikidata

Q83069696

- Wikidata

2.3.19 Wikipedia

1,4-Dioxane

- Wikipedia

2.4 Synonyms

2.4.1 MeSH Entry Terms

1,4-dioxane
diethylene ether
dioxan

dioxane
p-dioxane

Medical Subject Headings (MeSH)

2.4.2 Depositor-Supplied Synonyms

1,4-DIOXANE	Tetrahydro-1,4-dioxin	Diokan	NE 220
Dioxane	Dioxane-1,4	Dioksan	1.4-dioxane
123-91-1	Dioxanne	para-Dioxane	1-4 Dioxane
p-Dioxane	Diethylene dioxide	Diossano-1,4	MFCD00006571
Diethylene ether	Glycol ethylene ether	Dioxaan-1,4	1,4-Dioxin, tetrahydro-
1,4-Diethylene dioxide	1,4-Dioxan	p-Dioxin, tetrahydro-	UN 1165
Dioxan	Dioxan-1,4	RCRA waste number U108	J8A3S10O7S
1,4-Dioxacyclohexane	p-Dioxan	1,4-Dioxanne	DTXSID4020533
Tetrahydro-p-dioxin	Tetrahydro-para-dioxin	NCI-C03689	CHEBI:47032
Di(ethylene oxide)	Dioxyethylene ether	NSC 8728	NSC-8728

PubChem

3 Chemical and Physical Properties

3.1 Computed Properties

Property Name	Property Value	Reference
Molecular Weight	88.11 g/mol	Computed by PubChem 2.2 (PubChem release 2021.10.14)
XLogP3	-0.3	Computed by XLogP3 3.0 (PubChem release 2021.10.14)
Hydrogen Bond Donor Count	0	Computed by Cactvs 3.4.8.18 (PubChem release 2021.10.14)
Hydrogen Bond Acceptor Count	2	Computed by Cactvs 3.4.8.18 (PubChem release 2021.10.14)
Rotatable Bond Count	0	Computed by Cactvs 3.4.8.18 (PubChem release 2021.10.14)

Exact Mass	88.052429494 g/mol	Computed by PubChem 2.2 (PubChem release 2021.10.14)
Monoisotopic Mass	88.052429494 g/mol	Computed by PubChem 2.2 (PubChem release 2021.10.14)
Topological Polar Surface Area	18.5Å^2	Computed by Cactvs 3.4.8.18 (PubChem release 2021.10.14)
Heavy Atom Count	6	Computed by PubChem
Formal Charge	0	Computed by PubChem
Complexity	26.5	Computed by Cactvs 3.4.8.18 (PubChem release 2021.10.14)
Isotope Atom Count	0	Computed by PubChem
Defined Atom Stereocenter Count	0	Computed by PubChem
Undefined Atom Stereocenter Count	0	Computed by PubChem
Defined Bond Stereocenter Count	0	Computed by PubChem
Undefined Bond Stereocenter Count	0	Computed by PubChem
Covalently-Bonded Unit Count	1	Computed by PubChem
Compound Is Canonicalized	Yes	Computed by PubChem (release 2021.10.14)

PubChem

3.2 Experimental Properties

3.2.1 Physical Description

Dioxane appears as a clear colorless liquid with a faint ethereal odor. Flash point 55 °F. Slightly denser than water and soluble in water. Vapors heavier than air. Susceptible to autooxidation to form peroxides.

CAMEO Chemicals

Liquid

- EPA Chemicals under the TSCA

Colorless liquid or solid (below 53 degrees F) with a mild, ether-like odor; [NIOSH]

- Haz-Map, Information on Hazardous Chemicals and Occupational Diseases

COLOURLESS LIQUID WITH CHARACTERISTIC ODOUR.

- ILO-WHO International Chemical Safety Cards (ICSCs)

Colorless liquid or solid (below 53 °F) with a mild, ether-like odor.

- Occupational Safety and Health Administration (OSHA); The National Institute for Occupational S...

3.2.2 Color / Form

Colorless liquid or solid (below 53 degrees F)

NIOSH. NIOSH Pocket Guide to Chemical Hazards. Department of Health & Human Services, Centers for Disease Control & Prevention. National Institute for Occupational Safety & Health. DHHS (NIOSH) Publication No. 2010-168 (2010). Available from: ***https://www.cdc.gov/niosh/npg***

- Hazardous Substances Data Bank (HSDB)

3.2.3 Odor

Faint pleasant odor

O'Neil, M.J. (ed.). The Merck Index - An Encyclopedia of Chemicals, Drugs, and Biologicals. Cambridge, UK: Royal Society of Chemistry, 2013., p. 601

- Hazardous Substances Data Bank (HSDB)

Mild, ether-like odor

NIOSH. NIOSH Pocket Guide to Chemical Hazards. Department of Health & Human Services, Centers for Disease Control & Prevention. National Institute for Occupational Safety & Health. DHHS (NIOSH) Publication No. 2010-168 (2010). Available from: ***https://www.cdc.gov/niosh/npg***

- Hazardous Substances Data Bank (HSDB)

The odor of dioxane in low concentrations is faint and generally inoffensive and has been described as being somewhat alcoholic.

Cragg ST; Ethers of Ethylene Glycol and Derivatives. Patty's Toxicology. 6th ed. (1999-2015). New York, NY: John Wiley & Sons, Inc. On-line Posting Date: Aug 17, 2012.

- Hazardous Substances Data Bank (HSDB)

3.2.4 Boiling Point

214 °F at 760 mmHg (NTP, 1992)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

- CAMEO Chemicals

101.2 °C

Haynes, W.M. (ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 3-228

- Hazardous Substances Data Bank (HSDB)

101 °C

- ILO-WHO International Chemical Safety Cards (ICSCs)

214 °F

- Occupational Safety and Health Administration (OSHA); The National Institute for Occupational S...

3.2.5 Melting Point

53.2 °F (NTP, 1992)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

- CAMEO Chemicals

11.75 °C

Haynes, W.M. (ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 3-228

- Hazardous Substances Data Bank (HSDB)

12 °C

- ILO-WHO International Chemical Safety Cards (ICSCs)

53 °F

- Occupational Safety and Health Administration (OSHA); The National Institute for Occupational S...

3.2.6 Flash Point

54 °F (NTP, 1992)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

- CAMEO Chemicals

18 °C

- Haz-Map, Information on Hazardous Chemicals and Occupational Diseases

65 °F (18.3 °C) (Open cup)

Lewis, R.J. Sr.; Hawley's Condensed Chemical Dictionary 15th Edition. John Wiley & Sons, Inc. New York, NY 2007., p. 461

- Hazardous Substances Data Bank (HSDB)

12 °C c.c.

- ILO-WHO International Chemical Safety Cards (ICSCs)

55 °F

- Occupational Safety and Health Administration (OSHA); The National Institute for Occupational S...

3.2.7 Solubility

greater than or equal to 100 mg/mL at 68 °F (NTP, 1992)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

- CAMEO Chemicals

In water, >800 g/L at 25 °C

Yalkowsky, S.H., He, Yan, Jain, P. Handbook of Aqueous Solubility Data Second Edition. CRC Press, Boca Raton, FL 2010, p. 118

- **Hazardous Substances Data Bank (HSDB)**

Miscible with most organic solvents

Lewis, R.J. Sr.; Hawley's Condensed Chemical Dictionary 15th Edition. John Wiley & Sons, Inc. New York, NY 2007., p. 461

- **Hazardous Substances Data Bank (HSDB)**

Miscible with aromatic hydrocarbons and oils.

USEPA; Chemical Hazard Information Profile: 1,4-Dioxane (Draft) p.1 (1979)

- **Hazardous Substances Data Bank (HSDB)**

Solubility in water: miscible

- **ILO-WHO International Chemical Safety Cards (ICSCs)**

Miscible

- **The National Institute for Occupational Safety and Health (NIOSH)**

3.2.8 Density

1.036 at 68 °F (USCG, 1999) - Denser than water; will sink

U.S. Coast Guard. 1999. Chemical Hazard Response Information System (CHRIS) - Hazardous Chemical Data. Commandant Instruction 16465.12C. Washington, D.C.: U.S. Government Printing Office.

- **CAMEO Chemicals**

1.0337 g/cu cm at 20 °C

Haynes, W.M. (ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 3-228

- **Hazardous Substances Data Bank (HSDB)**

Relative density (water = 1): 1.03

- **ILO-WHO International Chemical Safety Cards (ICSCs)**

1.03

- Occupational Safety and Health Administration (OSHA); The National Institute for Occupational S...

3.2.9 Vapor Density

3.03 (NTP, 1992) - Heavier than air; will sink (Relative to Air)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

- CAMEO Chemicals

3.03 (Air = 1)

Lewis, R.J. Sr. (ed) Sax's Dangerous Properties of Industrial Materials. 12th Edition. Wiley-Interscience, Wiley & Sons, Inc. Hoboken, NJ. 2012., p. 1819

- Hazardous Substances Data Bank (HSDB)

Relative vapor density (air = 1): 3.0

- ILO-WHO International Chemical Safety Cards (ICSCs)

3.03

- Occupational Safety and Health Administration (OSHA)

3.2.10 Vapor Pressure

29 mmHg at 68 °F ; 37 mmHg at 77 °F (NTP, 1992)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

- CAMEO Chemicals

38.1 [mmHg]

- Haz-Map, Information on Hazardous Chemicals and Occupational Diseases

38.1 mm Hg at 25 °C

Daubert, T.E., R.P. Danner. Physical and Thermodynamic Properties of Pure Chemicals Data Compilation. Washington, D.C.: Taylor and Francis, 1989.

- Hazardous Substances Data Bank (HSDB)

Vapor pressure, kPa at 20 °C: 3.9

- ILO-WHO International Chemical Safety Cards (ICSCs)

29 mmHg

- Occupational Safety and Health Administration (OSHA); The National Institute for Occupational S...

3.2.11 LogP

log Kow = -0.27

Hansch, C., Leo, A., D. Hoekman. Exploring QSAR - Hydrophobic, Electronic, and Steric Constants. Washington, DC: American Chemical Society., 1995., p. 8

- Hazardous Substances Data Bank (HSDB)

-0.27

- ILO-WHO International Chemical Safety Cards (ICSCs)

3.2.12 Henry's Law Constant

Henry's Law constant = 4.8X10-6 atm-cu m/mol at 25 °C

Park JH et al; Anal Chem 59: 1970-1976 (1987)

- Hazardous Substances Data Bank (HSDB)

3.2.13 Stability / Shelf Life

Stable under recommended storage conditions. Test for peroxide formation before distillation or evaporation. Test for peroxide formation or discard after 1 year. Stable under recommended storage conditions.

Sigma-Aldrich; Safety Data Sheet for 1,4-Dioxane. Product Number: 296309, Version 5.4 (Revision Date 03/03/2015). Available from, as of April 27, 2015: ***https://www.sigmaaldrich.com/safety-center.html***

- Hazardous Substances Data Bank (HSDB)

Stable to light but forms peroxide in air, especially in presence of moisture.

*IARC. Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans. Geneva: World Health Organization, International Agency for Research on Cancer, 1972-PRESENT. (Multivolume work). Available at: **https://monographs.iarc.fr/ENG/Classification/index.php**, p. V11 247 (1976)*

- **Hazardous Substances Data Bank (HSDB)**

3.2.14 Autoignition Temperature

356 °F (USCG, 1999)

U.S. Coast Guard. 1999. Chemical Hazard Response Information System (CHRIS) - Hazardous Chemical Data. Commandant Instruction 16465.12C. Washington, D.C.: U.S. Government Printing Office.

- **CAMEO Chemicals**

Autoignition temperature, 356 °F, (180 °C)

National Fire Protection Association; Fire Protection Guide to Hazardous Materials. 14TH Edition, Quincy, MA 2010, p. 325-53

- **Hazardous Substances Data Bank (HSDB)**

180 °C

- **ILO-WHO International Chemical Safety Cards (ICSCs)**

3.2.15 Decomposition

When heated to decomposition it emits acrid smoke and irritating fumes.

Lewis, R.J. Sr. (ed) Sax's Dangerous Properties of Industrial Materials. 11th Edition. Wiley-Interscience, Wiley & Sons, Inc. Hoboken, NJ. 2004., p. 1500

- **Hazardous Substances Data Bank (HSDB)**

3.2.16 Viscosity

0.0120 centipoise at 25 °C

O'Neil, M.J. (ed.). The Merck Index - An Encyclopedia of Chemicals, Drugs, and Biologicals. Cambridge, UK: Royal Society of Chemistry, 2013., p. 601

- **Hazardous Substances Data Bank (HSDB)**

1.17 mm^2/s at 25 °C

- ILO-WHO International Chemical Safety Cards (ICSCs)

3.2.17 Heat of Combustion

581 kcal/mol

O'Neil, M.J. (ed.). The Merck Index - An Encyclopedia of Chemicals, Drugs, and Biologicals. Cambridge, UK: Royal Society of Chemistry, 2013., p. 601

- Hazardous Substances Data Bank (HSDB)

3.2.18 Heat of Vaporization

34.15 kJ/mol at 101.5 °C; 38.60 kJ/mol at 25 °C

Haynes, W.M. (ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 6-137

- Hazardous Substances Data Bank (HSDB)

3.2.19 Surface Tension

32.75 mN/m at 25 °C; 29.28 mN/m at 50 °C

Haynes, W.M. (ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 6-183

- Hazardous Substances Data Bank (HSDB)

3.2.20 Ionization Potential

9.13 eV

- Occupational Safety and Health Administration (OSHA); The National Institute for Occupational S...

3.2.21 Odor Threshold

Odor Threshold Low: 0.8 [mmHg]

Odor Threshold High: 172.0 [mmHg]

Detection odor threshold from AIHA (mean = 12 ppm)

- Haz-Map, Information on Hazardous Chemicals and Occupational Diseases

...Air threshold of recognition at 170 ppm. This odor recognition threshold allows for dioxane to be detected before acute toxic effects occur.

Sullivan, J.B., Krieger G.R. (eds). Clinical Environmental Health and Toxic Exposures. Second edition. Lippincott Williams and Wilkins, Philadelphia, Pennsylvania 1999., p. 1196

- Hazardous Substances Data Bank (HSDB)

3.2.22 Refractive Index

Index of refraction: 1.4224 20 °C

Haynes, W.M. (ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 3-228

- Hazardous Substances Data Bank (HSDB)

3.2.23 Relative Evaporation Rate

2.7 (Butyl acetate = 1)

USEPA; Phase I Risk Assessment of 1,4-Dioxane p.2 (1981) EPA Contract No. 68-01-6030

- Hazardous Substances Data Bank (HSDB)

3.2.24 Kovats Retention Index

Standard non-polar	690, 690, 731.3, 718, 705, 721, 697, 696, 696, 698, 690, 692, 694, 690, 693, 696, 699, 696, 696, 697, 686, 680, 687.3, 690, 702, 690, 696, 686, 692, 687
Semi-standard non-polar	670.1, 648, 669.7, 671, 643, 648, 687, 702, 660.3, 675, 680, 651, 687, 705, 706, 694, 694
Standard polar	1065, 1066, 1065, 1093, 1097, 1100, 1081, 1083, 1081.8, 1083, 1085, 1068, 1084, 1105, 1066, 1065

- NIST Mass Spectrometry Data Center

3.2.25 Other Experimental Properties

Cryoscopic constant: 4.83; heat of fusion: 2.98 kcal/mol; specific heat: 0.0370 kcal/mol/deg C at 20 °C; azeotropic mixture with **water**: 81.6% dioxane, bp 87.8 °C; azeotropic mixture with **ethanol**: 9.3% dioxane, bp 78.1 °C

O'Neil, M.J. (ed.). The Merck Index - An Encyclopedia of Chemicals, Drugs, and Biologicals. Cambridge, UK: Royal Society of Chemistry, 2013., p. 601

- **Hazardous Substances Data Bank (HSDB)**

Hygroscopic

Cragg ST; Ethers of Ethylene Glycol and Derivatives. Patty's Toxicology. 6th ed. (1999-2015). New York, NY: John Wiley & Sons, Inc. On-line Posting Date: Aug 17, 2012.

- **Hazardous Substances Data Bank (HSDB)**

1 mg/cu m = 0.278 ppm, 1 ppm = 3.6 mg/cu m

Verschueren, K. Handbook of Environmental Data on Organic Chemicals. Volumes 1-2. 4th ed. John Wiley & Sons. New York, NY. 2001, p. 985

- **Hazardous Substances Data Bank (HSDB)**

Distillation range 95-103 °C at 760 mm Hg

Flick, E.W. Industrial Solvents Handbook. 3rd ed. Park Ridge, NJ: Noyes Publications, 1985., p. 399

- **Hazardous Substances Data Bank (HSDB)**

For more Other Experimental Properties (Complete) data for **1,4-DIOXANE** (7 total), please visit the **HSDB record page**.

- **Hazardous Substances Data Bank (HSDB)**

3.2.26 Chemical Classes

Solvents -> Ethers (<C12)

- **Haz-Map, Information on Hazardous Chemicals and Occupational Diseases**

3.3 SpringerMaterials Properties

Schoenflies notation	Critical point	Fluorescence	Magnetic susceptibility	Ref
Acentric factor	Crystal structure	Formula unit	Melting temperature	Sel
Activity	Density	Fusion temperature	Mixing enthalpy	Sol
Azeotropes	Diamagnetic susceptibility	Heat capacity	Molar mass	Sou
Boiling point	Dielectric constant	Heat of solution	Molecular structure	Sou
Chemical bond	Diffusion	Heat of sublimation	Optical coefficient	Sou
Chemical diffusion	Diffusive flux	Internuclear distance	Phase diagram	Spa
Chemical shift	Electron conductivity	Kinetic properties	Phase equilibrium	Sur
Composition	Excess enthalpy	Latent heat	Phase transition	The
Compressibility	Excess volume	Lineshape	Point group	Tra

SpringerMaterials

4 Spectral Information

4.1 1D NMR Spectra

1 of 2	
1D NMR Spectra	NMR: 1193 (Sadtler Research Laboratories Spectral Collection)

Hazardous Substances Data Bank (HSDB)

2 of 2	
1D NMR Spectra	NMRShiftDB Link

NMRShiftDB

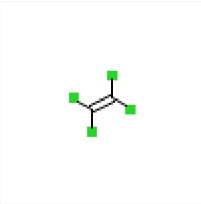
4.1.1 1H NMR Spectra

1 of 3	View All
Spectra ID	2202
Instrument Type	JEOL
Frequency	300 MHz

National Library of Medicine
National Center for Biotechnology Information

COMPOUND SUMMARY

Tetrachloroethylene

PubChem CID	31373
Structure	 2D 3D
Chemical Safety	Health Hazard Environmental Hazard Laboratory Chemical Safety Summary (LCSS) Datasheet
Molecular Formula	C_2Cl_4 $Cl_2C{=}CCl_2$
Synonyms	TETRACHLOROETHYLENE Tetrachloroethene 127-18-4 Perchloroethylene Ethene, tetrachloro- View More...
Molecular Weight	165.8 g/mol *Computed by PubChem 2.2 (PubChem release 2021.10.14)*
Dates	Create: 2004-09-16 Modify: 2024-02-17
Description	Tetrachloroethylene is a manufactured chemical that is widely used for dry cleaning of fabrics and for metal-degreasing. It is also used

to make other chemicals and is used in some consumer products.

- Agency for Toxic Substances and Disease Registry (ATSDR)

Perchloroethylene appears as a clear colorless volatile liquid having an ether-like odor. Noncombustible. Insoluble in water. Vapors heavier than air. Density approximately 13.5 lb / gal. Used as dry cleaning solvent, a degreasing solvent, a drying agent for metals, and in the manufacture of other chemicals.

- CAMEO Chemicals

Tetrachloroethene is a chlorocarbon that is tetrachloro substituted ethene. It has a role as a nephrotoxic agent. It is a chlorocarbon and a member of chloroethenes.

- ChEBI

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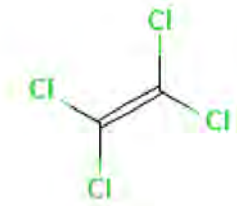
1 Structures

1.1 2D Structure

Chemical Structure Depiction



PubChem

1.2 3D Conformer

PubChem

2 Names and Identifiers

2.1 Computed Descriptors

2.1.1 IUPAC Name

1,1,2,2-tetrachloroethene

Computed by Lexichem TK 2.7.0 (PubChem release 2021.10.14)

PubChem

2.1.2 InChI

InChI=1S/C2Cl4/c3-1(4)2(5)6

Computed by InChI 1.0.6 (PubChem release 2021.10.14)

PubChem

2.1.3 InChIKey

CYTYCFOTNPOANT-UHFFFAOYSA-N

Computed by InChI 1.0.6 (PubChem release 2021.10.14)

- PubChem

2.1.4 Canonical SMILES

C(=C(Cl)Cl)(Cl)Cl

Computed by OEChem 2.3.0 (PubChem release 2021.10.14)

- PubChem

2.2 Molecular Formula

C_2Cl_4

Computed by PubChem 2.2 (PubChem release 2021.10.14)

- CAMEO Chemicals; PubChem

C_2Cl_4

$Cl_2C{=}CCl_2$

- ILO-WHO International Chemical Safety Cards (ICSCs)

2.3 Other Identifiers

2.3.1 CAS

127-18-4

- CAMEO Chemicals; CAS Common Chemistry; ChemIDplus; DTP/NCI; EPA Acute Exposure Guidelin...

2.3.2 Related CAS

25135-99-3

Compound: Ethene, 1,1,2,2-tetrachloro-, homopolymer

- CAS Common Chemistry

2.3.3 European Community (EC) Number

204-825-9

- European Chemicals Agency (ECHA)

2.3.4 UNII

TJ904HH8SN

- FDA Global Substance Registration System (GSRS)

2.3.5 UN Number

1897

- CAMEO Chemicals; ILO-WHO International Chemical Safety Cards (ICSCs); NJDOH RTK Hazardous...

1897 (Perchloroethylene; Tetrachloroethylene)

- Emergency Response Guidebook (ERG)

2.3.6 ChEMBL ID

CHEMBL114062

- ChEMBL

2.3.7 DSSTox Substance ID

DTXSID2021319

- EPA DSSTox

2.3.8 ICSC Number

0076

- ILO-WHO International Chemical Safety Cards (ICSCs)

2.3.9 KEGG ID

C06789

- KEGG

2.3.10 Metabolomics Workbench ID

74849

- Metabolomics Workbench

2.3.11 NCI Thesaurus Code

C44451

- NCI Thesaurus (NCIt)

2.3.12 Nikkaji Number

J3.261A

- Japan Chemical Substance Dictionary (Nikkaji)

2.3.13 NSC Number

9777

- DTP/NCI

2.3.14 RTECS Number

KX3850000

- The National Institute for Occupational Safety and Health (NIOSH)

2.3.15 Wikidata

Q410772

- Wikidata

2.3.16 Wikipedia

Tetrachloroethylene

- Wikipedia

2.4 Synonyms

2.4.1 MeSH Entry Terms

Perchlorethylene
Perchloroethylene
Tetrachlorethylene
Tetrachloroethene
Tetrachloroethylene

- Medical Subject Headings (MeSH)

2.4.2 Depositor-Supplied Synonyms

TETRACHLOROETHYLENE	Carbon dichloride	Tetlen	Czterochloroetylen	Dov
Tetrachloroethene	Ankilostin	Tetrachloraethen	Percosolve	Dila
127-18-4	Didakene	PerSec	Perchlor	Per
Perchloroethylene	Perclene	1,1,2,2-Tetrachloroethene	Perklone	Ant
Ethene, tetrachloro-	Tetracap	Carbon bichloride	Tetravec	Eth
Perc	Tetraguer	PERK	Tetroguer	Per
Perchlorethylene	Tetraleno	Percloroetilene	Nema	Ant
Tetrachlorethylene	Tetralex	Tetracloroetene	Perchloraethylen, per	Rcr
1,1,2,2-Tetrachloroethylene	Tetropil	Fedal-UN	Perchlorethylene, per	Ner
Ethylene tetrachloride	Perawin	Tetrachlooretheen	Perclene D	NC

- PubChem

3 Chemical and Physical Properties

3.1 Computed Properties

Property Name	Property Value	Reference
Molecular Weight	165.8 g/mol	Computed by PubChem 2.2 (PubChem release 2021.10.14)
XLogP3	3.4	Computed by XLogP3 3.0 (PubChem release 2021.10.14)
Hydrogen Bond Donor Count	0	Computed by Cactvs 3.4.8.18 (PubChem release 2021.10.14)
Hydrogen Bond Acceptor Count	0	Computed by Cactvs 3.4.8.18 (PubChem release 2021.10.14)
Rotatable Bond Count	0	Computed by Cactvs 3.4.8.18 (PubChem release 2021.10.14)
Exact Mass	165.872461 g/mol	Computed by PubChem 2.2 (PubChem release 2021.10.14)
Monoisotopic Mass	163.875411 g/mol	Computed by PubChem 2.2 (PubChem release 2021.10.14)
Topological Polar Surface Area	0Å^2	Computed by Cactvs 3.4.8.18 (PubChem release 2021.10.14)
Heavy Atom Count	6	Computed by PubChem
Formal Charge	0	Computed by PubChem
Complexity	55.6	Computed by Cactvs 3.4.8.18 (PubChem release 2021.10.14)
Isotope Atom Count	0	Computed by PubChem
Defined Atom Stereocenter Count	0	Computed by PubChem
Undefined Atom Stereocenter Count	0	Computed by PubChem
Defined Bond Stereocenter Count	0	Computed by PubChem

Undefined Bond Stereocenter Count	0	Computed by PubChem
Covalently-Bonded Unit Count	1	Computed by PubChem
Compound Is Canonicalized	Yes	Computed by PubChem (release 2021.10.14)

- PubChem

3.2 Experimental Properties

3.2.1 Physical Description

Perchloroethylene appears as a clear colorless volatile liquid having an ether-like odor. Noncombustible. Insoluble in water. Vapors heavier than air. Density approximately 13.5 lb / gal. Used as dry cleaning solvent, a degreasing solvent, a drying agent for metals, and in the manufacture of other chemicals.

- CAMEO Chemicals

Liquid

- EPA Chemicals under the TSCA; Human Metabolome Database (HMDB)

Colorless liquid with a mild, chloroform-like odor; [NIOSH]

- Haz-Map, Information on Hazardous Chemicals and Occupational Diseases

COLOURLESS LIQUID WITH CHARACTERISTIC ODOUR.

- ILO-WHO International Chemical Safety Cards (ICSCs)

Colorless liquid with a mild, chloroform-like odor.

- Occupational Safety and Health Administration (OSHA); The National Institute for Occupational S...

3.2.2 Color / Form

Colorless liquid

NIOSH. NIOSH Pocket Guide to Chemical Hazards. Department of Health & Human Services, Centers for Disease Control & Prevention. National Institute for Occupational Safety & Health. DHHS (NIOSH) Publication No. 2010-168 (2010). Available from: ***https://www.cdc.gov/niosh/npg***

- Hazardous Substances Data Bank (HSDB)

3.2.3 Odor

Ether-like odor

Larranaga, M.D., Lewis, R.J. Sr., Lewis, R.A.; Hawley's Condensed Chemical Dictionary 16th Edition. John Wiley & Sons, Inc. Hoboken, NJ 2016., p. 1046

- Hazardous Substances Data Bank (HSDB)

Mild, chloroform-like odor

NIOSH. NIOSH Pocket Guide to Chemical Hazards. Department of Health & Human Services, Centers for Disease Control & Prevention. National Institute for Occupational Safety & Health. DHHS (NIOSH) Publication No. 2010-168 (2010). Available from: ***https://www.cdc.gov/niosh/npg***

- Hazardous Substances Data Bank (HSDB)

Chlorinated solvent odor

Ruth JH; Am Ind Hyg Assoc J 47: A-142-51 (1986)

- Hazardous Substances Data Bank (HSDB)

3.2.4 Boiling Point

250 °F at 760 mmHg (NTP, 1992)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

- CAMEO Chemicals

121.2 °C

Haynes, W.M. (ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 3-496

- Hazardous Substances Data Bank (HSDB)

121 °C

- ILO-WHO International Chemical Safety Cards (ICSCs)

250 °F

- Occupational Safety and Health Administration (OSHA); The National Institute for Occupational S...

3.2.5 Melting Point

-2 °F (NTP, 1992)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

- CAMEO Chemicals

-22.2 °C

Haynes, W.M. (ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 3-496

- Hazardous Substances Data Bank (HSDB)

-22.3 °C

- Human Metabolome Database (HMDB)

-22 °C

- ILO-WHO International Chemical Safety Cards (ICSCs)

-2 °F

- Occupational Safety and Health Administration (OSHA); The National Institute for Occupational S...

3.2.6 Flash Point

No flash point in conventional closed tester.

National Fire Protection Association; Fire Protection Guide to Hazardous Materials. 14TH Edition, Quincy, MA 2010, p. 49-141-2

- Hazardous Substances Data Bank (HSDB)

3.2.7 Solubility

less than 0.1 mg/mL at 63 °F (NTP, 1992)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

- **CAMEO Chemicals**

In water, 206 mg/L at 25 °C

Horvath AL; Halogenated hydrocarbons: solubility-miscibility with water. New York, NY: Marcel Dekker, Inc pp. 889 (1982)

- **Hazardous Substances Data Bank (HSDB)**

Insoluble in water

Haynes, W.M. (ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 3-496

- **Hazardous Substances Data Bank (HSDB)**

Miscible with alcohol, ether, chloroform, benzene

O'Neil, M.J. (ed.). The Merck Index - An Encyclopedia of Chemicals, Drugs, and Biologicals. Cambridge, UK: Royal Society of Chemistry, 2013., p. 1704

- **Hazardous Substances Data Bank (HSDB)**

Miscible with ethanol, ethyl ether, benzene

Haynes, W.M. (ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 3-496

- **Hazardous Substances Data Bank (HSDB)**

Miscible with solvent hexane; dissolves in most of the fixed and volatile oils

Osol, A. (ed.). Remington's Pharmaceutical Sciences. 16th ed. Easton, Pennsylvania: Mack Publishing Co., 1980., p. 1184

- **Hazardous Substances Data Bank (HSDB)**

0.206 mg/mL at 25 °C

- **Human Metabolome Database (HMDB)**

Solubility in water, g/100ml at 20 °C: 0.015

- **ILO-WHO International Chemical Safety Cards (ICSCs)**

0.02%

- The National Institute for Occupational Safety and Health (NIOSH)

3.2.8 Density

1.63 at 68 °F (USCG, 1999) - Denser than water; will sink

U.S. Coast Guard. 1999. Chemical Hazard Response Information System (CHRIS) - Hazardous Chemical Data. Commandant Instruction 16465.12C. Washington, D.C.: U.S. Government Printing Office.

- CAMEO Chemicals

1.6230 g/cu cm at 20 °C

Haynes, W.M. (ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 3-496

- Hazardous Substances Data Bank (HSDB)

Density (at 20 °C): 1.62 g/cm^3

- ILO-WHO International Chemical Safety Cards (ICSCs)

Relative density of the vapour/air-mixture at 20 °C (air = 1): 1.09

- ILO-WHO International Chemical Safety Cards (ICSCs)

1.62

- Occupational Safety and Health Administration (OSHA); The National Institute for Occupational S...

3.2.9 Vapor Density

5.83 (NTP, 1992) - Heavier than air; will sink (Relative to Air)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

- CAMEO Chemicals

5.83 (Air = 1)

Lewis, R.J. Sr. (ed) Sax's Dangerous Properties of Industrial Materials. 12th Edition. Wiley-Interscience, Wiley & Sons, Inc. Hoboken, NJ. 2012., p. V5: 3520

- Hazardous Substances Data Bank (HSDB)

Relative vapor density (air = 1): 5.7

- ILO-WHO International Chemical Safety Cards (ICSCs)

5.83

- Occupational Safety and Health Administration (OSHA)

3.2.10 Vapor Pressure

14 mmHg at 68 °F ; 15.8 mmHg at 72 °F (NTP, 1992)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

- CAMEO Chemicals

18.5 [mmHg]

- Haz-Map, Information on Hazardous Chemicals and Occupational Diseases

18.5 mm Hg at 25 °C

Riddick, J.A., W.B. Bunger, Sakano T.K. Techniques of Chemistry 4th ed., Volume II. Organic Solvents. New York, NY: John Wiley and Sons., 1985., p. 522

- Hazardous Substances Data Bank (HSDB)

Vapor pressure, kPa at 20 °C: 1.9

- ILO-WHO International Chemical Safety Cards (ICSCs)

14 mmHg

- Occupational Safety and Health Administration (OSHA); The National Institute for Occupational S...

3.2.11 LogP

log Kow = 3.40

Hansch, C., Leo, A., D. Hoekman. Exploring QSAR - Hydrophobic, Electronic, and Steric Constants. Washington, DC: American Chemical Society., 1995., p. 3

- Hazardous Substances Data Bank (HSDB)

3.40

- Human Metabolome Database (HMDB)

3.4

- ILO-WHO International Chemical Safety Cards (ICSCs)

3.2.12 Henry's Law Constant

Henry's Law constant = 0.0177 atm-cu m/mole at 25 °C

Gossett JM; Environ Sci Technol 21: 202-6 (1987)

- Hazardous Substances Data Bank (HSDB)

3.2.13 Stability / Shelf Life

Stable under recommended storage conditions.

Sigma-Aldrich; Safety Data Sheet for Tetrachloroethylene. Product Number: 371696, Version 4.11 (Revision Date 06/28/2017). Available from, as of March 5, 2018: ***https://www.sigmaaldrich.com/safety-center.html***

- Hazardous Substances Data Bank (HSDB)

It may be handled in the presence or absence of air, water, and light with any of the common construction materials at temperatures up to 140 °C. This material is extremely stable and resists hydrolysis.

Lewis, R.J. Sr. (ed) Sax's Dangerous Properties of Industrial Materials. 11th Edition. Wiley-Interscience, Wiley & Sons, Inc. Hoboken, NJ. 2004., p. 2858

- Hazardous Substances Data Bank (HSDB)

Tetrachloroethylene is stable up to 500 °C in the absence of catalysts, moisture, and oxygen.

WHO; Environmental Health Criteria Document No. 31: Tetrachloroethylene (127-18-4) (1984). Available from, as of March 21, 2018: ***https://www.inchem.org/pages/ehc.html***

- Hazardous Substances Data Bank (HSDB)

3.2.14 Autoignition Temperature

Not flammable (USCG, 1999)

U.S. Coast Guard. 1999. Chemical Hazard Response Information System (CHRIS) - Hazardous Chemical Data. Commandant Instruction 16465.12C. Washington, D.C.: U.S. Government Printing Office.

- **CAMEO Chemicals**

Fully encapsulating, vapor-protective clothing should be worn for spills and leaks with no fire. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if you can do it without risk. Use **water** spray to reduce vapors; do not put **water** directly on leak, spill area or inside container. Keep combustibles (wood, paper, oil, etc.) away from spilled material. SMALL SPILL: Cover with DRY earth, DRY sand or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain. Use clean, non-sparking tools to collect material and place it into loosely covered plastic containers for later disposal. Prevent entry into waterways, sewers, basements or confined areas.

CAMEO Chemicals; Office of Response and Restoration, National Oceanic and Atmospheric Administration. Thionyl Chloride (7719-09-7). Available from, as of August 15, 2018: ***https://cameochemicals.noaa.gov***

- **Hazardous Substances Data Bank (HSDB)**

> 650 °C

- **ILO-WHO International Chemical Safety Cards (ICSCs)**

3.2.15 Decomposition

Hazardous decomposition products formed under fire conditions - Carbon oxides, **hydrogen chloride** gas.

Sigma-Aldrich; Safety Data Sheet for Tetrachloroethylene. Product Number: 371696, Version 4.11 (Revision Date 06/28/2017). Available from, as of March 5, 2018: ***https://www.sigmaaldrich.com/safety-center.html***

- **Hazardous Substances Data Bank (HSDB)**

Decomposes on contact with hot surfaces or flames. This produces toxic and corrosive fumes of **hydrogen chloride**, **phosgene** and **chlorine**. Decomposes slowly on contact with moisture. This produces **trichloroacetic acid** and **hydrochloric acid**.

International Program on Chemical Safety/European Commission; International Chemical Safety Card (ICSC) on Tetrachloroethylene (127-18-4), ICSC No. 0076 (April 2013). Available from as of March 21, 2018: ***https://www.inchem.org/pages/icsc.html***

- **Hazardous Substances Data Bank (HSDB)**

When in contact with activated **charcoal** decomposes to form **hexachloroethane** and **hexachlorobenzene** at 700 °C.

Gonikberg MG et al; Bul Acad Sci USSR Dir Chem Sci p.739 (1956)

- **Hazardous Substances Data Bank (HSDB)**

Slowly decomposes on contact with moisture producing **trichloroacetic acid** and **hydrochloric acid**. Decomposes in UV light and in temperatures above 150 °C forming **hydrochloric acid** and **phosgene**.

Pohanish, R.P. (ed). Sittig's Handbook of Toxic and Hazardous Chemical Carcinogens 6th Edition Volume 1: A-K,Volume 2: L-Z. William Andrew, Waltham, MA 2012, p. 2520

- **Hazardous Substances Data Bank (HSDB)**

When heated to decomposition it emits highly toxic fumes of /**chloride**/.

Lewis, R.J. Sr. (ed) Sax's Dangerous Properties of Industrial Materials. 11th Edition. Wiley-Interscience, Wiley & Sons, Inc. Hoboken, NJ. 2004., p. 2858

- **Hazardous Substances Data Bank (HSDB)**

3.2.16 Viscosity

Liquid (cP): 0.932 at 15 °C; 0.839 at 25 °C; 0.657 at 50 °C; 0.534 at 75 °C. Vapor: 9900 cP at 60 °C

Snedecor G et al; Chloroethylenes. Kirk-Othmer Encyclopedia of Chemical Technology. (1999-2018). New York, NY: John Wiley & Sons. Online Posting Date: 16 Jan 2004

- **Hazardous Substances Data Bank (HSDB)**

3.2.17 Corrosivity

Corrosion of **aluminum**, **iron**, and **zinc**, which is negligible unless **water** is present, can be inhibited by the addition of stabilizers

Snedecor G et al; Chloroethylenes. Kirk-Othmer Encyclopedia of Chemical Technology. (1999-2018). New York, NY: John Wiley & Sons. Online Posting Date: 16 Jan 2004

- **Hazardous Substances Data Bank (HSDB)**

3.2.18 Heat of Combustion

679.9 kJ/mol (constant pressure with formation of aq **hydrochloric acid**; 831.8 kJ/mol (constant volume at 18.7 °C) (to convert J to cal, divide by 4.184)

Snedecor G et al; Chloroethylenes. Kirk-Othmer Encyclopedia of Chemical Technology. (1999-2018). New York, NY: John Wiley & Sons. Online Posting Date: 16 Jan 2004

- Hazardous Substances Data Bank (HSDB)

3.2.19 Heat of Vaporization

90.2 BTU/lb = 50.1 cal/g = 2.10X10+5 J/kg

NOAA; CAMEO Chemicals. Database of Hazardous Materials. Tetrachloroethylene (127-18-4). Natl Ocean Atmos Admin, Off Resp Rest; NOAA Ocean Serv. Available from, as of Mar 21, 2018: ***https://cameochemicals.noaa.gov/***

- Hazardous Substances Data Bank (HSDB)

3.2.20 Surface Tension

31.74 dynes/cm at 20 °C in contact with vapor

Weast, R.C. (ed.) Handbook of Chemistry and Physics, 68th ed. Boca Raton, Florida: CRC Press Inc., 1987-1988., p. F-37

- Hazardous Substances Data Bank (HSDB)

3.2.21 Ionization Potential

9.32 eV

- Occupational Safety and Health Administration (OSHA); The National Institute for Occupational S...

3.2.22 Odor Threshold

Odor Threshold Low: 2.0 [mmHg]

Odor Threshold High: 71.0 [mmHg]

Detection odor threshold from AIHA (mean = 47 ppm)

Odor threshold = 1 ppm

- Haz-Map, Information on Hazardous Chemicals and Occupational Diseases

The distinctive odor of tetrachloroethylene does not necessarily provide adequate warning. Because tetrachloroethylene quickly desensitizes olfactory responses, persons can suffer exposure to vapor concentrations in excess of TLV limits without smelling it.

Kirk-Othmer Encyclopedia of Chemical Technology. 3rd ed., Volumes 1-26. New York, NY: John Wiley and Sons, 1978-1984., p. 5(79) 761

- Hazardous Substances Data Bank (HSDB)

Recognition in air: 4.68 ppm (chemically pure)

Fazzalari, F.A. (ed.). Compilation of Odor and Taste Threshold Values Data. ASTM Data Series DS 48A (Committee E-18). Philadelphia, PA: American Society for Testing and Materials, 1978., p. 155

- Hazardous Substances Data Bank (HSDB)

The odor threshold for tetrachloroethylene has been established as 32 mg/ cu m.

WHO; Environmental Health Criteria Document No. 31: Tetrachloroethylene (127-18-4) (1984). Available from, as of March 21, 2018: ***https://www.inchem.org/pages/ehc.html***

- Hazardous Substances Data Bank (HSDB)

3.2.23 Refractive Index

Index of refraction: 1.5053 at 20 °C/D

Haynes, W.M. (ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 3-496

- Hazardous Substances Data Bank (HSDB)

3.2.24 Relative Evaporation Rate

Evaporation rate slower than that for trichloroethylene, about 3-1.

Browning, E. Toxicity and Metabolism of Industrial Solvents. New York: American Elsevier, 1965., p. 213

- Hazardous Substances Data Bank (HSDB)

3.2.25 Kovats Retention Index

Standard non-polar	794.8, 796, 801, 803, 799, 801, 804, 809, 814, 825, 814, 807.3, 801, 797, 794.51, 794, 803, 807, 804.7, 796.52, 803, 811, 793, 793, 794, 797, 811, 785, 800, 801.8, 800.3, 789, 797, 789, 796
Semi-standard non-polar	815.45, 817.1, 815.9, 809.3, 804, 804, 815, 825.59, 832.3, 806, 806, 814, 808, 815, 814, 806, 806, 819, 817.1, 823, 802, 808, 807.5, 816
Standard polar	1021, 1026, 1024, 1044, 1038, 1022, 1022, 1036.2, 1050.23, 1059.96, 1030, 1038.5, 1045, 1012, 1012, 1018

- NIST Mass Spectrometry Data Center

3.2.26 Other Experimental Properties

Liquid-water interfacial tension: 44.4 dynes/cm = 0.0444 N/m at 25 °C

NOAA; CAMEO Chemicals. Database of Hazardous Materials. Tetrachloroethylene (127-18-4). Natl Ocean Atmos Admin, Off Resp Rest; NOAA Ocean Serv. Available from, as of Mar 21, 2018: https://cameochemicals.noaa.gov/

- Hazardous Substances Data Bank (HSDB)

Conversion factors: 1 mg/L equals 147.4 ppm and 1 ppm equals 6.78 mg/cu m at 25 °C, 760 mm Hg

Clayton, G.D., F.E. Clayton (eds.) Patty's Industrial Hygiene and Toxicology. Volumes 2A, 2B, 2C, 2D, 2E, 2F: Toxicology. 4th ed. New York, NY: John Wiley & Sons Inc., 1993-1994., p. 4208

- Hazardous Substances Data Bank (HSDB)

Partition coefficients at 37 °C for tetrachloroethylene into blood = 13.1; into oil = 1,920

PMID:3299685

Sato A, Nakajima T; Scand J Work Environ Health 13: 81-93 (1987)

- Hazardous Substances Data Bank (HSDB)

Saturation concentration in air: 126 g/cu m at 20 °C, 210 g/cu m at 30 °C

Verschueren, K. Handbook of Environmental Data on Organic Chemicals. Volumes 1-2. 4th ed. John Wiley & Sons. New York, NY. 2001, p. V2: 1949

- Hazardous Substances Data Bank (HSDB)

For more Other Experimental Properties (Complete) data for Tetrachloroethylene (6 total), please visit the HSDB record page.

- Hazardous Substances Data Bank (HSDB)

3.2.27 Chemical Classes

Solvents -> Chlorinated Aliphatics

- Haz-Map, Information on Hazardous Chemicals and Occupational Diseases

3.3 SpringerMaterials Properties

Moessbauer quadrupole effect	Diamagnetic susceptibility	Internuclear distance
Schoenflies notation	Dielectric constant	Luminescence
Acentric factor	Diffusion	Luminescence emission linewidth
Angular frequency	Diffusive flux	Magnetic susceptibility
Boiling point	Excess enthalpy	Melting temperature
Chemical bond	External quantum efficiency	Mixing enthalpy
Chemical diffusion	Fusion temperature	Molar mass
Composition	Heat capacity	Molecular structure
Critical point	Heat of solution	Nuclear quadrupole resonance spectrosc
Density	Heat of sublimation	Optical coefficient

SpringerMaterials

4 Spectral Information

4.1 1D NMR Spectra

1D NMR Spectra	NMRShiftDB Link

NMRShiftDB

4.1.1 13C NMR Spectra

1 of 4 View All

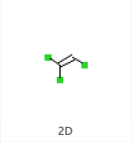
Spectra ID	2906
Instrument Type	Varian
Frequency	25.16 MHz
Solvent	CDCl3
Shifts [ppm]:Intensity	120.38:1000.00

COVID-19 Information
Public health information (CDC) Research information (NIH) SARS-CoV-2 data (NCBI) Prevention and treatment information (HHS) Español

PubChem

COMPOUND SUMMARY

Trichloroethylene

PubChem CID	6575
Structure	 2D 3D Find Similar Structures
Chemical Safety	Irritant Health Hazard Laboratory Chemical Safety Summary (LCSS) Datasheet
Molecular Formula	C_2HCl_3 or $ClCH{=}CCl_2$
Synonyms	TRICHLOROETHYLENE Trichloroethene 79-01-6 1,1,2-Trichloroethene Ethene, trichloro- More...
Molecular Weight	131.38
Dates	Modify 2022-01-29 Create 2004-09-16

Trichloroethylene is a synthetic, light sensitive, volatile, colorless, liquid that is miscible with many non-polar organic solvents. Trichloroethylene is used mainly as a degreaser for metal parts. Upon combustion, it produces irritants and toxic gases. Occupational exposure to trichloroethylene is associated with excess incidences of liver cancer, kidney cancer and non-Hodgkin lymphoma. It is reasonably anticipated to be a human carcinogen. (NCI05)

- NCI Thesaurus (NCIt)

Trichloroethylene appears as a clear colorless volatile liquid having a chloroform-like odor. Denser than water and is slightly soluble in water. Noncombustible. Used as a solvent, fumigant, in the manufacture of other chemicals, and for many other uses.

- CAMEO Chemicals

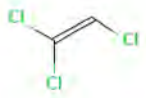
Trichloroethylene (TCE) is a nonflammable, colorless liquid with a somewhat sweet odor and a sweet, burning taste. It is used mainly as a solvent to remove grease from metal parts, but it is also an ingredient in adhesives, paint removers, typewriter correction fluids, and spot removers.Trichloroethylene is not thought to occur naturally in the environment. However, it has been found in underground water sources and many surface waters as a result of the manufacture, use, and disposal of the chemical.

- CDC-ATSDR Toxic Substances Portal

1 Structures

1.1 2D Structure

Chemical Structure Depiction



PubChem

1.2 3D Conformer

PubChem

2 Names and Identifiers

2.1 Computed Descriptors

2.1.1 IUPAC Name

1,1,2-trichloroethene

Computed by Lexichem TK 2.7.0 (PubChem release 2021.05.07)

- PubChem

2.1.2 InChI

InChI=1S/C2HCl3/c3-1-2(4)5/h1H

Computed by InChI 1.0.6 (PubChem release 2021.05.07)

- PubChem

2.1.3 InChI Key

XSTXAVWGXDQKEL-UHFFFAOYSA-N

Computed by InChI 1.0.6 (PubChem release 2021.05.07)

- PubChem

2.1.4 Canonical SMILES

C(=C(Cl)Cl)Cl

Computed by OEChem 2.3.0 (PubChem release 2021.05.07)

- PubChem

2.2 Molecular Formula

C2HCl3

- CAMEO Chemicals; PubChem

C2HCl3

ClCH=CCl2

- ILO International Chemical Safety Cards (ICSC)

2.3 Other Identifiers

2.3.1 CAS

79-01-6

- CAMEO Chemicals; CAS Common Chemistry; ChemIDplus; DrugBank; EPA Acute Exposure Guideline Levels (AEGLs); EPA Chemicals under the TSCA; EPA DSSTox; European Chemicals Agency (ECHA); Hazardous Substances Data Ban

2.3.2 Related CAS

27275-39-4

Compound: Ethene, 1,1,2-trichloro-, homopolymer

- CAS Common Chemistry

2.3.3 Deprecated CAS

52037-46-4

- ChemIDplus

2.3.4 European Community (EC) Number

201-167-4

- European Chemicals Agency (ECHA)

2.3.5 ICSC Number

0081

- ILO International Chemical Safety Cards (ICSC)

2.3.6 RTECS Number

KX4550000

- The National Institute for Occupational Safety and Health (NIOSH)

2.3.7 UN Number

1710

- CAMEO Chemicals; DOT Emergency Response Guidebook; ILO International Chemical Safety Cards (ICSC); NJDOH RTK Hazardous Substance List; The National Institute for Occupational Safety and Health (NIOSH)

2.3.8 UNII

290YE8AR51

- FDA/SPL Indexing Data

2.3.9 DSSTox Substance ID

DTXSID0021383

- EPA DSSTox

2.3.10 Wikipedia

Trichloroethylene

- Wikipedia

2.3.11 NCI Thesaurus Code

C44459

- NCI Thesaurus (NCIt)

2.4 Synonyms

2.4.1 MeSH Entry Terms

Ethinyl Trichloride
Trichloride, Ethinyl
Trichloroethene
Trichloroethylene
Trielina
Trilene

- Medical Subject Headings (MeSH)

2.4.2 Depositor-Supplied Synonyms

TRICHLOROETHYLENE	Chlorilen	Trichloren	Petzinol	Trimar	Trichlooretheen	Ethylene, trichloro-	Perm-A-clor	trichloraethylenum pro narcosi
Trichloroethene	Trethylene	Algylen	Triasol	Vitran	Tricloretene	Gemalgene	Rcra waste number U228	Trichloroethylene (without epichlorohy
79-01-6	Trielina	Anamenth	Trielene	Fleck-flip	Tricloroetilene	Narkogen	Trichloroethylene (IUPAC)	CHEBI:16602
1,1,2-Trichloroethene	triciene	Benzinol	Trielin	Flock flip	Trichlorethylenum	Trichloraethylen, tri	trichlor	290YE8AR51
Ethene, trichloro-	Blancosolv	Blacosolv	Trieline	Tri-plus	trichloroethylenum	Trichlorethylene, tri	Trichlorethene	NCGC00091202-01
Ethylene trichloride	Crawhaspol	Cecolene	Vestrol	Triklone N	Trichloraethylenum	Triklone	Trichloraethylen	DSSTox_CID_1382
Ethinyl trichloride	Densinfluat	Chlorylen	Westrosol	Dow-tri	TCE	Triline	NCI-C04546	DSSTox_RID_76125
Acetylene trichloride	Germalgene	Circosolv	Fluate	Tri-Clene	Ethene, 1,1,2-trichloro-	Trichloorethyleen, tri	Distillex DS2	DSSTox_GSID_21383
Narcogen	Threthylen	Dukeron	Nialk	Perm-A-chlor	1,2,2-Trichloroethylene	Trilene TE-141	R 1120	123919-09-5
Trilene	Threthylene	Lanadin	Philex	1,1-Dichloro-2-chloroethylene	Tricloroetileno	Tricloroetilene [DCIT]	UNII-290YE8AR51	Trielina [Italian]
Trichlorethylene	Trichloraethen	Lethurin	Trial	1-Chloro-2,2-dichloroethylene	Chlorylea	TCE (chlorohydrocarbon)	UN 1710	Caswell No. 876
1,1,2-Trichloroethylene	Trichloran	Narkosoid	Trilen	Tri-plus M	Chorylen	C2HCl3	TRI	Trichlorathane

- PubChem

3 Chemical and Physical Properties

3.1 Computed Properties

Property Name	Property Value	Reference
Molecular Weight	131.38	Computed by PubChem 2.1 (PubChem release 2021.05.07)
XLogP3	2.6	Computed by XLogP3 3.0 (PubChem release 2021.05.07)
Hydrogen Bond Donor Count	0	Computed by Cactvs 3.4.8.18 (PubChem release 2021.05.07)
Hydrogen Bond Acceptor Count	0	Computed by Cactvs 3.4.8.18 (PubChem release 2021.05.07)
Rotatable Bond Count	0	Computed by Cactvs 3.4.8.18 (PubChem release 2021.05.07)
Exact Mass	129.914383	Computed by PubChem 2.1 (PubChem release 2021.05.07)
Monoisotopic Mass	129.914383	Computed by PubChem 2.1 (PubChem release 2021.05.07)
Topological Polar Surface Area	0 $Å^2$	Computed by Cactvs 3.4.8.18 (PubChem release 2021.05.07)
Heavy Atom Count	5	Computed by PubChem
Formal Charge	0	Computed by PubChem
Complexity	42.9	Computed by Cactvs 3.4.8.18 (PubChem release 2021.05.07)
Isotope Atom Count	0	Computed by PubChem
Defined Atom Stereocenter Count	0	Computed by PubChem
Undefined Atom Stereocenter Count	0	Computed by PubChem
Defined Bond Stereocenter Count	0	Computed by PubChem
Undefined Bond Stereocenter Count	0	Computed by PubChem
Covalently-Bonded Unit Count	1	Computed by PubChem
Compound Is Canonicalized	Yes	Computed by PubChem (release 2021.05.07)

PubChem

3.2 Experimental Properties

3.2.1 Physical Description

Trichloroethylene appears as a clear colorless volatile liquid having a chloroform-like odor. Denser than water and is slightly soluble in water. Noncombustible. Used as a solvent, fumigant, in the manufacture of other chemicals, and for many other uses.

CAMEO Chemicals

Liquid

EPA Chemicals under the TSCA; Human Metabolome Database (HMDB)

COLOURLESS LIQUID WITH CHARACTERISTIC ODOUR.

ILO International Chemical Safety Cards (ICSC)

Colorless liquid (unless dyed blue) with a chloroform-like odor.

Occupational Safety and Health Administration (OSHA); The National Institute for Occupational Safety and Health (NIOSH)

3.2.2 Color/Form

Colorless liquid (unless dyed blue)

NIOSH. NIOSH Pocket Guide to Chemical Hazards. Department of Health & Human Services, Centers for Disease Control & Prevention. National Institute for Occupational Safety & Health. DHHS (NIOSH) Publication No. 2010-168 (2010). Available from: https://www.cdc.gov/niosh/npg

Hazardous Substances Data Bank (HSDB)

Stable, low-boiling, colorless, photoreactive liquid

Larranaga, M.D., Lewis, R.J. Sr., Lewis, R.A.; Hawley's Condensed Chemical Dictionary 16th Edition. John Wiley & Sons, Inc. Hoboken, NJ 2016., p. 1365

Hazardous Substances Data Bank (HSDB)

3.2.3 Odor

Ethereal odor

Verschueren, K. Handbook of Environmental Data on Organic Chemicals. Volumes 1-2. 4th ed. John Wiley & Sons. New York, NY. 2001, p. V2: 2066

Hazardous Substances Data Bank (HSDB)

Sweet odor

ATSDR; Draft Toxicological Profile for Trichloroethylene. Atlanta, GA: Agency for Toxic Substances and Disease Registry, US Public Health Service (2014). Available from, as of Dec 12, 2016: https://www.atsdr.cdc.gov/toxprofiles/index.asp

Hazardous Substances Data Bank (HSDB)

Characteristic odor resembling that of chloroform

O'Neil, M.J. (ed.). The Merck Index - An Encyclopedia of Chemicals, Drugs, and Biologicals. Cambridge, UK: Royal Society of Chemistry, 2013., p. 1786

Hazardous Substances Data Bank (HSDB)

3.2.4 Taste

Sweet burning taste

ATSDR; Draft Toxicological Profile for Trichloroethylene. Atlanta, GA: Agency for Toxic Substances and Disease Registry, US Public Health Service (2014). Available from, as of Dec 12, 2016: https://www.atsdr.cdc.gov/toxprofiles/index.asp

- **Hazardous Substances Data Bank (HSDB)**

3.2.5 Boiling Point

189 °F at 760 mm Hg (NTP, 1992)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

- **CAMEO Chemicals**

87.2 °C

- **EPA DSSTox; Hazardous Substances Data Bank (HSDB)**

Dielectric constant at 16 °C: 3.42; coefficient of cubic expansion: 0.00119 (at 0-40 °C); heat of formation: -42.3 kJ/mol (liquid), -7.78 kJ/mol (vapor); latent heat of vaporization: 238 kJ/kg (at boiling point)

Snedecor G et al; Chloroethylenes and Chloroethanes. Kirk-Othmer Encyclopedia of Chemical Technology. (1999-2016). New York, NY: John Wiley & Sons. Online Posting Date: Jan 16, 2004.

- **Hazardous Substances Data Bank (HSDB)**

87 °C

- **ILO International Chemical Safety Cards (ICSC)**

189°F

- **Occupational Safety and Health Administration (OSHA); The National Institute for Occupational Safety and Health (NIOSH)**

3.2.6 Melting Point

-99 °F (NTP, 1992)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

- **CAMEO Chemicals**

-84.7 °C

- **EPA DSSTox; Hazardous Substances Data Bank (HSDB)**

-84.8°C

- **Human Metabolome Database (HMDB)**

-86 °C

- **ILO International Chemical Safety Cards (ICSC)**

-99°F

- **Occupational Safety and Health Administration (OSHA); The National Institute for Occupational Safety and Health (NIOSH)**

3.2.7 Flash Point

greater than 200 °F (NTP, 1992)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

- **CAMEO Chemicals**

>200°F

- **Occupational Safety and Health Administration (OSHA)**

3.2.8 Solubility

less than 1 mg/mL at 70° F (NTP, 1992)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

- **CAMEO Chemicals**

0.01 M

HORVATH,AL ET AL. (1999)

- **EPA DSSTox**

In water, range of 999-1,472 mg/L at 25 °C (average of 1,118 mg/L) /7 measured values/

Yalkowsky, S.H., He, Yan, Jain, P. Handbook of Aqueous Solubility Data Second Edition. CRC Press, Boca Raton, FL 2010, p. 19

- **Hazardous Substances Data Bank (HSDB)**

In water, 1,280 mg/L at 25 °C

Horvath AL et al; J Phys Chem Ref Data 28: 449 (1999)

Hazardous Substances Data Bank (HSDB)

Miscible with ethanol, ethyl ether; soluble in acetone, carbon tetrachloride, chloroform

Lide, D.R., G.W.A. Milne (eds.). Handbook of Data on Organic Compounds. Volume I. 3rd ed. CRC Press, Inc. Boca Raton ,FL. 1994., p. V3: 2733

Hazardous Substances Data Bank (HSDB)

Dissolves most fixed and volatile oils

O'Neil, M.J. (ed.). The Merck Index - An Encyclopedia of Chemicals, Drugs, and Biologicals. Cambridge, UK: Royal Society of Chemistry, 2013., p. 1786

Hazardous Substances Data Bank (HSDB)

1.28 mg/mL at 25 °C

Human Metabolome Database (HMDB)

Solubility in water, g/100ml at 20 °C: 0.1

ILO International Chemical Safety Cards (ICSC)

0.1%

The National Institute for Occupational Safety and Health (NIOSH)

3.2.9 Density

1.46 at 68 °F (USCG, 1999)

U.S. Coast Guard. 1999. Chemical Hazard Response Information System (CHRIS) - Hazardous Chemical Data. Commandant Instruction 16465.12C. Washington, D.C.: U.S. Government Printing Office.

CAMEO Chemicals

1.4642 at 20 °C/4 °C

O'Neil, M.J. (ed.). The Merck Index - An Encyclopedia of Chemicals, Drugs, and Biologicals. Cambridge, UK: Royal Society of Chemistry, 2013., p. 1786

Hazardous Substances Data Bank (HSDB)

Liquid heat capacity: 0.231 Btu/lb-F; saturated vapor pressure: 1.166 lb/sq in; saturated vapor density: 0.02695 lb/cu ft (all at 70 °F)

U.S. Coast Guard, Department of Transportation. CHRIS - Hazardous Chemical Data. Volume II. Washington, D.C.: U.S. Government Printing Office, 1984-5.

Hazardous Substances Data Bank (HSDB)

Saturated liquid density: 90.770 lb/cu ft; ideal gas heat capacity: 0.146 Btu/lb-F (All at 75 °F)

U.S. Coast Guard, Department of Transportation. CHRIS - Hazardous Chemical Data. Volume II. Washington, D.C.: U.S. Government Printing Office, 1984-5.

Hazardous Substances Data Bank (HSDB)

Relative density (water = 1): 1.5 (20 °C)

ILO International Chemical Safety Cards (ICSC)

1.46

Occupational Safety and Health Administration (OSHA); The National Institute for Occupational Safety and Health (NIOSH)

3.2.10 Vapor Density

4.53 (NTP, 1992) (Relative to Air)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

CAMEO Chemicals

4.53 (Air = 1)

O'Neil, M.J. (ed.). The Merck Index - An Encyclopedia of Chemicals, Drugs, and Biologicals. Cambridge, UK: Royal Society of Chemistry, 2013., p. 1786

Hazardous Substances Data Bank (HSDB)

Relative vapor density (air = 1): 4.5

ILO International Chemical Safety Cards (ICSC)

4.53

Occupational Safety and Health Administration (OSHA)

3.2.11 Vapor Pressure

60 mm Hg at 68 °F ; 77 mm Hg at 77° F (NTP, 1992)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

CAMEO Chemicals

68.99 mmHg

EPA DSSTox

69 mm Hg at 25 °C

Boublik, T., Fried, V., and Hala, E., The Vapour Pressures of Pure Substances. Second Revised Edition. Amsterdam: Elsevier, 1984., p. 87

- Hazardous Substances Data Bank (HSDB)

Vapor pressure, kPa at 20 °C: 7.8

- ILO International Chemical Safety Cards (ICSC)

58 mmHg

- Occupational Safety and Health Administration (OSHA); The National Institute for Occupational Safety and Health (NIOSH)

3.2.12 LogP

2.42 (LogP)

HANSCH,C ET AL. (1995)

- EPA DSSTox

log Kow = 2.61

Hansch, C., Leo, A., D. Hoekman. Exploring QSAR - Hydrophobic, Electronic, and Steric Constants. Washington, DC: American Chemical Society., 1995., p. 4

- Hazardous Substances Data Bank (HSDB)

2.42

- Human Metabolome Database (HMDB); ILO International Chemical Safety Cards (ICSC)

3.2.13 LogKoa

2.99 (Octanol-Air partition coefficient)

- EPA DSSTox

3.2.14 Henrys Law Constant

0.01 atm-m3/mole

- EPA DSSTox

Henry's Law constant = 9.02X10-3 atm-cu m/mol at 25 °C

Warneck P; Chemosphere 69: 347-361 (2007)

- Hazardous Substances Data Bank (HSDB)

3.2.15 Atmospheric OH Rate Constant

2.36e-12 cm3/molecule*sec

ATKINSON,R (1989)

- EPA DSSTox

3.2.16 Stability/Shelf Life

Stable under recommended storage conditions.

Sigma-Aldrich; Safety Data Sheet for Trichloroethylene. Product Number: 46267, Version 4.10 (Revision Date 09/23/2016). Available from, as of November 28, 2016: https://www.sigmaaldrich.com/safety-center.html

- Hazardous Substances Data Bank (HSDB)

Slowly dec (with formn of /hydrochloric acid/) by light in the presence of moisture.

O'Neil, M.J. (ed.). The Merck Index - An Encyclopedia of Chemicals, Drugs, and Biologicals. Cambridge, UK: Royal Society of Chemistry, 2013., p. 1786

- Hazardous Substances Data Bank (HSDB)

Slowly decomposed by light in the presence of moisture, with formulation of hydrochloric acid.

Pohanish, R.P. (ed). Sittig's Handbook of Toxic and Hazardous Chemical Carcinogens 6th Edition Volume 1: A-K,Volume 2: L-Z. William Andrew, Waltham, MA 2012, p. 2619

- Hazardous Substances Data Bank (HSDB)

3.2.17 Autoignition Temperature

770 °F (USCG, 1999)

U.S. Coast Guard. 1999. Chemical Hazard Response Information System (CHRIS) - Hazardous Chemical Data. Commandant Instruction 16465.12C. Washington, D.C.: U.S. Government Printing Office.

- CAMEO Chemicals

420 °C (788 °F)

National Fire Protection Association; Fire Protection Guide to Hazardous Materials. 14TH Edition, Quincy, MA 2010, p. 325-109

- Hazardous Substances Data Bank (HSDB)

410 °C

- ILO International Chemical Safety Cards (ICSC)

3.2.18 Decomposition

Hazardous decomposition products formed under fire conditions - Carbon oxides, hydrogen chloride gas.

Sigma-Aldrich; Safety Data Sheet for Trichloroethylene. Product Number: 46267, Version 4.10 (Revision Date 09/23/2016). Available from, as of November 28, 2016: https://www.sigmaaldrich.com/safety-center.html

- Hazardous Substances Data Bank (HSDB)

... Dichloroacetylene /is/ a trichloroethylene combustion product formed under conditions of high alkalinity or temperature during volatilization of trichloroethylene ... .

DHHS/ATSDR; Draft Toxicological Profile for Trichloroethylene pp.70 (2014) Toxicological Profile 19. Available from, as of November 30, 2016: https://www.atsdr.cdc.gov/toxprofiles/index.asp

- Hazardous Substances Data Bank (HSDB)

Decomposition of trichloroethylene, due to contact with hot metal or ultraviolet radiation, forms hazardous products, including chlorine gas, hydrogen chloride, and phosgene ... Slowly decomposed by light in presence of moisture, with formation of hydrochloric acid.

Pohanish, R.P. (ed). Sittig's Handbook of Toxic and Hazardous Chemical Carcinogens 6th Edition Volume 1: A-K,Volume 2: L-Z. William Andrew, Waltham, MA 2012, p. 2619

- Hazardous Substances Data Bank (HSDB)

When heated to decomposition it emits toxic fumes of /hydrogens of chloride and hydrogens of fluoride/.

Lewis, R.J. Sr. (ed) Sax's Dangerous Properties of Industrial Materials. 11th Edition. Wiley-Interscience, Wiley & Sons, Inc. Hoboken, NJ. 2004., p. 903

- Hazardous Substances Data Bank (HSDB)

Slowly dec (with formn of HCl) by light in the presence of moisture.

O'Neil, M.J. (ed.). The Merck Index - An Encyclopedia of Chemicals, Drugs, and Biologicals. Cambridge, UK: Royal Society of Chemistry, 2013., p. 1786

- Hazardous Substances Data Bank (HSDB)

3.2.19 Viscosity

0.545 mPa s at 25 °C

Burdock, G.A. (ed.). Fenaroli's Handbook of Flavor Ingredients. 5th ed.Boca Raton, FL 2005, p. 6-231

- Hazardous Substances Data Bank (HSDB)

3.2.20 Corrosivity

Non-corrosive

Sittig, M. Handbook of Toxic and Hazardous Chemicals and Carcinogens, 1985. 2nd ed. Park Ridge, NJ: Noyes Data Corporation, 1985., p. 883

- Hazardous Substances Data Bank (HSDB)

3.2.21 Heat of Combustion

-6.56 kJ/g

Snedecor G et al; Chloroethylenes and Chloroethanes. Kirk-Othmer Encyclopedia of Chemical Technology. (1999-2016). New York, NY: John Wiley & Sons. Online Posting Date: Jan 16, 2004.

- Hazardous Substances Data Bank (HSDB)

3.2.22 Heat of Vaporization

34.54 kJ/mol at 25 °C; 31.40 kJ/mol at 87.21 °C

Haynes, W.M. (ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 6-144

- Hazardous Substances Data Bank (HSDB)

3.2.23 Surface Tension

0.0264 N/m at 20 °C

Dreher EL et al; Chloroethanes and Chloroethylenes. Ullmann's Encyclopedia of Industrial Chemistry. 7th ed. (1999-2016). New York, NY: John Wiley & Sons. Online Posting Date: Nov 19, 2014.

- Hazardous Substances Data Bank (HSDB)

3.2.24 Ionization Potential

9.45 eV

- Occupational Safety and Health Administration (OSHA); The National Institute for Occupational Safety and Health (NIOSH)

3.2.25 Odor Threshold

5.00X10-1 mg/l (liquid) (detection in water)

Fazzalari, F.A. (ed.). Compilation of Odor and Taste Threshold Values Data. ASTM Data Series DS 48A (Committee E-18). Philadelphia, PA: American Society for Testing and Materials, 1978., p. 159

- Hazardous Substances Data Bank (HSDB)

2.14X10+1 ppm (recognition in air) (chemically pure)

Fazzalari, F.A. (ed.). Compilation of Odor and Taste Threshold Values Data. ASTM Data Series DS 48A (Committee E-18). Philadelphia, PA: American Society for Testing and Materials, 1978., p. 159

- Hazardous Substances Data Bank (HSDB)

3.2.26 Refractive Index

Index of refraction: 1.4773 at 20 °C/D

Haynes, W.M. (ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 3-520

- Hazardous Substances Data Bank (HSDB)

3.2.27 Relative Evaporation Rate

3.0 (n-butyl acetate = 1, ethanol = 1.4, acetone = 5.7)

Dow; Chlorinated Solvents, Product Stewardship Manual. The Dow Chemical Company, Form No.100-07164X-0609P&M

- Hazardous Substances Data Bank (HSDB)

3.2.28 Kovats Retention Index

Standard non-polar	683, 687, 690, 694, 691, 688, 675, 691, 696, 702, 710, 698, 687.4, 691, 680, 680, 676.6, 693, 694, 691, 688.1, 687.7, 691, 681, 681, 691, 710, 672, 686, 686, 689, 673, 680, 689, 710, 683, 690
Semi-standard non-polar	703, 702.1, 702, 693, 686, 701, 702, 696.5, 690.1, 722, 701, 704.1, 700, 686, 689, 690
Standard polar	993, 1008, 1019, 1010, 1007.14, 1010.7, 1012.45, 999, 1010, 970, 993, 1008.5, 1010, 1010, 993, 984, 994.7, 1005.5, 1028, 999, 1028, 964

- NIST Mass Spectrometry Data Center

3.2.29 Other Experimental Properties

Percent in saturated air: 10.2 (25 °C); Equivalencies: 1 mg/L = 185.8 ppm and 1 ppm = 5.38 mg/cu m at 25 °C, 760 mm Hg

Clayton, G.D., F.E. Clayton (eds.) Patty's Industrial Hygiene and Toxicology. Volumes 2A, 2B, 2C, 2D, 2E, 2F: Toxicology. 4th ed. New York, NY: John Wiley & Sons Inc., 1993-1994., p. 4194

- Hazardous Substances Data Bank (HSDB)

Ratio of Specific Heats of Vapor (gas) : 1.116

U.S. Coast Guard, Department of Transportation. CHRIS - Hazardous Chemical Data. Volume II. Washington, D.C.: U.S. Government Printing Office, 1984-5.

- Hazardous Substances Data Bank (HSDB)

Olive oil/water partition coefficient 522:1 at 37 °C.

Sato A, Nakajima T; Arch Envir Health 43: 69-75 (1979) as cited in USEPA; Health Assessment Document: Trichloroethylene (Draft) p. 3-3 (1983) EPA-600/8-82-006B

- Hazardous Substances Data Bank (HSDB)

Weight per gallon at 20 °C: 12.20 lb.

Flick, E.W. Industrial Solvents Handbook. 3rd ed. Park Ridge, NJ: Noyes Publications, 1985., p. 143

- Hazardous Substances Data Bank (HSDB)

For more Other Experimental Properties (Complete) data for Trichloroethylene (9 total), please visit the HSDB record page.

- Hazardous Substances Data Bank (HSDB)

3.3 SpringerMaterials Properties

Schoenflies notation	Excess enthalpy	Phase diagram	Thermal expansion coefficient
Acentric factor	Fusion temperature	Phase equilibrium	Transition enthalpy
Boiling point	Heat capacity	Phase transition	Vapor pressure
Chemical bond	Heat of solution	Point group	Vapor-liquid equilibrium
Chemical diffusion	Heat of sublimation	Quadrupole coupling	Virial coefficient
Composition	Internuclear distance	Reaction coordinate	Viscosity
Corrosion	Magnetic susceptibility	Refractive index	
Critical point	Melting temperature	Rotational excitation cross section	
Density	Mixing enthalpy	Sound absorption	
Diamagnetic susceptibility	Molar mass	Sound propagation	
Dielectric constant	Molecular structure	Sound velocity	
Diffusion	Nuclear quadrupole resonance spectroscopy	Surface tension	
Diffusive flux	Optical coefficient	Thermal conductivity	

- SpringerMaterials

COVID-19 Information
Public health information (CDC) Research information (NIH) SARS-CoV-2 data (NCBI) Prevention and treatment information (HHS) Español

PubChem

COMPOUND SUMMARY

Vinyl chloride

PubChem CID	6338
Structure	2D 3D Find Similar Structures
Chemical Safety	Flammable Health Hazard Laboratory Chemical Safety Summary (LCSS) Datasheet
Molecular Formula	C_2H_3Cl or $H_2C{=}CHCl$
Synonyms	VINYL CHLORIDE Chloroethene Chloroethylene Ethene, chloro- 75-01-4 More...
Molecular Weight	62.50
Dates	Modify 2022-01-29 Create 2004-09-16

Vinyl Chloride is a chlorinated hydrocarbon occurring as a colorless, highly flammable gas with a mild, sweet odor that may emit toxic fumes of carbon dioxide, carbon monoxide, hydrogen chloride and phosgene when heated to decomposition. Vinyl chloride is primarily used to make polyvinyl chloride to manufacture plastics. Exposure to this substance affects the central and peripheral nervous system and causes liver damage. Prolonged exposure to vinyl chloride can cause a set of symptoms that is characterized by Raynaud's phenomenon, joint and muscle pain and scleroderma-like skin changes. Vinyl chloride is a known human carcinogen and is associated with an increased risk of developing liver cancer, predominantly angiosarcoma of the liver, but is also linked to brain and lung cancer as well as cancer of the lymphatic and hematopoietic system. (NCI05)

- NCI Thesaurus (NCIt)

Vinyl chloride appears as a colorless gas with a sweet odor. Easily ignited. Shipped as a liquefied gas under own vapor pressure. Contact with the unconfined liquid may cause frostbite by evaporative cooling. Leaks may be liquid or vapor. Vapors are heavier than air. May asphyxiate by the displacement of air. Under prolonged exposure to fire or intense heat the containers may rupture violently and rocket. Suspected carcinogen. Used to make plastics, adhesives, and other chemicals.

- CAMEO Chemicals

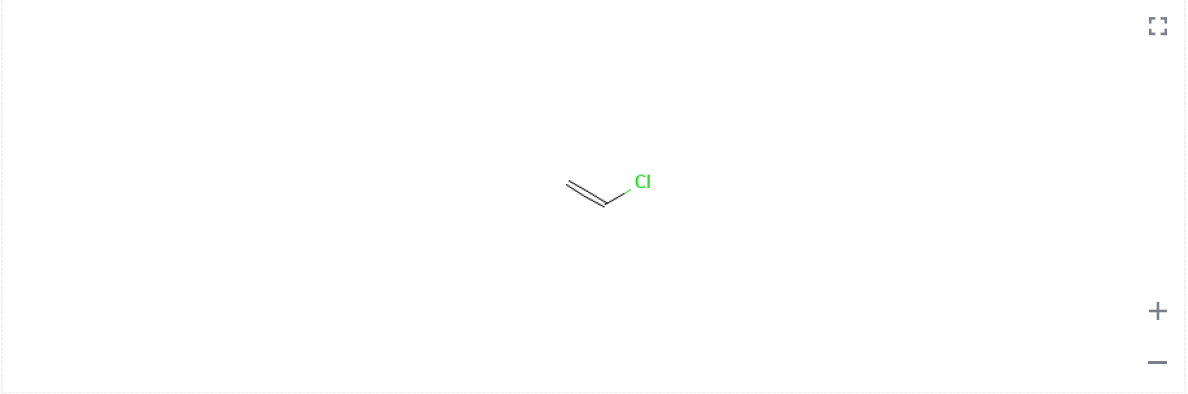
Vinyl chloride is a colorless gas. It burns easily and it is not stable at high temperatures. It has a mild, sweet odor. It is a manufactured substance that does not occur naturally. It can be formed when other substances such as trichloroethane, trichloroethylene, and tetrachloroethylene are broken down. Vinyl chloride is used to make polyvinyl chloride (PVC). PVC is used to make a variety of plastic products, including pipes, wire and cable coatings, and packaging materials.Vinyl chloride is also known as chloroethene, chloroethylene, and ethylene monochloride.

- CDC-ATSDR Toxic Substances Portal

1 Structures

1.1 2D Structure

Chemical Structure Depiction



PubChem

1.2 3D Conformer

PubChem

2 Names and Identifiers

2.1 Computed Descriptors

2.1.1 IUPAC Name

chloroethene

Computed by Lexichem TK 2.7.0 (PubChem release 2021.05.07)

- PubChem

2.1.2 InChI

InChI=1S/C2H3Cl/c1-2-3/h2H,1H2

Computed by InChI 1.0.6 (PubChem release 2021.05.07)

- PubChem

2.1.3 InChI Key

BZHJMEDXRYGGRV-UHFFFAOYSA-N

Computed by InChI 1.0.6 (PubChem release 2021.05.07)

- PubChem

2.1.4 Canonical SMILES

C=CCl

Computed by OEChem 2.3.0 (PubChem release 2021.05.07)

- PubChem

2.2 Molecular Formula

C2H3Cl

- CAMEO Chemicals; Wikipedia; PubChem

C2H3Cl

H2C=CHCl

- ILO International Chemical Safety Cards (ICSC)

2.3 Other Identifiers

2.3.1 CAS

75-01-4

- CAMEO Chemicals; CAS Common Chemistry; ChemIDplus; EPA Acute Exposure Guideline Levels (AEGLs); EPA Chemicals under the TSCA; EPA DSSTox; European Chemicals Agency (ECHA); Hazardous Substances Data Bank (HSDB); I

9002-86-2

- ChemIDplus; EPA DSSTox; European Chemicals Agency (ECHA); Hazardous Substances Data Bank (HSDB); ILO International Chemical Safety Cards (ICSC)

2.3.2 Related CAS

26793-37-3

Compound: Ethene, chloro-, homopolymer, isotactic

- CAS Common Chemistry

25037-47-2

Compound: Ethene, chloro-, homopolymer, syndiotactic

- CAS Common Chemistry

9002-86-2

Compound: Poly(vinyl chloride)

- CAS Common Chemistry

2.3.3 Deprecated CAS

1187028-37-0

- ChemIDplus

11097-91-9, 11111-94-7, 11119-27-0, 117079-84-2, 121870-60-8, 124149-62-8, 139074-74-1, 148880-09-5, 155422-17-6, 161051-90-7, 187247-43-4, 25038-46-4, 37357-61-2, 39287-89-3, 39296-17-8, 39387-43-4, 39389-56-5, 39393-59-4, 50642-89-2, 50935-77-8, 51248-43-2, 51281-46-0, 51540-75-1, 51569-45-0, 53029-14-4, 53112-41-7, 54328-27-7, 54328-28-8, 55465-75-3, 59678-57-8, 59740-40-8, 59740-42-0, 60281-99-4, 62132-30-3, 62931-08-2, 63440-29-9, 66988-60-1, 68441-74-7, 68858-77-5, 72751-14-5, 74192-23-7, 74504-79-3, 76012-29-8, 79103-67-6, 80044-12-8, 8063-94-3, 9006-09-1, 9036-81-1, 9041-55-8, 9043-47-4, 9043-48-5, 90452-37-2, 9072-17-7, 9072-39-3, 93050-82-9, 96353-76-3, 96726-77-1, 97123-54-1, 97343-78-7, 98865-43-1, 142804-84-0, 161279-96-5, 172929-21-4, 172929-22-5, 202218-76-6, 203460-55-3, 206072-56-2, 220323-68-2, 221007-07-4, 226986-75-0, 237753-45-6, 819078-47-2, 94928-20-8, 944150-61-2, 1151920-49-8, 1202645-33-7, 221007-08-5, 37349-64-7, 1202745-98-9, 1353669-85-8, 1606984-26-2, 1646340-94-4, 2098622-75-2, 2137864-40-3, 2227301-88-2, 2230296-03-2, 2241229-70-7

- ChemIDplus

2.3.4 European Community (EC) Number

200-831-0

- European Chemicals Agency (ECHA)

618-338-8

- European Chemicals Agency (ECHA)

924-145-2

- European Chemicals Agency (ECHA)

2.3.5 ICSC Number

0082

- ILO International Chemical Safety Cards (ICSC)

1487

- ILO International Chemical Safety Cards (ICSC)

2.3.6 RTECS Number

KU9625000

- The National Institute for Occupational Safety and Health (NIOSH)

2.3.7 UN Number

1086

- CAMEO Chemicals; DOT Emergency Response Guidebook; ILO International Chemical Safety Cards (ICSC); NJDOH RTK Hazardous Substance List; The National Institute for Occupational Safety and Health (NIOSH)

2.3.8 UNII

WD06X94M2D

- FDA/SPL Indexing Data

2.3.9 DSSTox Substance ID

DTXSID8021434

- EPA DSSTox

DTXSID5025940

- EPA DSSTox

2.3.10 Wikipedia

Vinyl chloride

- Wikipedia

2.3.11 NCI Thesaurus Code

C936

- NCI Thesaurus (NCIt)

2.4 Synonyms

2.4.1 MeSH Entry Terms

Chloride, Vinyl
Chloroethylene
Vinyl Chloride

Medical Subject Headings (MeSH)

2.4.2 Depositor-Supplied Synonyms

VINYL CHLORIDE	Chlorure de vinyle	VC	Vinyl chlorine	Polyvinylchloride latex	Vinyl chloride, >=99.95%
Chloroethene	Ethylene, chloro-	cloroetileno	Vinylchlorid [German]	C2H3Cl	CHEMBL2311071
Chloroethylene	Chlorethene	cloruro de vinilo	Polyvinyl chloride resin	EINECS 200-831-0	DTXSID8021434
Ethene, chloro-	Trovidur	UNII-WD06X94M2D	Ultron	UN1086	Vinyl chloride, inhibited or Vinyl chloride stabilized [UN1086]
75-01-4	Poly(vinyl chloride)	UN 1086	Winylu chlorek [Polish]	RCRA waste no. U043	MFCD00040415
Monochloroethene	Vinyl C monomer	chloroethyl	Chlorure de vinyle [French]	BRN 1731576	AKOS015916049
Monochloroethylene	Vinyl chloride monomer	WD06X94M2D	Cloruro di vinile [Italian]	Vinyl chloride Chloroethylene	MCULE-9678046268
Vinylchloride	Winylu chlorek	VCM	CCRIS 621	chloro-ethene	Vinyl chloride 100 microg/mL in Methanol
Ethylene monochloride	Cloruro di vinile	1-Chlorethyl	Vinyle(chlorure de) [French]	1-Chloroethylene #	Vinyl chloride 1000 microg/mL in Methanol
Chlorethylene	9002-86-2	POLYVINYL CHLORIDE	HSDB 169	EC 200-831-0	Vinyl Chloride 5000 microg/mL in Methanol
Vinylchlorid	RCRA waste number U043	CHEBI:28509	Vinile (cloruro di)	4-01-00-00700 (Beilstein Handbook Reference)	FT-0606106
Monovinyl chloride	Vinyle(chlorure de)	poly(vinylchloride)	Vinile (cloruro di) [Italian]	Vinyl chloride, >=99.5%	FT-0693147

PubChem

3 Chemical and Physical Properties

3.1 Computed Properties

Property Name	Property Value	Reference
Molecular Weight	62.50	Computed by PubChem 2.1 (PubChem release 2021.05.07)
XLogP3-AA	1.5	Computed by XLogP3 3.0 (PubChem release 2021.05.07)
Hydrogen Bond Donor Count	0	Computed by Cactvs 3.4.8.18 (PubChem release 2021.05.07)
Hydrogen Bond Acceptor Count	0	Computed by Cactvs 3.4.8.18 (PubChem release 2021.05.07)
Rotatable Bond Count	0	Computed by Cactvs 3.4.8.18 (PubChem release 2021.05.07)
Exact Mass	61.9923278	Computed by PubChem 2.1 (PubChem release 2021.05.07)
Monoisotopic Mass	61.9923278	Computed by PubChem 2.1 (PubChem release 2021.05.07)
Topological Polar Surface Area	0 $Å^2$	Computed by Cactvs 3.4.8.18 (PubChem release 2021.05.07)
Heavy Atom Count	3	Computed by PubChem
Formal Charge	0	Computed by PubChem
Complexity	10.3	Computed by Cactvs 3.4.8.18 (PubChem release 2021.05.07)
Isotope Atom Count	0	Computed by PubChem
Defined Atom Stereocenter Count	0	Computed by PubChem
Undefined Atom Stereocenter Count	0	Computed by PubChem
Defined Bond Stereocenter Count	0	Computed by PubChem
Undefined Bond Stereocenter Count	0	Computed by PubChem
Covalently-Bonded Unit Count	1	Computed by PubChem
Compound Is Canonicalized	Yes	Computed by PubChem (release 2021.05.07)

PubChem

3.2 Experimental Properties

3.2.1 Physical Description

Vinyl chloride appears as a colorless gas with a sweet odor. Easily ignited. Shipped as a liquefied gas under own vapor pressure. Contact with the unconfined liquid may cause frostbite by evaporative cooling. Leaks may be liquid or vapor. Vapors are heavier than air. May asphyxiate by the displacement of air. Under prolonged exposure to fire or intense heat the containers may rupture violently and rocket. Suspected carcinogen. Used to make plastics, adhesives, and other chemicals.

CAMEO Chemicals

GasVapor, Liquid; Liquid; OtherSolid

EPA Chemicals under the TSCA

COLOURLESS COMPRESSED LIQUEFIED GAS WITH CHARACTERISTIC ODOUR.

ILO International Chemical Safety Cards (ICSC)

WHITE POWDER OR PELLETS.

ILO International Chemical Safety Cards (ICSC)

Colorless gas or liquid (below 7°F) with a pleasant odor at high concentrations.

Occupational Safety and Health Administration (OSHA)

Colorless gas or liquid (below 7°F) with a pleasant odor at high concentrations. [Note: Shipped as a liquefied compressed gas.]

The National Institute for Occupational Safety and Health (NIOSH)

3.2.2 Color/Form

Colorless gas or liquid (below 77 degrees F) [Note: Shipped as a liquefied compressed gas]

NIOSH. NIOSH Pocket Guide to Chemical Hazards. Department of Health & Human Services, Centers for Disease Control & Prevention. National Institute for Occupational Safety & Health. DHHS (NIOSH) Publication No. 2010-168 (2010). Available from: https://www.cdc.gov/niosh/npg

Hazardous Substances Data Bank (HSDB)

WHITE THERMOPLASTIC SUBSTANCE

International Labour Office. Encyclopedia of Occupational Health and Safety. Volumes I and II. New York: McGraw-Hill Book Co., 1971., p. 1467

Hazardous Substances Data Bank (HSDB)

PLASTIC SOLID

The Merck Index. 9th ed. Rahway, New Jersey: Merck & Co., Inc., 1976., p. 986

Hazardous Substances Data Bank (HSDB)

UNMODIFIED, RIGID PVC IS TRANSPARENT, COLORLESS TO AMBER; PLASTICIZED (NONRIGID) PVC IS TRANSPARENT, COLORLESS TO AMBER

Weast, R.C. (ed.). Handbook of Chemistry and Physics. 60th ed. Boca Raton, Florida: CRC Press Inc., 1979., p. C-786

Hazardous Substances Data Bank (HSDB)

3.2.3 Odor

Ethereal odor

Larranaga, M.D., Lewis, R.J. Sr., Lewis, R.A.; Hawley's Condensed Chemical Dictionary 16th Edition. John Wiley & Sons, Inc. Hoboken, NJ 2016., p. 1416

- Hazardous Substances Data Bank (HSDB)

Mild, sweet odor

O'Neil, M.J. (ed.). The Merck Index - An Encyclopedia of Chemicals, Drugs, and Biologicals. Cambridge, UK: Royal Society of Chemistry, 2013., p. 1858

- Hazardous Substances Data Bank (HSDB)

Pleasant odor at high concentrations

NIOSH. NIOSH Pocket Guide to Chemical Hazards. Department of Health & Human Services, Centers for Disease Control & Prevention. National Institute for Occupational Safety & Health. DHHS (NIOSH) Publication No. 2010-168 (2010). Available from: https://www.cdc.gov/niosh/npg

- Hazardous Substances Data Bank (HSDB)

ODORLESS

International Labour Office. Encyclopedia of Occupational Health and Safety. Volumes I and II. New York: McGraw-Hill Book Co., 1971., p. 1467

- Hazardous Substances Data Bank (HSDB)

3.2.4 Boiling Point

7 °F at 760 mm Hg (NTP, 1992)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

- CAMEO Chemicals

-13.3 °C

- EPA DSSTox

-13.8 °C

Haynes, W.M. (ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 3-106

- Hazardous Substances Data Bank (HSDB)

-13 °C

- ILO International Chemical Safety Cards (ICSC)

7°F

- Occupational Safety and Health Administration (OSHA); The National Institute for Occupational Safety and Health (NIOSH)

3.2.5 Melting Point

-245 °F (NTP, 1992)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

- CAMEO Chemicals

-153.7 °C

- EPA DSSTox

-153.84 °C

Haynes, W.M. (ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 3-106

- Hazardous Substances Data Bank (HSDB)

NOTCHED IZOD IMPACT STRENGTH: 0.4-2.0 FT LB/IN; ROCKWELL HARDNESS: R110-R120; HEAT DISTORTION 264 LB/SQ IN: 60-80 °C; SPECIFIC HEAT: 0.2-0.28 CAL/G; LINEAR THERMAL EXPANSION COEFFICIENT, 1X10-5; 5.0-18 °C; MAX CONTINUOUS SERVICE TEMP: 70-74 °C; /UNMODIFIED, RIGID PVC/

Weast, R.C. (ed.). Handbook of Chemistry and Physics. 60th ed. Boca Raton, Florida: CRC Press Inc., 1979., p. C-787

- Hazardous Substances Data Bank (HSDB)

-154 °C

- ILO International Chemical Safety Cards (ICSC)

-256°F

- Occupational Safety and Health Administration (OSHA); The National Institute for Occupational Safety and Health (NIOSH)

3.2.6 Flash Point

-110 °F (NTP, 1992)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

- CAMEO Chemicals

Gas (-108.4 °F (-78 °C)) - open cup.

National Fire Protection Association; Fire Protection Guide to Hazardous Materials. 14TH Edition, Quincy, MA 2010, p. 325-115

- **Hazardous Substances Data Bank (HSDB)**

-78 °C (-112 °F) - closed cup

O'Neil, M.J. (ed.). The Merck Index - An Encyclopedia of Chemicals, Drugs, and Biologicals. Cambridge, UK: Royal Society of Chemistry, 2013., p. 1858

- **Hazardous Substances Data Bank (HSDB)**

-78 °C c.c.

- **ILO International Chemical Safety Cards (ICSC)**

-110°F

- **Occupational Safety and Health Administration (OSHA)**

NA (Gas)

- **The National Institute for Occupational Safety and Health (NIOSH)**

3.2.7 Solubility

Slightly soluble (NTP, 1992)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

- **CAMEO Chemicals**

In water, 8.8X10+3 mg/L at 25 °C

Delassus PT, Schmidt DD; J Chem Eng Data 26: 274-6 (1981)

- **Hazardous Substances Data Bank (HSDB)**

In water, 2700 mg/L

Riddick, J.A., W.B. Bunger, Sakano T.K. Techniques of Chemistry 4th ed., Volume II. Organic Solvents. New York, NY: John Wiley and Sons., 1985., p. 1325

- **Hazardous Substances Data Bank (HSDB)**

Soluble in ethanol; very soluble in ethyl ether

Haynes, W.M. (ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 3-106

- **Hazardous Substances Data Bank (HSDB)**

Soluble in carbon tetrachloride and benzene

O'Neil, M.J. (ed.). The Merck Index - An Encyclopedia of Chemicals, Drugs, and Biologicals. Cambridge, UK: Royal Society of Chemistry, 2013., p. 1858

- **Hazardous Substances Data Bank (HSDB)**

Soluble in hydrocarbons, oil, chlorinated solvents, and most common organic solvents.

Cowfer JA, Gorensek MB; Vinyl chloride. Kirk-Othmer Encyclopedia of Chemical Technology. (1999-2018). New York, NY: John Wiley & Sons. Online Posting Date: 19 May 2006

- **Hazardous Substances Data Bank (HSDB)**

HIGH MOL WT UNMODIFIED PVC SOL IN: CYCLOHEXANONE; METHYL CYCLOHEXANONE; DIMETHYL FORMAMIDE; NITROBENZENE; TETRAHYDROFURAN; ISOPHORONE; MESITYL OXIDE

The Merck Index. 9th ed. Rahway, New Jersey: Merck & Co., Inc., 1976., p. 986

- **Hazardous Substances Data Bank (HSDB)**

LOW MOL WT PVC POLYMERS SOL IN: DIPROPYL KETONE; METHYL AMYL KETONE; METHYL ISOBUTYL KETONE; ACETONYLACETONE; METHYL ETHYL KETONE; DIOXANE; METHYLENE CHLORIDE

The Merck Index. 9th ed. Rahway, New Jersey: Merck & Co., Inc., 1976., p. 986

- **Hazardous Substances Data Bank (HSDB)**

Solubility in water, g/l at 25 °C: 1.1 (poor)

- **ILO International Chemical Safety Cards (ICSC)**

Solubility in water: very poor

- **ILO International Chemical Safety Cards (ICSC)**

(77°F): 0.1%

- **The National Institute for Occupational Safety and Health (NIOSH)**

3.2.8 Density

0.969 at 8.6 °F (USCG, 1999)

U.S. Coast Guard. 1999. Chemical Hazard Response Information System (CHRIS) - Hazardous Chemical Data. Commandant Instruction 16465.12C. Washington, D.C.: U.S. Government Printing Office.

- **CAMEO Chemicals**

0.9106 g/cu cm at 20 °C

Haynes, W.M. (ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 3-106

- Hazardous Substances Data Bank (HSDB)

1.406

The Merck Index. 9th ed. Rahway, New Jersey: Merck & Co., Inc., 1976., p. 986

- Hazardous Substances Data Bank (HSDB)

Density (vapour at 15 °C): 8 g/l

- ILO International Chemical Safety Cards (ICSC)

Relative density (water = 1): 0.9 (liquid)

- ILO International Chemical Safety Cards (ICSC)

1.41 g/cm³

- ILO International Chemical Safety Cards (ICSC)

0.969 at 8.6°F

- Occupational Safety and Health Administration (OSHA)

2.21(relative gas density)

- The National Institute for Occupational Safety and Health (NIOSH)

3.2.9 Vapor Density

2.15 (Air = 1)

Lewis, R.J. Sr. (ed) Sax's Dangerous Properties of Industrial Materials. 12th Edition. Wiley-Interscience, Wiley & Sons, Inc. Hoboken, NJ. 2012., p. V5: 4525

- Hazardous Substances Data Bank (HSDB)

Relative vapor density (air = 1): 2.2

- ILO International Chemical Safety Cards (ICSC)

2.21

- Occupational Safety and Health Administration (OSHA)

3.2.10 Vapor Pressure

3877.5 mm Hg (USCG, 1999)

U.S. Coast Guard. 1999. Chemical Hazard Response Information System (CHRIS) - Hazardous Chemical Data. Commandant Instruction 16465.12C. Washington, D.C.: U.S. Government Printing Office.

- CAMEO Chemicals

2.98e+03 mmHg

- EPA DSSTox

2980 mm Hg at 25 °C

Daubert, T.E., R.P. Danner. Physical and Thermodynamic Properties of Pure Chemicals Data Compilation. Washington, D.C.: Taylor and Francis, 1989.

- Hazardous Substances Data Bank (HSDB)

Vapor pressure, kPa at 20 °C: 334

- ILO International Chemical Safety Cards (ICSC)

3.3 atm

- Occupational Safety and Health Administration (OSHA); The National Institute for Occupational Safety and Health (NIOSH)

3.2.11 LogP

log Kow = 1.46

Sakuratani Y et al; QSAR Comb Sci 26: 109-116 (2007)

- Hazardous Substances Data Bank (HSDB)

1.6

- ILO International Chemical Safety Cards (ICSC)

3.2.12 Henrys Law Constant

0.03 atm-m3/mole

- EPA DSSTox

Henry's Law constant = 0.0278 atm-cu m/mole at 25 °C

Gossett JM; Environ Sci Technol 21: 202-6 (1987)

- Hazardous Substances Data Bank (HSDB)

3.2.13 Atmospheric OH Rate Constant

6.96e-12 cm3/molecule*sec

KWOK,ESC & ATKINSON,R (1994)

- EPA DSSTox

3.2.14 Stability/Shelf Life

An unstable polyperoxide is apparently formed in vinyl chloride through oxidation by atmospheric oxygen in the presence of any of a variety of contaminants. Storage under these conditions for a long period increases the concentration of unstable polyperoxide to hazardous levels.

National Fire Protection Association; Fire Protection Guide to Hazardous Materials. 14TH Edition, Quincy, MA 2010, p. 491-206

- Hazardous Substances Data Bank (HSDB)

Long-term exposure to air may result in formation of peroxides that can initiate explosive polymerization of the chloride.

Lewis, R.J. Sr. (ed) Sax's Dangerous Properties of Industrial Materials. 11th Edition. Wiley-Interscience, Wiley & Sons, Inc. Hoboken, NJ. 2004., p. 3675

- Hazardous Substances Data Bank (HSDB)

STABILIZERS ARE NECESSARY TO PREVENT DISCOLORATION FROM EXPOSURE TO LIGHT OR HEAT

The Merck Index. 9th ed. Rahway, New Jersey: Merck & Co., Inc., 1976., p. 986

- Hazardous Substances Data Bank (HSDB)

AT ORDINARY TEMPERATURES IT MAY UNDERGO SLOW DEHALOGENATION WITH EVOLUTION OF HYDROGEN CHLORIDE

International Labour Office. Encyclopedia of Occupational Health and Safety. Volumes I and II. New York: McGraw-Hill Book Co., 1971., p. 1136

- Hazardous Substances Data Bank (HSDB)

3.2.15 Autoignition Temperature

882 °F (USCG, 1999)

U.S. Coast Guard. 1999. Chemical Hazard Response Information System (CHRIS) - Hazardous Chemical Data. Commandant Instruction 16465.12C. Washington, D.C.: U.S. Government Printing Office.

- CAMEO Chemicals

882 °F (472 °C)

National Fire Protection Association; Fire Protection Guide to Hazardous Materials. 14TH Edition, Quincy, MA 2010, p. 325-115

- Hazardous Substances Data Bank (HSDB)

472 °C

- ILO International Chemical Safety Cards (ICSC)

3.2.16 Decomposition

When heated to decomposition is emits highly toxic fumes of /chloride/.

Lewis, R.J. Sr. (ed) Sax's Dangerous Properties of Industrial Materials. 11th Edition. Wiley-Interscience, Wiley & Sons, Inc. Hoboken, NJ. 2004., p. 3675

- Hazardous Substances Data Bank (HSDB)

WHEN HEATED TO DECOMP, IT EMITS HIGHLY TOXIC FUMES OF /HYDROGEN CHLORIDE AND PHOSGENE/.

Lewis, R.J. Sax's Dangerous Properties of Industrial Materials. 9th ed. Volumes 1-3. New York, NY: Van Nostrand Reinhold, 1996., p. 2747

- Hazardous Substances Data Bank (HSDB)

3.2.17 Viscosity

0.01072 cP at 101.325 kPa, 20 °C (gas); 0.280 cP at -20 °C (liquid)

Braker W, Mossman A; Matheson Gas Data Book 6th ed, p.695 (1980)

- Hazardous Substances Data Bank (HSDB)

3.2.18 Corrosivity

Vinyl chloride is not corrosive when dry but in presence of moisture it corrodes iron and steel.

Lefaux, R. Practical Toxicology of Plastics. Cleveland: CRC Press Inc., 1968., p. 82

- Hazardous Substances Data Bank (HSDB)

3.2.19 Heat of Vaporization

160 Btu/Lb = 88 cal/g = -189.1X10+5 J/kg

NOAA; CAMEO Chemicals. Database of Hazardous Materials. Vinyl chloride (75-01-4). Natl Ocean Atmos Admin, Off Resp Rest; NOAA Ocean Serv. Available from, as of Mar 21, 2018: https://cameochemicals.noaa.gov/

- Hazardous Substances Data Bank (HSDB)

3.2.20 Surface Tension

23.1 dyn/cm at -20 °C

Braker W, Mossman A; Matheson Gas Data Book 6th ed, p.695 (1980)

- Hazardous Substances Data Bank (HSDB)

3.2.21 Ionization Potential

9.99 eV

- Occupational Safety and Health Administration (OSHA); The National Institute for Occupational Safety and Health (NIOSH)

3.2.22 Polymerization

Polymerization occurs if heated in sunlight or presence of air; reaction is exothermic.

Environment Canada; Tech Info for Problem Spills: Vinyl Chloride (Draft) p.1 (1983)

- Hazardous Substances Data Bank (HSDB)

Polymerizes in light or in presence of catalyst.

O'Neil, M.J. (ed.). The Merck Index - An Encyclopedia of Chemicals, Drugs, and Biologicals. Cambridge, UK: Royal Society of Chemistry, 2013., p. 1858

- Hazardous Substances Data Bank (HSDB)

... Tends to self-polymerize explosively if peroxidation occurs, and several industrial explosions have been recorded.

Bretherick, L. Handbook of Reactive Chemical Hazards. 4th ed. Boston, MA: Butterworth-Heinemann Ltd., 1990, p. 244

- Hazardous Substances Data Bank (HSDB)

/Vinyl chloride/ will polymerize readily due to heating and under the influence of air, light, and on contact with a catalyst, strong oxidizing agents and metals such as **copper** and **aluminum**, with fire or explosion hazard.

International Labour Office. Encyclopaedia of Occupational Health and Safety. 4th edition, Volumes 1-4 1998. Geneva, Switzerland: International Labour Office, 1998., p. 104.263

- Hazardous Substances Data Bank (HSDB)

3.2.23 Refractive Index

Index of refraction: 1.3700 at 20 °C/D

Haynes, W.M. (ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 3-106

- Hazardous Substances Data Bank (HSDB)

DC RESISTIVITY: 1X10+12-1X10+16 OHM/CM; INDEX OF REFRACTION: 1.54 D; DIELECTRIC CONSTANT @ 60 CYCLES/SEC: 3.2-4.0; @ 1X10+16 CYCLES/SEC: 3.0-4.0 /UNMODIFIED, RIGID PVC/

Weast, R.C. (ed.). Handbook of Chemistry and Physics. 60th ed. Boca Raton, Florida: CRC Press Inc., 1979., p. C-787

- Hazardous Substances Data Bank (HSDB)

3.2.24 Kovats Retention Index

Standard non-polar	386, 366, 378, 358.5, 353, 372.3
Semi-standard non-polar	362, 363, 364, 366, 355
Standard polar	603, 505

- NIST Mass Spectrometry Data Center

3.2.25 Other Experimental Properties

Liquifies in freezing mixture

O'Neil, M.J. (ed.). The Merck Index - An Encyclopedia of Chemicals, Drugs, and Biologicals. Cambridge, UK: Royal Society of Chemistry, 2013., p. 1858

- Hazardous Substances Data Bank (HSDB)

Hydroxyl radical reaction rate constant = 6.96X10-12 cu cm/molecule-sec at 25 °C

Kwok ESC, Atkinson R; Estimation of hydroxyl radical reaction rate constants for gas-phase organic compounds using a structure-reactivity relationship: an update. Riverside, CA: Univ CA, Statewide Air Pollut Res Ctr. CMA Contract No. ARC-8.0-OR (1994)

- Hazardous Substances Data Bank (HSDB)

DISSIPATION FACTOR @ 1X10+6 CYCLES/SEC: 0.006-0.02; @ 60 CYCLES/SEC: 0.01-0.02; YIELD STRAIN: 1.0-5.0%; MODULUS OF ELASTICITY @ 1X10+3 LB/SQ IN: 200-600; TENSILE STRENGTH: 5000-9000 LB/SQ IN; ULTIMATE ELONGATION: 2.0-40% /UNMODIFIED, RIGID PVC/

Weast, R.C. (ed.). Handbook of Chemistry and Physics. 60th ed. Boca Raton, Florida: CRC Press Inc., 1979., p. C-787

- Hazardous Substances Data Bank (HSDB)

DC RESISTIVITY: 1X10+11-1X10+14 OHM/CM; DIELECTRIC CONSTANT @ 60 CYCLES/SEC: 5.0-9.0; DIELECTRIC CONSTANT @ 1X10+6 CYCLES/SEC: 3.0-4.0; DISSIPATION FACTOR @ 60 CYCLES/SEC: 0.03-0.05; DISSIPATION FACTOR @ 1X10+6 CYCLES/SEC: 0.06-0.1 /PLASTICIZED (NON RIGID) PVC/

Weast, R.C. (ed.). Handbook of Chemistry and Physics. 60th ed. Boca Raton, Florida: CRC Press Inc., 1979., p. C-787

- Hazardous Substances Data Bank (HSDB)

TENSILE STRENGTH: 1,500-3,000 LB/SQ IN; ULTIMATE ELONGATION: 200-400%; SPECIFIC GRAVITY: 1.15-1.35; SPECIFIC HEAT: 0.36-0.5 CAL/G; LINEAR THERMAL EXPANSION COEFFICIENT: 1X10+5, 7.0-25 °C; MAX CONTINUOUS SERVICE TEMP: 80-105 °C; INDEX OF REFRACTION: 1.50-1.55/D /PLASTICIZED (NON RIGID) PVC/

Weast, R.C. (ed.). Handbook of Chemistry and Physics. 60th ed. Boca Raton, Florida: CRC Press Inc., 1979., p. C-787

- Hazardous Substances Data Bank (HSDB)

THERMOPLASTIC SUBSTANCE WITH HIGH RESISTANCE TO CHEMICALS; IT CAN WITHSTAND TEMPERATURES OF 65-80 °C VERY WELL; GOOD MECHANICAL & ELECTRICAL PROPERTIES

International Labour Office. Encyclopedia of Occupational Health and Safety. Volumes I and II. New York: McGraw-Hill Book Co., 1971., p. 1467

- Hazardous Substances Data Bank (HSDB)

3.3 SpringerMaterials Properties

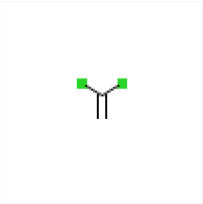
Coriolis coupling	Dissociation energy	Nuclear quadrupole resonance spectroscopy	Transition enthalpy
Schoenflies notation	Electric dipole moment	Optical coefficient	Vapor pressure
Atomic environment	Energy	Phase diagram	Vapor-liquid equilibrium
Boiling point	Equilibrium structure	Phase equilibrium	Vibrational mode frequency
Bond type	Fusion temperature	Phase transition	Virial coefficient
Centrifugal distortion	Heat of sublimation	Point group	Viscosity
Chemical bond	Internuclear distance	Quadrupole coupling	
Chemical diffusion	Magnetic susceptibility	Reaction coordinate	
Composition	Melting temperature	Refractive index	
Density	Molecular dipole moment	Rotation-vibration spectrum	
Diamagnetic susceptibility	Molecular structure	Rotational excitation cross section	
Diffusion	Nuclear quadrupole coupling	Surface tension	
Diffusive flux	Nuclear quadrupole moment	Thermal expansion coefficient	

- SpringerMaterials

National Library of Medicine
National Center for Biotechnology Information

COMPOUND SUMMARY

Vinylidene chloride

PubChem CID	6366
Structure	 2D 3D
Chemical Safety	Flammable Irritant Health Hazard Laboratory Chemical Safety Summary (LCSS) Datasheet
Molecular Formula	$C_2H_2Cl_2$ $H_2C{=}CCl_2$
Synonyms	Vinylidene chloride 1,1-Dichloroethene 1,1-DICHLOROETHYLENE 75-35-4 Vinylidene dichloride View More...
Molecular Weight	96.94 g/mol *Computed by PubChem 2.2 (PubChem release 2021.10.14)*
Dates	Create: 2005-03-27 Modify: 2024-02-17
Description	1, 1-Dichloroethene is an industrial chemical that is not found naturally in the environment. It is a colorless liquid with a mild, sweet

smell. It is also called vinylidene chloride. 1, 1-Dichloroethene is used to make certain plastics, such as flexible films like food wrap, and in packaging materials. It is also used to make flame retardant coatings for fiber and carpet backings, and in piping, coating for steel pipes, and in adhesive applications.

- Agency for Toxic Substances and Disease Registry (ATSDR)

Vinylidene chloride, stabilized appears as a clear colorless liquid with a chloroform-like odor. Flash point 0 °F. Boiling point 99 °F. Denser (at 10.1 lb / gal) than water and insoluble in water. Hence sinks in water. May polymerize exothermically if heated or contaminated. If the polymerization takes place inside a container, the container may rupture violently. Vapors heavier than air.

- CAMEO Chemicals

1,1-dichloroethene is a member of the class of chloroethenes that is ethene in which both of the hydrogens attached to one of the carbons are replaced by chlorines. It has a role as a mutagen, a carcinogenic agent and a mouse metabolite.

- ChEBI

View More...

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17 Biological Test Results
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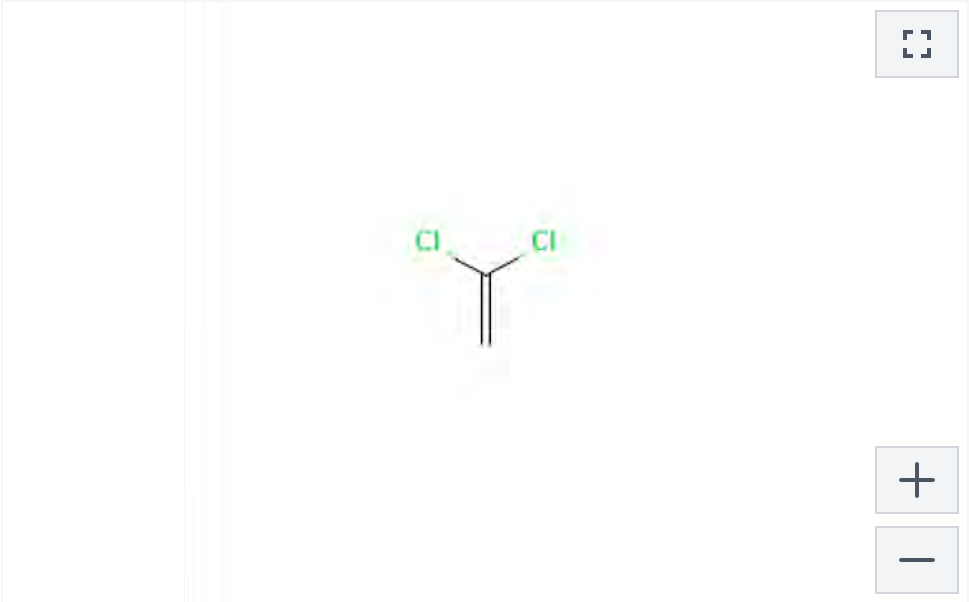
19 Classification
20 Information Sources

1 Structures

1.1 2D Structure

Chemical Structure Depiction



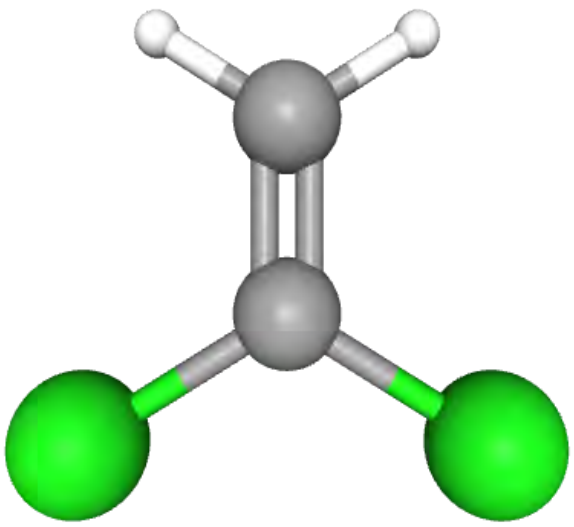
PubChem

1.2 3D Conformer

Interactive Chemical Structure Model

Ball and Stick Sticks Wire-Frame Space-Filling

Show Hydrogens Animate



PubChem

2 Names and Identifiers

2.1 Computed Descriptors

2.1.1 IUPAC Name

1,1-dichloroethene

Computed by Lexichem TK 2.7.0 (PubChem release 2021.10.14)

PubChem

2.1.2 InChI

InChI=1S/C2H2Cl2/c1-2(3)4/h1H2

Computed by InChI 1.0.6 (PubChem release 2021.10.14)

- **PubChem**

2.1.3 InChIKey

LGXVIGDEPROXKC-UHFFFAOYSA-N

Computed by InChI 1.0.6 (PubChem release 2021.10.14)

- **PubChem**

2.1.4 Canonical SMILES

C=C(Cl)Cl

Computed by OEChem 2.3.0 (PubChem release 2021.10.14)

- **PubChem**

2.2 Molecular Formula

$C_2H_2Cl_2$

Computed by PubChem 2.2 (PubChem release 2021.10.14)

- **CAMEO Chemicals; PubChem**

$C_2H_2Cl_2$

$H_2C{=}CCl_2$

- **ILO-WHO International Chemical Safety Cards (ICSCs)**

2.3 Other Identifiers

2.3.1 CAS

75-35-4

- CAMEO Chemicals; CAS Common Chemistry; ChemIDplus; EPA Chemicals under the TSCA; EPA D...

9002-85-1

- European Chemicals Agency (ECHA)

2.3.2 Related CAS

9002-85-1

Compound: Poly(vinylidene chloride)

- CAS Common Chemistry

2.3.3 European Community (EC) Number

200-864-0

- European Chemicals Agency (ECHA)

920-418-5

- European Chemicals Agency (ECHA)

2.3.4 UNII

21SK105J9D

- FDA Global Substance Registration System (GSRS)

2.3.5 UN Number

1303

- CAMEO Chemicals; ILO-WHO International Chemical Safety Cards (ICSCs); NJDOH RTK Hazardous...

1303 (Vinylidene chloride, stabilized)

- Emergency Response Guidebook (ERG)

2.3.6 ChEMBL ID

CHEMBL156455

- ChEMBL

2.3.7 DSSTox Substance ID

DTXSID8021438

- EPA DSSTox

2.3.8 ICSC Number

0083

- ILO-WHO International Chemical Safety Cards (ICSCs)

2.3.9 KEGG ID

C14039

- KEGG

2.3.10 Metabolomics Workbench ID

54908

- Metabolomics Workbench

2.3.11 Nikkaji Number

J2.391D

- Japan Chemical Substance Dictionary (Nikkaji)

2.3.12 RTECS Number

KV9275000

- The National Institute for Occupational Safety and Health (NIOSH)

2.3.13 Wikidata

Q161284

- Wikidata

2.3.14 Wikipedia

1,1-Dichloroethene

- Wikipedia

2.4 Synonyms

2.4.1 MeSH Entry Terms

1,1-dichloroethene
1,1-dichloroethylene
vinylidene chloride
vinylidine chloride

- Medical Subject Headings (MeSH)

2.4.2 Depositor-Supplied Synonyms

Vinylidene chloride	RCRA waste number U078	asym-Dichloroethylene
1,1-Dichloroethene	Chlorure de vinylidene	Vinylidene chloride (II)
1,1-DICHLOROETHYLENE	NCI-C54262	Vinylidene chloride, monomer
75-35-4	VINYLIDENE CHLORIDE LATEX	CCRIS 622
Vinylidene dichloride	1,1-Dichloro-Ethene	Vinylidene chloride (inhibited)
1,1-Dce	DTXSID8021438	Chlorure de vinylidene [French]
Ethene, 1,1-dichloro-	CHEBI:34031	HSDB 1995
Vinylidine chloride	21SK105J9D	1,1-Dichloroethene 100 microg/mL in Methar
Ethylene, 1,1-dichloro-	VDC	EINECS 200-864-0
9002-85-1	as-Dichloroethylene	UN1303

PubChem

3 Chemical and Physical Properties

3.1 Computed Properties

Property Name	Property Value	Reference
Molecular Weight	96.94 g/mol	Computed by PubChem 2.2 (PubChem release 2021.10.14)
XLogP3-AA	2.3	Computed by XLogP3 3.0 (PubChem release 2021.10.14)
Hydrogen Bond Donor Count	0	Computed by Cactvs 3.4.8.18 (PubChem release 2021.10.14)
Hydrogen Bond Acceptor Count	0	Computed by Cactvs 3.4.8.18 (PubChem release 2021.10.14)
Rotatable Bond Count	0	Computed by Cactvs 3.4.8.18 (PubChem release 2021.10.14)
Exact Mass	95.9533555 g/mol	Computed by PubChem 2.2 (PubChem release 2021.10.14)
Monoisotopic Mass	95.9533555 g/mol	Computed by PubChem 2.2 (PubChem release 2021.10.14)
Topological Polar Surface Area	0Å^2	Computed by Cactvs 3.4.8.18 (PubChem release 2021.10.14)

Heavy Atom Count	4	Computed by PubChem
Formal Charge	0	Computed by PubChem
Complexity	27	Computed by Cactvs 3.4.8.18 (PubChem release 2021.10.14)
Isotope Atom Count	0	Computed by PubChem
Defined Atom Stereocenter Count	0	Computed by PubChem
Undefined Atom Stereocenter Count	0	Computed by PubChem
Defined Bond Stereocenter Count	0	Computed by PubChem
Undefined Bond Stereocenter Count	0	Computed by PubChem
Covalently-Bonded Unit Count	1	Computed by PubChem
Compound Is Canonicalized	Yes	Computed by PubChem (release 2021.10.14)

PubChem

3.2 Experimental Properties

3.2.1 Physical Description

Vinylidene chloride, stabilized appears as a clear colorless liquid with a chloroform-like odor. Flash point 0 °F. Boiling point 99 °F. Denser (at 10.1 lb / gal) than water and insoluble in water. Hence sinks in water. May polymerize exothermically if heated or contaminated. If the polymerization takes place inside a container, the container may rupture violently. Vapors heavier than air.

CAMEO Chemicals

Liquid

EPA Chemicals under the TSCA

Colorless liquid or gas (above 89 degrees F) with a mild, sweet, chloroform-like odor; [NIOSH]

- Haz-Map, Information on Hazardous Chemicals and Occupational Diseases

VOLATILE COLOURLESS LIQUID WITH CHARACTERISTIC ODOUR.

- ILO-WHO International Chemical Safety Cards (ICSCs)

Colorless liquid or gas (above 89 °F) with a mild, sweet, chloroform-like odor.

- Occupational Safety and Health Administration (OSHA); The National Institute for Occupational S...

3.2.2 Color / Form

Colorless liquid

Larranaga, M.D., Lewis, R.J. Sr., Lewis, R.A.; Hawley's Condensed Chemical Dictionary 16th Edition. John Wiley & Sons, Inc. Hoboken, NJ 2016., p. 1418

- Hazardous Substances Data Bank (HSDB)

Colorless liquid or gas (above 89 degrees F)

*NIOSH. NIOSH Pocket Guide to Chemical Hazards. Department of Health & Human Services, Centers for Disease Control & Prevention. National Institute for Occupational Safety & Health. DHHS (NIOSH) Publication No. 2010-168 (2010). Available from: **https://www.cdc.gov/niosh/npg***

- Hazardous Substances Data Bank (HSDB)

3.2.3 Odor

Mild, sweet odor resembling that of chloroform

O'Neil, M.J. (ed.). The Merck Index - An Encyclopedia of Chemicals, Drugs, and Biologicals. Cambridge, UK: Royal Society of Chemistry, 2013., p. 1858

- Hazardous Substances Data Bank (HSDB)

3.2.4 Boiling Point

89.1 °F at 760 mmHg (NTP, 1992)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

- CAMEO Chemicals

31.6 °C

Haynes, W.M. (ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 3-162

- **Hazardous Substances Data Bank (HSDB)**

32 °C

- **ILO-WHO International Chemical Safety Cards (ICSCs)**

89.1 °F

- **Occupational Safety and Health Administration (OSHA)**

89 °F

- **The National Institute for Occupational Safety and Health (NIOSH)**

3.2.5 Melting Point

-188.5 °F (NTP, 1992)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

- **CAMEO Chemicals**

-122.5 °C

Haynes, W.M. (ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 3-162

- **Hazardous Substances Data Bank (HSDB)**

Latent heat of fusion: 6.51 kJ/mol at melting point

Haynes, W.M. (ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 6-153

- **Hazardous Substances Data Bank (HSDB)**

-122 °C

- **ILO-WHO International Chemical Safety Cards (ICSCs)**

-188.5 °F

- Occupational Safety and Health Administration (OSHA)

-189 °F

- The National Institute for Occupational Safety and Health (NIOSH)

3.2.6 Flash Point

14 °F (NTP, 1992)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

- CAMEO Chemicals

14 °F

- Haz-Map, Information on Hazardous Chemicals and Occupational Diseases; Occupational Safety ...

-19 °C (-2 °F) - closed cup

Sigma-Aldrich; Safety Data Sheet for 1,1-Dichloroethylene. Product Number: 02574, Version 4.11 (Revision Date 08/09/2016). Available from, as of February 8, 2018: ***https://www.sigmaaldrich.com/safety-center.html***

- Hazardous Substances Data Bank (HSDB)

0 °F (open cup)

Lewis, R.J. Sr. (ed) Sax's Dangerous Properties of Industrial Materials. 11th Edition. Wiley-Interscience, Wiley & Sons, Inc. Hoboken, NJ. 2004., p. 3678

- Hazardous Substances Data Bank (HSDB)

-19 °F (-28 °C) - closed cup

National Fire Protection Association; Fire Protection Guide to Hazardous Materials. 14TH Edition, Quincy, MA 2010, p. 325-115

- Hazardous Substances Data Bank (HSDB)

-19 °C (Closed cup), -15 °C (Open cup)

American Conference of Governmental Industrial Hygienists. Documentation of the TLV's and BEI's with Other World Wide Occupational Exposure Values. CD-ROM Cincinnati, OH 45240-1634 2007.

- Hazardous Substances Data Bank (HSDB)

-17 °C (Closed cup)

*IARC. Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans. Geneva: World Health Organization, International Agency for Research on Cancer, 1972-PRESENT. (Multivolume work). Available at: **https://monographs.iarc.fr/ENG/Classification/index.php**, p. V19 440 (1979)*

- **Hazardous Substances Data Bank (HSDB)**

-25 °C c.c.

- **ILO-WHO International Chemical Safety Cards (ICSCs)**

-2 °F

- **The National Institute for Occupational Safety and Health (NIOSH)**

3.2.7 Solubility

5 to 10 mg/mL at 70 °F (NTP, 1992)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

- **CAMEO Chemicals**

In water, 2,420 mg/L at 25 °C

Horvath A et al; J Phys Chem Ref Data 128: 395-623 (1999)

- **Hazardous Substances Data Bank (HSDB)**

Insoluble in water

Larranaga, M.D., Lewis, R.J. Sr., Lewis, R.A.; Hawley's Condensed Chemical Dictionary 16th Edition. John Wiley & Sons, Inc. Hoboken, NJ 2016., p. 1418

- **Hazardous Substances Data Bank (HSDB)**

0.63 g/100 g water at 50 °C (solubility at saturation vapor pressure)

Kirk-Othmer Encyclopedia of Chemical Technology. 3rd ed., Volumes 1-26. New York, NY: John Wiley and Sons, 1978-1984., p. V14: 83 (1981)

- **Hazardous Substances Data Bank (HSDB)**

In water: 3.5 g/l at 4 °C; 3.0 g/l at 16 °C

Dow Chem Co; Vinylidene Chloride Monomer: Safe Handling Guide (1980)

- Hazardous Substances Data Bank (HSDB)

Soluble in ethanol, acetone, benzene, carbon tetrachloride; very soluble in ethyl ether, chloroform.

Haynes, W.M. (ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 3-162

- Hazardous Substances Data Bank (HSDB)

Solubility in water, g/100ml at 25 °C: 0.25 (very poor)

- ILO-WHO International Chemical Safety Cards (ICSCs)

0.04%

- The National Institute for Occupational Safety and Health (NIOSH)

3.2.8 Density

1.21 at 68 °F (USCG, 1999) - Denser than water; will sink

U.S. Coast Guard. 1999. Chemical Hazard Response Information System (CHRIS) - Hazardous Chemical Data. Commandant Instruction 16465.12C. Washington, D.C.: U.S. Government Printing Office.

- CAMEO Chemicals

1.2129 at 20 °C/4 °C

O'Neil, M.J. (ed.). The Merck Index - An Encyclopedia of Chemicals, Drugs, and Biologicals. Cambridge, UK: Royal Society of Chemistry, 2013., p. 1858

- Hazardous Substances Data Bank (HSDB)

Liquid density at 0 °C: 1.2517 g/cu m

USEPA; Health Assessment Document: Vinylidene Chloride p.3-2 (1983) EPA-600/8-83-031A

- Hazardous Substances Data Bank (HSDB)

Relative density (water = 1): 1.2

- ILO-WHO International Chemical Safety Cards (ICSCs)

1.21

- Occupational Safety and Health Administration (OSHA); The National Institute for Occupational S...

3.2.9 Vapor Density

3.25 (NTP, 1992) - Heavier than air; will sink (Relative to Air)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

- **CAMEO Chemicals**

3.25 (Air = 1)

NOAA; CAMEO Chemicals. Database of Hazardous Materials. Vinylidene chloride (75-35-4). Natl Ocean Atmos Admin, Off Resp Rest; NOAA Ocean Serv. Available from, as of Mar 21, 2018: ***https://cameochemicals.noaa.gov/***

- **Hazardous Substances Data Bank (HSDB)**

Relative vapor density (air = 1): 3.3

- **ILO-WHO International Chemical Safety Cards (ICSCs)**

3.25

- **Occupational Safety and Health Administration (OSHA)**

3.2.10 Vapor Pressure

500 mmHg at 68 °F ; 591 mmHg at 77 °F (NTP, 1992)

National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

- **CAMEO Chemicals**

600.0 [mmHg]

- **Haz-Map, Information on Hazardous Chemicals and Occupational Diseases**

600 mm Hg at 25 °C

Boublik, T., Fried, V., and Hala, E., The Vapour Pressures of Pure Substances. Second Revised Edition. Amsterdam: Elsevier, 1984., p. 96

- **Hazardous Substances Data Bank (HSDB)**

Vapor pressure, kPa at 20 °C: 66.5

- ILO-WHO International Chemical Safety Cards (ICSCs)

500 mmHg

- Occupational Safety and Health Administration (OSHA); The National Institute for Occupational S...

3.2.11 LogP

log Kow = 2.13

Hansch, C., Leo, A., D. Hoekman. Exploring QSAR - Hydrophobic, Electronic, and Steric Constants. Washington, DC: American Chemical Society., 1995., p. 4

- Hazardous Substances Data Bank (HSDB)

2.41

- ILO-WHO International Chemical Safety Cards (ICSCs)

3.2.12 Henry's Law Constant

Henry's Law constant = 2.61X10-2 atm-cu m/mole @ 24 °C

Gossett JM; Environ Sci Tech 21: 202-6 (1987)

- Hazardous Substances Data Bank (HSDB)

3.2.13 Stability / Shelf Life

Stable under recommended storage conditions. Contains the following stabilizer(s): **Mequinol** (0.02%).

*Sigma-Aldrich; Safety Data Sheet for 1,1-Dichloroethylene. Product Number: 02574, Version 4.11 (Revision Date 08/09/2016). Available from, as of February 8, 2018: **https://www.sigmaaldrich.com/safety-center.html***

- Hazardous Substances Data Bank (HSDB)

It forms explosive peroxides upon exposure to air.

Lewis, R.J. Sr. (ed) Sax's Dangerous Properties of Industrial Materials. 11th Edition. Wiley-Interscience, Wiley & Sons, Inc. Hoboken, NJ. 2004., p. 3678

- Hazardous Substances Data Bank (HSDB)

3.2.14 Autoignition Temperature

1058 °F (USCG, 1999)

U.S. Coast Guard. 1999. Chemical Hazard Response Information System (CHRIS) - Hazardous Chemical Data. Commandant Instruction 16465.12C. Washington, D.C.: U.S. Government Printing Office.

- CAMEO Chemicals

1058 °F (570 °C)

National Fire Protection Association; Fire Protection Guide to Hazardous Materials. 14TH Edition, Quincy, MA 2010, p. 325-115

- Hazardous Substances Data Bank (HSDB)

530 °C

- ILO-WHO International Chemical Safety Cards (ICSCs)

3.2.15 Decomposition

Hazardous decomposition products formed under fire conditions - Carbon oxides, hydrogen chloride gas.

*Sigma-Aldrich; Safety Data Sheet for 1,1-Dichloroethylene. Product Number: 02574, Version 4.11 (Revision Date 08/09/2016). Available from, as of February 8, 2018: **https://www.sigmaaldrich.com/safety-center.html***

- Hazardous Substances Data Bank (HSDB)

When heated to decomposition it emits toxic fumes of /chloride/.

Lewis, R.J. Sr. (ed) Sax's Dangerous Properties of Industrial Materials. 11th Edition. Wiley-Interscience, Wiley & Sons, Inc. Hoboken, NJ. 2004., p. 3678

- Hazardous Substances Data Bank (HSDB)

3.2.16 Viscosity

0.3302 cP at 20 °C

Wessling RA et al; Vinylidene Chloride Polymers. Kirk-Othmer Encyclopedia of Chemical Technology. (1999-2018). New York, NY: John Wiley & Sons. Online Posting Date: 10 Jun 2002

- Hazardous Substances Data Bank (HSDB)

3.2.17 Corrosivity

Vinylidene chloride may be corrosive or unstable in the presence of steel.

USEPA; Air Pollution Assessment of Vinylidene Chloride p.1-74 (1978) EPA 68-02-1495

- Hazardous Substances Data Bank (HSDB)

3.2.18 Heat of Combustion

1095.9 kJ/mole at 25 °C

Wessling RA et al; Vinylidene Chloride Polymers. Kirk-Othmer Encyclopedia of Chemical Technology. (1999-2018). New York, NY: John Wiley & Sons. Online Posting Date: 10 Jun 2002

- Hazardous Substances Data Bank (HSDB)

3.2.19 Heat of Vaporization

26.48 kJ/mole at 25 °C

Haynes, W.M. (ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 6-135

- Hazardous Substances Data Bank (HSDB)

3.2.20 Surface Tension

24 dynes/cm at 15 °C (Inhibited)

NOAA; CAMEO Chemicals. Database of Hazardous Materials. Vinylidene chloride (75-35-4). Natl Ocean Atmos Admin, Off Resp Rest; NOAA Ocean Serv. Available from, as of Mar 21, 2018: https://cameochemicals.noaa.gov/

- Hazardous Substances Data Bank (HSDB)

3.2.21 Ionization Potential

10.00 eV

- Occupational Safety and Health Administration (OSHA); The National Institute for Occupational S...

3.2.22 Polymerization

Hazardous polymerization may occur. Usually contains inhibitors to prevent polymerization. Polymerization may be caused by elevated temperature, oxidizers, peroxides, or air. Uninhibited monomer vapor may form polymer in vents and other confined spaces.

National Fire Protection Association; Fire Protection Guide to Hazardous Materials. 14TH Edition, Quincy, MA 2010, p. 49-155

- Hazardous Substances Data Bank (HSDB)

At temperatures >0 deg and especially in the presence of **oxygen** or other suitable catalysts polymerizes to a plastic.

O'Neil, M.J. (ed.). The Merck Index - An Encyclopedia of Chemicals, Drugs, and Biologicals. Cambridge, UK: Royal Society of Chemistry, 2013., p. 1858

- Hazardous Substances Data Bank (HSDB)

Inhibitors, such as the **monomethyl ether** of **hydroquinone**, are added to prevent polymerization.

Pohanish, R.P. (ed). Sittig's Handbook of Toxic and Hazardous Chemical Carcinogens 6th Edition Volume 1: A-K,Volume 2: L-Z. William Andrew, Waltham, MA 2012, p. 2711

- Hazardous Substances Data Bank (HSDB)

When stored between -40 and +25 °C in the absence of inhibitor and in presence of air, vinylidene chloride rapidly absorbs **oxygen** with formation of a violently explosive peroxide. The latter initiates polymerization, producing an insoluble polymer which adsorbs the peroxide. Separation of this polymer in a dry state must be avoided, since if more than 15% of peroxide is present, the polymer may be detonable by slight shock or heat.

Bretherick, L. Handbook of Reactive Chemical Hazards. 4th ed. Boston, MA: Butterworth-Heinemann Ltd., 1990, p. 237

- Hazardous Substances Data Bank (HSDB)

In the presence of polymerization initiators, vinylidene chloride undergoes self-polymerizaton to form homopolymers, or polymerizes with other compounds, /such as/ **vinyl chloride**, alkylacrylates, and **acrylonitrile** to form copolymers.

USEPA; Health Assessment Document: Vinylidene Chloride p.3-5 (1983) EPA-600/8-83-031A

- Hazardous Substances Data Bank (HSDB)

3.2.23 Odor Threshold

Odor threshold (air) = 2000-5500 mg/cu m

USEPA; Health Advisories for 25 Organics p. 109 (1987) PB87-235578

- Hazardous Substances Data Bank (HSDB)

3.2.24 Refractive Index

Index of refraction: 1.4249 at 20 °C/D

Haynes, W.M. (ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 3-162

- Hazardous Substances Data Bank (HSDB)

3.2.25 Relative Evaporation Rate

... The evaporation half-life of a dilute aqueous solution of vinylidene chloride (1 ppm w/w) in an open container stirred at 200 rpm at 25 °C /was/ 22 min, 90% of the compound was lost in 89 min.

Dilling WL et al; Environ Sci Technol 9 (9): 833-38 (1975) as cited in USEPA; Phase I Document: Vinylidene Chloride p.29 (1981) EPA No. 68-01-6030

- Hazardous Substances Data Bank (HSDB)

3.2.26 Kovats Retention Index

Standard non-polar	513, 513, 517, 517, 519, 517.2, 498, 508.9, 498, 513, 513.1, 509.4, 512, 511, 512, 511, 515, 519, 520, 515
Semi-standard non-polar	521.1, 489, 522
Standard polar	744, 744, 734.18, 744.91, 750.44, 736, 700, 736, 715

- NIST Mass Spectrometry Data Center

3.2.27 Other Experimental Properties

Heat of polymerization: -185 cal/g; vapor specific gravity: 3.3

NOAA; CAMEO Chemicals. Database of Hazardous Materials. Vinylidene chloride (75-35-4). Natl Ocean Atmos Admin, Off Resp Rest; NOAA Ocean Serv. Available from, as of Mar 21, 2018: ***https://cameochemicals.noaa.gov/***

- **Hazardous Substances Data Bank (HSDB)**

Heat of combustion: -4860 BTU/lb = -2700 cal/g

NOAA; CAMEO Chemicals. Database of Hazardous Materials. Vinylidene chloride (75-35-4). Natl Ocean Atmos Admin, Off Resp Rest; NOAA Ocean Serv. Available from, as of Mar 21, 2018: ***https://cameochemicals.noaa.gov/***

- **Hazardous Substances Data Bank (HSDB)**

Critical temperature: 535.8 K; critical pressure: 5.4 MPa /cis-1,1-Dichloroethene/; Critical temperature: 515.5 K; critical pressure: 5.3 MPa /trans-1,1-Dichloroethene/;

Haynes, W.M. (ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 6-62

- **Hazardous Substances Data Bank (HSDB)**

Specific heat capacity: 1.148 J/g-K at constant pressure at 25 °C

Haynes, W.M. (ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 15-15

- **Hazardous Substances Data Bank (HSDB)**

For more Other Experimental Properties (Complete) data for 1,1-Dichloroethylene (14 total), please visit the **HSDB record page**.

- **Hazardous Substances Data Bank (HSDB)**

3.2.28 Chemical Classes

Plastics & Rubber -> Vinyl Halides

- **Haz-Map, Information on Hazardous Chemicals and Occupational Diseases**

3.3 SpringerMaterials Properties

Coriolis coupling	Equilibrium structure	Nuclear quadrupole resonance spectroscop
Schoenflies notation	Fusion temperature	Optical coefficient
Boiling point	Heat of sublimation	Phase diagram
Centrifugal distortion	Internuclear distance	Phase transition
Chemical bond	Magnetic susceptibility	Point group
Composition	Melting temperature	Quadrupole coupling
Density	Molecular dipole moment	Refractive index
Diamagnetic susceptibility	Molecular structure	Rotation-vibration spectrum
Dielectric constant	Nuclear quadrupole coupling	Rotational excitation cross section
Electric dipole moment	Nuclear quadrupole moment	Thermal expansion coefficient

SpringerMaterials

4 Spectral Information

4.1 1D NMR Spectra

1 of 2	
1D NMR Spectra	NMR: 6385 (Sadtler Research Laboratories Spectral Collection)

Hazardous Substances Data Bank (HSDB)

2 of 2	
1D NMR Spectra	NMRShiftDB Link

NMRShiftDB

4.1.1 1H NMR Spectra

1 of 3	View All
Spectra ID	2618
Instrument Type	JEOL
Frequency	300 MHz

Section 8 - Tables

A table displaying the following information for each contaminant of concern, to the extent known:

> *A. The concentration level for soil and groundwater, the ingestion protective concentration level, and the non-ingestion protective concentration level, all expressed as mg/L units*
>
> *B. The critical protective concentration level without the municipal setting designation, highlighting any exceedances.*
>
> *C. The critical protective concentration level with the municipal setting designation, highlighting any exceedances.*

Tables 1 through 3 present the representative soil and groundwater data collected for the Designated Property. The groundwater ingestion-based (without an MSD ordinance) PCL exceedances are highlighted. There are no groundwater non-ingestion-based PCL exceedances.

Soil:

No soil PCLE Zones were identified at the Site.

Groundwater:

No groundwater PCLs will be exceeded after certification of an MSD.

All investigation points advanced on the Site are included on the figures and tables as referenced.

Table 1: Soil Results - VOCs

Rebar Facility
4700 Singleton Blvd
Dallas, Texas

						Sample Point:	B-1			B-2			B-3			B-4		
						Sample Date:	5/23/2023			5/23/2023			5/23/2023			5/23/2023		
						Sample Interval:	5-8'			3-5'			2.5-5'			2.5-5'		
Compound	**CAS**	**GWP**	**TSC**	**INH**	**RAL**	**Max**	**SDL**	**Result**		**SDL**	**Result**		**SDL**	**Result**		**SDL**	**Result**	
VOLATILE ORGANIC COMPOUNDS		**w/o MSD**	**w/ MSD**		**w/o MSD**													
1,1,1,2-Tetrachloroethane	630-20-6	1.4	65	91	**1.4**	**0**	0.000462	**ND**		0.000382	**ND**		0.000483	**ND**		0.000457	**ND**	
1,1,1-Trichloroethane	71-55-6	1.6	53000	78000	**1.6**	**0**	0.000502	**ND**		0.000416	**ND**		0.000525	**ND**		0.000497	**ND**	
1,1,2,2-Tetrachloroethane	79-34-5	0.023	30	NE	**0.023**	**0**	0.00687	**ND**		0.000569	**ND**		0.000718	**ND**		0.00068	**ND**	
1,1,2-Trichloroethane	79-00-5	0.02	18	22	**0.02**	**0**	0.000679	**ND**		0.000562	**ND**		0.00071	**ND**		0.000497	**ND**	
1,1,2-Trichlorotrifluoroethane	76-13-1	80000	74000	77000	**74000**	**0**	0.000502	**ND**		0.0007	**ND**		0.00105	**ND**		0.000994	**ND**	
1,1-Dichloroethane	75-34-3	18	11000	37000	**18**	**0**	0.000569	**ND**		0.000471	**ND**		0.000595	**ND**		0.000564	**ND**	
1,1-Dichloroethene	75-35-4	0.05	2300	5200	**0.05**	**0**	0.000458	**ND**		0.000379	**ND**		0.000479	**ND**		0.000453	**ND**	
1,1-Dichloropropene	563-58-6	0.13	36	90	**0.13**	**0**	0.000309	**ND**		0.000256	**ND**		0.000323	**ND**		0.000306	**ND**	
1,2,3-Trichlorobenzene	87-61-6	26	120	300	**26**	**0**	0.000454	**ND**		0.000376	**ND**		0.000475	**ND**		0.000449	**ND**	
1,2,3-Trichloropropane	96-18-4	0.00053	0.2	14	**0.00053**	**0**	0.000587	**ND**		0.000486	**ND**		0.000614	**ND**		0.000581	**ND**	
1,2,4-Trichlorobenzene	120-82-1	4.8	120	150	**4.8**	**0**	0.000724	**ND**		0.000599	**ND**		0.000757	**ND**		0.000717	**ND**	
1,2,4-Trimethylbenzene	95-63-6	33	1600	4000	**33**	**0**	0.000563	**ND**		0.000466	**ND**		0.000589	**ND**		0.000558	**ND**	
1,2-Dibromo-3-Chloropropane	96-12-8	0.0017	0.15	0.16	**0.0017**	**0**	0.00109	**ND**		0.000904	**ND**		0.00114	**ND**		0.00108	**ND**	
1,2-Dibromoethane	106-93-4	0.00021	2.5	13	**0.00021**	**0**	0.000621	**ND**		0.000514	**ND**		0.000649	**ND**		0.000614	**ND**	
1,2-Dichlorobenzene	95-50-1	18	720	800	**18**	**0**	0.000397	**ND**		0.000328	**ND**		0.000415	**ND**		0.000496	**ND**	
1,2-Dichloroethane	107-06-2	0.014	41	110	**0.014**	**0**	0.000369	**ND**		0.000305	**ND**		0.000385	**ND**		0.000365	**ND**	
1,2-Dichloropropane	78-87-5	0.023	61	61	**0.023**	**0**	0.000588	**ND**		0.000487	**ND**		0.000615	**ND**		0.000582	**ND**	
1,3,5-Trimethylbenzene	108-67-8	36	1500	3500	**36**	**0**	0.000556	**ND**		0.000461	**ND**		0.000582	**ND**		0.000551	**ND**	
1,3-Dichlorobenzene	541-73-1	6.7	120	120	**6.7**	**0**	0.000501	**ND**		0.000415	**ND**		0.000524	**ND**		0.000496	**ND**	
1,3-Dichloropropane	142-28-9	0.064	36	90	**0.064**	**0**	0.000335	**ND**		0.000278	**ND**		0.000622	**ND**		0.000332	**ND**	
1,4-Dichlorobenzene	106-46-7	2.1	250	12000	**2.1**	**0**	0.000498	**ND**		0.000412	**ND**		0.000521	**ND**		0.000493	**ND**	
2,2-Dichloropropane	594-20-7	0.12	61	61	**0.12**	**0**	0.000594	**ND**		0.000492	**ND**		0.000622	**ND**		0.000588	**ND**	
2-Butanone (Mek)	78-93-3	29	40000	200000	**29**	**0**	0.00775	**ND**		0.00642	**ND**		0.00811	**ND**		0.00767	**ND**	
2-Chlorotoluene	95-49-8	9.1	1200	13000	**9.1**	**0**	0.000273	**ND**		0.000226	**ND**		0.000286	**ND**		0.00027	**ND**	
2-Hexanone	591-78-6	3.2	690	830	**3.2**	**0**	0.00413	**ND**		0.00342	**ND**		0.00432	**ND**		0.00409	**ND**	
4-Chlorotoluene	106-43-4	11	1600	NE	**11**	**0**	0.000611	**ND**		0.000505	**ND**		0.000639	**ND**		0.000604	**ND**	
4-Methyl-2-Pentanone (Mibk)	108-10-1	4.9	5900	58000	**4.9**	**0**	0.00463	**ND**		0.00383	**ND**		0.00484	**ND**		0.00458	**ND**	
Acetone	67-64-1	43	66000	600000	**43**	**0**	0.0199	**ND**		0.0164	**ND**		0.0208	**ND**		0.0197	**ND**	
Acrylonitrile	107-13-1	0.0033	3.6	5.3	**0.0033**	**0**	0.00465	**ND**		0.00385	**ND**		0.00486	**ND**		0.0046	**ND**	
Benzene	71-43-2	0.026	120	160	**0.026**	**0**	0.000504	**ND**		0.000417	**ND**		0.000527	**ND**		0.000499	**ND**	
Bromobenzene	108-86-1	2.3	390	970	**2.3**	**0**	0.000808	**ND**		0.000669	**ND**		0.000845	**ND**		0.0008	**ND**	
Bromochloromethane	74-97-5	3	3300	NE	**3**	**0**	0.000635	**ND**		0.000525	**ND**		0.000664	**ND**		0.000628	**ND**	
Bromodichloromethane	75-27-4	0.36	98	NE	**0.36**	**0**	0.000656	**ND**		0.000543	**ND**		0.000686	**ND**		0.000649	**ND**	
Bromoform	75-25-2	0.44	400	840	**0.44**	**0**	0.0009	**ND**		0.000745	**ND**		0.000941	**ND**		0.000891	**ND**	
Bromomethane	74-83-9	0.13	39	60	**0.13**	**0**	0.00188	**ND**		0.000976	**ND**		0.00123	**ND**		0.00117	**ND**	
Carbon Disulfide	75-15-0	14	4600	11000	**14**	**0**	0.000332	**ND**		0.000275	**ND**		0.000348	**ND**		0.000329	**ND**	
Carbon Tetrachloride	56-23-5	0.062	35	60	**0.062**	**0**	0.000445	**ND**		0.000368	**ND**		0.000465	**ND**		0.00044	**ND**	
Chlorobenzene	108-90-7	1.1	520	770	**1.1**	**0**	0.000509	**ND**		0.000421	**ND**		0.000532	**ND**		0.000504	**ND**	
Chloroethane	75-00-3	31	27000	150000	**31**	**0**	0.000455	**ND**		0.000377	**ND**		0.000476	**ND**		0.00045	**ND**	
Chloroform	67-66-3	0.33	16	16	**0.33**	**0**	0.000476	**ND**		0.000394	**ND**		0.000498	**ND**		0.000471	**ND**	
Chloromethane	74-87-3	0.41	140	200	**0.41**	**0**	0.000551	**ND**		0.000456	**ND**		0.000577	**ND**		0.000546	**ND**	
cis-1,2-Dichloroethene	156-59-2	0.25	140	920	**0.25**	**0.00686**	0.000508	**ND**		0.000421	**0.0018**		0.000531	**ND**		0.000503	**ND**	
cis-1,3-Dichloropropene	10061-01-5	0.0066	8	310	**0.0066**	**0**	0.000621	**ND**		0.000514	**ND**		0.000649	**ND**		0.000614	**ND**	
Dibromochloromethane	124-48-1	0.36	72	NE	**0.36**	**0**	0.000175	**ND**		0.000145	**ND**		0.000183	**ND**		0.000541	**ND**	
Dibromomethane	74-95-3	1.1	81	82	**1.1**	**0**	0.000315	**ND**		0.000261	**ND**		0.00033	**ND**		0.000312	**ND**	
Dichlorodifluoromethane	75-71-8	240	1400	1500	**240**	**0**	0.000546	**ND**		0.000452	**ND**		0.000571	**ND**		0.000541	**ND**	
Ethylbenzene	100-41-4	7.6	6400	29000	**7.6**	**0**	0.000389	**ND**		0.000322	**ND**		0.000406	**ND**		0.000385	**ND**	
Hexachlorobutadiene	87-68-3	3.3	20	29	**3.3**	**0**	0.000553	**ND**		0.000458	**ND**		0.000579	**ND**		0.000548	**ND**	
Isopropylbenzene	98-82-8	350	4300	9200	**350**	**0**	0.000379	**ND**		0.000313	**ND**		0.000396	**ND**		0.000375	**ND**	
Methyl Tert-Butyl Ether	1634-04-4	0.62	800	1400	**0.62**	**0**	0.000588	**ND**		0.000487	**ND**		0.000615	**ND**		0.000582	**ND**	
Methylene Chloride	75-09-2	0.013	1600	13000	**0.013**	**0**	0.00133	**ND**		0.0011	**ND**		0.00139	**ND**		0.00131	**ND**	
Naphthalene	91-20-3	31	220	270	**31**	**0**	0.000673	**ND**		0.000557	**ND**		0.000704	**ND**		0.000666	**ND**	
n-Butylbenzene	104-51-8	150	3300	NE	**150**	**0**	0.000336	**ND**		0.000278	**ND**		0.000352	**ND**		0.000333	**ND**	
n-Propylbenzene	103-65-1	45	2200	6300	**45**	**0**	0.000518	**ND**		0.000429	**ND**		0.000542	**ND**		0.000513	**ND**	
p-Isopropyltoluene	99-87-6	230	8200	NE	**230**	**0**	0.0014	**ND**		0.0016	**ND**		0.00147	**ND**		0.00139	**ND**	
sec-Butylbenzene	135-98-8	85	3300	NE	**85**	**0**	0.000537	**ND**		0.000445	**ND**		0.000562	**ND**		0.000532	**ND**	
Styrene	100-42-5	3.3	6700	11000	**3.3**	**0**	0.000519	**ND**		0.00043	**ND**		0.000543	**ND**		0.000514	**ND**	
tert-Butylbenzene	98-06-6	100	3300	NE	**100**	**0**	0.000515	**ND**		0.000426	**ND**		0.000539	**ND**		0.00051	**ND**	
Tetrachloroethene	127-18-4	0.05	710	940	**0.05**	**0**	0.000457	**ND**		0.000378	**ND**		0.000478	**ND**		0.000452	**ND**	
Toluene	108-88-3	8.2	5900	63000	**8.2**	**0**	0.000562	**ND**		0.000466	**ND**		0.000588	**ND**		0.000557	**ND**	
trans-1,2-Dichloroethene	156-60-5	0.49	590	920	**0.49**	**0**	0.000464	**ND**		0.000384	**ND**		0.000485	**ND**		0.000459	**ND**	
trans-1,3-Dichloropropene	10061-02-6	0.036	36	90	**0.036**	**0**	0.000512	**ND**		0.000424	**ND**		0.000536	**ND**		0.000507	**ND**	
Trichloroethene	79-01-6	0.034	18	31	**0.034**	**0**	0.000463	**ND**		0.000383	**ND**		0.0004841	**ND**		0.000458	**ND**	
Trichlorofluoromethane	75-69-4	130	25000	NE	**130**	**0**	0.000846	**ND**		0.0007	**ND**		0.000884	**ND**		0.000837	**ND**	
Vinyl Chloride	75-01-4	0.022	3.7	43	**0.022**	**0**	0.00192	**ND**		0.00159	**ND**		0.00201	**ND**		0.0019	**ND**	
Xylenes, Total	1330-20-7	120	6000	9400	**120**	**0**	0.000402	**ND**		0.000333	**ND**		0.00042	**ND**		0.000398	**ND**	

Remarks:

All concentrations in mg/Kg

GWP = Groundwater Protection Value ($^{GW}Soil_{Ing}$ 0.5-Acre PCL)

TSC = Total Soil Combined Value ($^{Tot}Soil_{Comb}$ 0.5-Acre PCL)

INH= Inhalation Value ($^{Air}Soil_{Inh-V}$ 0.5-Acre PCL)

RAL = Residential Assessment Level (Applicable TRRP Critical PCL)

SDL = Sample Detection Limit

ND = Not Detected; NA = Not Analyzed; NE = Not Established

J = Estimated value below the lowest calibration point. Confidence correlates with concentration.

TRRP PCLs Published: May 2023

Please see laboratory data sheets for additional detail

= Exceeds non-ingestion based PCL

= Exceeds ingestion based PCL

Table 1: Soil Results - VOCs

Rebar Facility
4700 Singleton Blvd
Dallas, Texas

						Sample Point:	B-5			B-6			B-7			B-8		
						Sample Date:	5/23/2023			5/23/2023			5/23/2023			5/23/2023		
						Sample Interval:	2.5-5'			2.5-5'			2.5-5'			2-5'		
Compound	**CAS**	**GWP**	**TSC**	**INH**	**RAL**	**Max**	**SDL**	**Result**		**SDL**	**Result**		**SDL**	**Result**		**SDL**	**Result**	
VOLATILE ORGANIC COMPOUNDS		**w/o MSD**	**w/ MSD**		**w/o MSD**													
1,1,1,2-Tetrachloroethane	630-20-6	1.4	65	91	**1.4**	**0**	0.000435	**ND**		0.000342	**ND**		0.000446	**ND**		0.00049	**ND**	
1,1,1-Trichloroethane	71-55-6	1.6	53000	78000	**1.6**	**0**	0.000473	**ND**		0.000352	**ND**		0.000485	**ND**		0.000533	**ND**	
1,1,2,2-Tetrachloroethane	79-34-5	0.023	30	NE	**0.023**	**0**	0.000647	**ND**		0.000481	**ND**		0.000664	**ND**		0.000729	**ND**	
1,1,2-Trichloroethane	79-00-5	0.02	18	22	**0.02**	**0**	0.00064	**ND**		0.000476	**ND**		0.000656	**ND**		0.000721	**ND**	
1,1,2-Trichlorotrifluoroethane	76-13-1	80000	74000	77000	**74000**	**0**	0.000947	**ND**		0.000703	**ND**		0.00097	**ND**		0.00107	**ND**	
1,1-Dichloroethane	75-34-3	18	11000	37000	**18**	**0**	0.000347	**ND**		0.000258	**ND**		0.00055	**ND**		0.000605	**ND**	
1,1-Dichloroethene	75-35-4	0.05	2300	5200	**0.05**	**0**	0.000432	**ND**		0.000321	**ND**		0.000442	**ND**		0.000486	**ND**	
1,1-Dichloropropene	563-58-6	0.13	36	90	**0.13**	**0**	0.000292	**ND**		0.000217	**ND**		0.000299	**ND**		0.000328	**ND**	
1,2,3-Trichlorobenzene	87-61-6	26	120	300	**26**	**0**	0.000428	**ND**		0.000318	**ND**		0.000439	**ND**		0.000482	**ND**	
1,2,3-Trichloropropane	96-18-4	0.00053	0.2	14	**0.00053**	**0**	0.000554	**ND**		0.000412	**ND**		0.000568	**ND**		0.000624	**ND**	
1,2,4-Trichlorobenzene	120-82-1	4.8	120	150	**4.8**	**0**	0.000682	**ND**		0.000507	**ND**		0.000699	**ND**		0.000769	**ND**	
1,2,4-Trimethylbenzene	95-63-6	33	1600	4000	**33**	**0**	0.000531	**ND**		0.000395	**ND**		0.000544	**ND**		0.000598	**ND**	
1,2-Dibromo-3-Chloropropane	96-12-8	0.0017	0.15	0.16	**0.0017**	**0**	0.00103	**ND**		0.000765	**ND**		0.00106	**ND**		0.00116	**ND**	
1,2-Dibromoethane	106-93-4	0.00021	2.5	13	**0.00021**	**0**	0.000585	**ND**		0.000435	**ND**		0.0006	**ND**		0.000659	**ND**	
1,2-Dichlorobenzene	95-50-1	18	720	800	**18**	**0**	0.000374	**ND**		0.000278	**ND**		0.000383	**ND**		0.000421	**ND**	
1,2-Dichloroethane	107-06-2	0.014	41	110	**0.014**	**0**	0.000347	**ND**		0.000258	**ND**		0.000356	**ND**		0.000391	**ND**	
1,2-Dichloropropane	78-87-5	0.023	61	61	**0.023**	**0**	0.000555	**ND**		0.000412	**ND**		0.000569	**ND**		0.000625	**ND**	
1,3,5-Trimethylbenzene	108-67-8	36	1500	3500	**36**	**0**	0.000524	**ND**		0.00039	**ND**		0.000537	**ND**		0.000591	**ND**	
1,3-Dichlorobenzene	541-73-1	6.7	120	120	**6.7**	**0**	0.000472	**ND**		0.000351	**ND**		0.000484	**ND**		0.000532	**ND**	
1,3-Dichloropropane	142-28-9	0.064	36	90	**0.064**	**0**	0.000316	**ND**		0.000235	**ND**		0.000324	**ND**		0.000356	**ND**	
1,4-Dichlorobenzene	106-46-7	2.1	250	12000	**2.1**	**0**	0.000469	**ND**		0.000349	**ND**		0.000481	**ND**		0.000529	**ND**	
2,2-Dichloropropane	594-20-7	0.12	61	61	**0.12**	**0**	0.00056	**ND**		0.000416	**ND**		0.000574	**ND**		0.000631	**ND**	
2-Butanone (Mek)	78-93-3	29	40000	200000	**29**	**0**	0.00731	**ND**		0.00543	**ND**		0.00749	**ND**		0.00823	**ND**	
2-Chlorotoluene	95-49-8	9.1	1200	13000	**9.1**	**0**	0.000257	**ND**		0.000191	**ND**		0.000264	**ND**		0.00029	**ND**	
2-Hexanone	591-78-6	3.2	690	830	**3.2**	**0**	0.00389	**ND**		0.00289	**ND**		0.00399	**ND**		0.00439	**ND**	
4-Chlorotoluene	106-43-4	11	1600	NE	**11**	**0**	0.000576	**ND**		0.000938	**ND**		0.00059	**ND**		0.000648	**ND**	
4-Methyl-2-Pentanone (Mibk)	108-10-1	4.9	5900	58000	**4.9**	**0**	0.00437	**ND**		0.00324	**ND**		0.00447	**ND**		0.00492	**ND**	
Acetone	67-64-1	43	66000	600000	**43**	**0**	0.0187	**ND**		0.0139	**ND**		0.0192	**ND**		0.0211	**ND**	
Acrylonitrile	107-13-1	0.0033	3.6	5.3	**0.0033**	**0**	0.00438	**ND**		0.00325	**ND**		0.00449	**ND**		0.00493	**ND**	
Benzene	71-43-2	0.026	120	160	**0.026**	**0**	0.000475	**ND**		0.000353	**ND**		0.000487	**ND**		0.000535	**ND**	
Bromobenzene	108-86-1	2.3	390	970	**2.3**	**0**	0.000762	**ND**		0.000566	**ND**		0.000781	**ND**		0.000828	**ND**	
Bromochloromethane	74-97-5	3	3300	NE	**3**	**0**	0.000598	**ND**		0.000445	**ND**		0.000613	**ND**		0.000674	**ND**	
Bromodichloromethane	75-27-4	0.36	98	NE	**0.36**	**0**	0.000618	**ND**		0.000459	**ND**		0.000634	**ND**		0.000696	**ND**	
Bromoform	75-25-2	0.44	400	840	**0.44**	**0**	0.000848	**ND**		0.00063	**ND**		0.000869	**ND**		0.000955	**ND**	
Bromomethane	74-83-9	0.13	39	60	**0.13**	**0**	0.00111	**ND**		0.000826	**ND**		0.00114	**ND**		0.00125	**ND**	
Carbon Disulfide	75-15-0	14	4600	11000	**14**	**0**	0.000313	**ND**		0.000233	**ND**		0.000321	**ND**		0.000353	**ND**	
Carbon Tetrachloride	56-23-5	0.062	35	60	**0.062**	**0**	0.000419	**ND**		0.000312	**ND**		0.00043	**ND**		0.000472	**ND**	
Chlorobenzene	108-90-7	1.1	520	770	**1.1**	**0**	0.00048	**ND**		0.000357	**ND**		0.000492	**ND**		0.000541	**ND**	
Chloroethane	75-00-3	31	27000	150000	**31**	**0**	0.000429	**ND**		0.000319	**ND**		0.000439	**ND**		0.000483	**ND**	
Chloroform	67-66-3	0.33	16	16	**0.33**	**0**	0.000449	**ND**		0.000333	**ND**		0.00046	**ND**		0.000505	**ND**	
Chloromethane	74-87-3	0.41	140	200	**0.41**	**0**	0.00052	**ND**		0.000386	**ND**		0.000533	**ND**		0.000585	**ND**	
cis-1,2-Dichloroethene	156-59-2	0.25	140	920	**0.25**	**0.00686**	0.000479	**0.00686**		0.000356	**ND**		0.000491	**ND**		0.00054	**0.000788**	J
cis-1,3-Dichloropropene	10061-01-5	0.0066	8	310	**0.0066**	**0**	0.000585	**ND**		0.000435	**ND**		0.0006	**ND**		0.000659	**ND**	
Dibromochloromethane	124-48-1	0.36	72	NE	**0.36**	**0**	0.000165	**ND**		0.000122	**ND**		0.000169	**ND**		0.000186	**ND**	
Dibromomethane	74-95-3	1.1	81	82	**1.1**	**0**	0.000297	**ND**		0.000221	**ND**		0.000305	**ND**		0.000335	**ND**	
Dichlorodifluoromethane	75-71-8	240	1400	1500	**240**	**0**	0.000515	**ND**		0.000383	**ND**		0.000528	**ND**		0.00058	**ND**	
Ethylbenzene	100-41-4	7.6	6400	29000	**7.6**	**0**	0.000366	**ND**		0.000272	**ND**		0.000375	**ND**		0.000413	**ND**	
Hexachlorobutadiene	87-68-3	3.3	20	29	**3.3**	**0**	0.000522	**ND**		0.000388	**ND**		0.000535	**ND**		0.000588	**ND**	
Isopropylbenzene	98-82-8	350	4300	9200	**350**	**0**	0.000357	**ND**		0.000265	**ND**		0.000366	**ND**		0.000402	**ND**	
Methyl Tert-Butyl Ether	1634-04-4	0.62	800	1400	**0.62**	**0**	0.000555	**ND**		0.000412	**ND**		0.000569	**ND**		0.000625	**ND**	
Methylene Chloride	75-09-2	0.013	1600	13000	**0.013**	**0**	0.00125	**ND**		0.00093	**ND**		0.00128	**ND**		0.00141	**ND**	
Naphthalene	91-20-3	31	220	270	**31**	**0**	0.000634	**ND**		0.000471	**ND**		0.00065	**ND**		0.000714	**ND**	
n-Butylbenzene	104-51-8	150	3300	NE	**150**	**0**	0.000317	**ND**		0.000236	**ND**		0.000325	**ND**		0.000357	**ND**	
n-Propylbenzene	103-65-1	45	2200	6300	**45**	**0**	0.000488	**ND**		0.000363	**ND**		0.000501	**ND**		0.00055	**ND**	
p-Isopropyltoluene	99-87-6	230	8200	NE	**230**	**0**	0.00132	**ND**		0.000983	**ND**		0.00136	**ND**		0.00149	**ND**	
sec-Butylbenzene	135-98-8	85	3300	NE	**85**	**0**	0.000506	**ND**		0.000376	**ND**		0.000519	**ND**		0.00057	**ND**	
Styrene	100-42-5	3.3	6700	11000	**3.3**	**0**	0.000489	**ND**		0.000364	**ND**		0.000502	**ND**		0.00551	**ND**	
tert-Butylbenzene	98-06-6	100	3300	NE	**100**	**0**	0.000486	**ND**		0.000361	**ND**		0.000498	**ND**		0.000547	**ND**	
Tetrachloroethene	127-18-4	0.05	710	940	**0.05**	**0**	0.000431	**ND**		0.00032	**ND**		0.000441	**ND**		0.000485	**ND**	
Toluene	108-88-3	8.2	5900	63000	**8.2**	**0**	0.00053	**ND**		0.000394	**ND**		0.000543	**ND**		0.000597	**ND**	
trans-1,2-Dichloroethene	156-60-5	0.49	590	920	**0.49**	**0**	0.000437	**ND**		0.000325	**ND**		0.000448	**ND**		0.000493	**ND**	
trans-1,3-Dichloropropene	10061-02-6	0.036	36	90	**0.036**	**0**	0.000483	**ND**		0.000359	**ND**		0.000495	**ND**		0.000544	**ND**	
Trichloroethene	79-01-6	0.034	18	31	**0.034**	**0**	0.000436	**ND**		0.000324	**ND**		0.000447	**ND**		0.000492	**ND**	
Trichlorofluoromethane	75-69-4	130	25000	NE	**130**	**0**	0.000797	**ND**		0.000592	**ND**		0.000817	**ND**		0.000898	**ND**	
Vinyl Chloride	75-01-4	0.022	3.7	43	**0.022**	**0**	0.00181	**ND**		0.00134	**ND**		0.00185	**ND**		0.00204	**ND**	
Xylenes, Total	1330-20-7	120	6000	9400	**120**	**0**	0.000379	**ND**		0.000281	**ND**		0.000388	**ND**		0.000427	**ND**	

Remarks:

All concentrations in mg/Kg

GWP = Groundwater Protection Value ($^{GW}Soil_{Ing}$ 0.5-Acre PCL)

TSC = Total Soil Combined Value ($^{Tot}Soil_{Comb}$ 0.5-Acre PCL)

INH= Inhalation Value ($^{Air}Soil_{Inh-V}$ 0.5-Acre PCL)

RAL = Residential Assessment Level (Applicable TRRP Critical PCL)

SDL = Sample Detection Limit

ND = Not Detected; NA = Not Analyzed; NE = Not Established

J = Estimated value below the lowest calibration point. Confidence correlates with concentration.

TRRP PCLs Published: May 2023

Please see laboratory data sheets for additional detail

= Exceeds non-ingestion based PCL

= Exceeds ingestion based PCL

Table 2: Soil Results - Metals

Rebar Facility
4700 Singleton Blvd
Dallas, Texas

								Sample Point:	ARRRBR-Dal-01-S-1			ARRRBR-Dal-01-S-2			ARRRBR-Dal-02-S-1			ARRRBR-Dal-02-S-3			ARRRBR-Dal-03-S-1		
								Sample Date:	1/5/2010			1/5/2010			1/5/2010			1/5/2010			1/5/2010		
								Sample Interval:	1'			3'			1'			3'			0-1'		
Compound	**CAS**	**GWP**	**TSC**	**TSSBC**	**RBC**	**Tier 2**	**RAL**	**Max**	**SDL**	**Result**		**SDL**	**Result**		**SDL**	**Result**		**SDL**	**Result**		**SDL**	**Result**	
RCRA 8 METALS		**w/o MSD**	**w/ MSD**			**PCL**	**w/o MSD**																
Arsenic	7440-38-2	5	24	5.9	13.65	NA	**13.65**	**12.8**	0.149	**6.84**		0.209	**10.9**		0.176	**5.1**		0.188	**12.8**		0.177	**4.01**	
Barium	7440-39-3	440	8100	300	NE	NA	**440**	**124**	0.149	**64.5**		0.209	**108**		0.176	**57.8**		0.188	**62**		0.177	**89.2**	
Cadmium	7440-43-9	1.5	51	NE	NE	NA	**1.5**	**1.24**	0.068	**1.24**		0.095	**0.393**		0.08	**0.432**		0.086	**0.177**	J	0.081	**0.28**	
Chromium	7440-47-3	2400	27000	30	NE	NA	**2,400**	**108.0**	0.068	**17.9**		0.095	**48.9**		0.08	**11.4**		0.086	**23.6**		0.081	**10.2**	
Lead	7439-92-1	3	500	15	NE	70	**70**	**29.7**	0.181	**12**		0.254	**10.6**		0.213	**7.5**		0.228	**25.1**		0.215	**3.54**	
Selenium	7782-49-2	2.3	310	0.3	NE	NA	**2.3**	**3.52***	0.149	**0.389**	J	0.209	**ND**		0.176	**0.544**		0.188	**0.268**	J	0.177	**ND**	
Silver	7440-22-4	0.48	97	NE	NE	213.8	**97**	**0.895**	0.059	**0.723**		0.083	**0.152**	J	0.069	**0.895**		0.074	**ND**		0.07	**0.167**	J
Mercury (pH=6.8)	7439-97-6	2.1	8.3	0.04	NE	NA	**2.1**	**0.0137**	0.000909	**ND**		0.00117	**0.00392**		0.001	**0.00676**		0.00128	**0.0124**		0.00096	**ND**	

Remarks:

All concentrations in mg/Kg (other than SPLP [mg/L])

* This soil concentration was removed along with mill scale during a housekeeping effort in 2010 (see Greenstar Report provided in the VCP Application)

GWP = Groundwater Protection Value ($^{GW}Soil_{Ing}$ 0.5-Acre Residential PCL)

TSC = Total Soil Combined Value ($^{Tot}Soil_{Comb}$ 0.5-Acre Residential PCL)

TSSBC = Texas-Specific Soil Background Concentration

RBC= Regional Background Concentration

RAL = Residential Assessment Level (Applicable TRRP Critical PCL)

SDL = Sample Detection Limit

ND = Not Detected; NA = Not Analyzed; N E= Not Established

J = Estimated value below the lowest calibration point. Confidence correlates with concentration.

TRRP PCLs Published: May 2023

Please see laboratory data sheets for additional detail

= Exceeds non-ingestion based PCL

= Exceeds ingestion based PCL

Table 2: Soil Results - Metals

Rebar Facility
4700 Singleton Blvd
Dallas, Texas

									Sample Point:	ARRRBR-Dal-03-S-3			ARRRBR-Dal-04-S-1			ARRRBR-Dal-04-S-3			ARRRBR-Dal-05-S-1	
									Sample Date:	1/5/2010			1/5/2010			1/5/2010			1/5/2010	
									Sample Interval:	3'			0-1'			3'			1'	
Compound	**CAS**	**GWP**	**TSC**	**TSSBC**	**RBC**	**Tier 2**	**RAL**	**Max**	**SDL**	**Result**		**SDL**	**Result**		**SDL**	**Result**		**SDL**	**Result**	
RCRA 8 METALS		**w/o MSD**	**w/ MSD**			**PCL**	**w/o MSD**													
Arsenic	7440-38-2	5	24	5.9	13.65	NA	**13.65**	**12.8**	0.164	**7.03**		0.165	**7.59**		0.205	**10.1**		0.164	**4.92**	
Barium	7440-39-3	440	8100	300	NE	NA	**440**	**124**	0.164	**73.7**		0.165	**70.1**		0.205	**124**		0.164	**40.2**	
Cadmium	7440-43-9	1.5	51	NE	NE	NA	**1.5**	**1.24**	0.075	**0.373**		0.075	**0.365**		0.093	**0.441**		0.075	**1.01**	
Chromium	7440-47-3	2400	27000	30	NE	NA	**2,400**	**108.0**	0.075	**17.6**		0.075	**12.7**		0.093	**46.2**		0.075	**108**	
Lead	7439-92-1	3	500	15	NE	70	**70**	**29.7**	0.199	**16**		0.2	**10.3**		0.249	**29.7**		0.199	**9.1**	
Selenium	7782-49-2	2.3	310	0.3	NE	NA	**2.3**	**3.52***	0.164	**0.662**		0.165	**0.625**		0.205	**ND**		0.164	**3.52***	
Silver	7440-22-4	0.48	97	NE	NE	213.8	**97**	**0.895**	0.065	**0.533**		0.065	**0.595**		0.081	**ND**		0.065	**0.582**	
Mercury (pH=6.8)	7439-97-6	2.1	8.3	0.04	NE	NA	**2.1**	**0.0137**	0.00104	**0.00839**		0.0011	**0.0122**		0.0011	**0.0137**		0.000953	**0.00543**	

Remarks:

All concentrations in mg/Kg (other than SPLP [mg/L])

* This soil concentration was removed along with mill scale during a housekeeping effort in 2010 (see Greenstar Report provided in the VCP A

GWP = Groundwater Protection Value ($^{GW}Soil_{Ing}$ 0.5-Acre Residential PCL)

TSC = Total Soil Combined Value ($^{Tot}Soil_{Comb}$ 0.5-Acre Residential PCL)

TSSBC = Texas-Specific Soil Background Concentration

RBC= Regional Background Concentration

RAL = Residential Assessment Level (Applicable TRRP Critical PCL)

SDL = Sample Detection Limit

ND = Not Detected; NA = Not Analyzed; N E= Not Established

J = Estimated value below the lowest calibration point. Confidence correlates with concentration.

TRRP PCLs Published: May 2023

Please see laboratory data sheets for additional detail

= Exceeds non-ingestion based PCL

= Exceeds ingestion based PCL

Table 3: Groundwater Results - VOCs and TPH

Rebar Facility
4700 Singleton Blvd
Dallas, Texas

					Sample Point:	ARRRBR-Dal-01-GW		ARRRBR-Dal-03-GW		ARRRBR-Dal-04-GW	
					Sample Date:	1/5/2010		1/5/2010		1/5/2010	
Compound	CAS	GWP	INH	RAL	Max	SDL	Result	SDL	Result	SDL	Result
VOLATILE ORGANIC COMPOUNDS		w/o MSD	w/ MSD	w/o MSD							
1,1,1,2-Tetrachloroethane	630-20-6	0.035	110	0.035	0	0.001	ND	0.001	ND	0.001	ND
1,1,1-Trichloroethane	71-55-6	0.2	41000	0.2	0	0.001	ND	0.001	ND	0.001	ND
1,1,2,2-Tetrachloroethane	79-34-5	0.0046	NE	0.0046	0	0.001	ND	0.001	ND	0.001	ND
1,1,2-Trichloroethane	79-00-5	0.005	80	0.005	0	0.001	ND	0.001	ND	0.001	ND
1,1,2-Trichlorotrifluoroethane	76-13-1	730	1500	730	0	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	75-34-3	4.9	43000	4.9	0.00991	0.001	ND	0.001	0.002	0.001	ND
1,1-Dichloroethene	75-35-4	0.007	1700	0.007	0.0113	0.001	ND	0.001	ND	0.001	ND
1,1-Dichloropropene	563-58-6	0.0091	19	0.0091	0	0.001	ND	0.001	ND	0.001	ND
1,2,3-Trichlorobenzene	87-61-6	0.073	130	0.073	0	0.001	ND	0.001	ND	0.001	ND
1,2,3-Trichloropropane	96-18-4	0.00003	32	0.00003	0	0.001	ND	0.001	ND	0.001	ND
1,2,4-Trichlorobenzene	120-82-1	0.07	160	0.07	0	0.001	ND	0.001	ND	0.001	ND
1,2,4-Trimethylbenzene	95-63-6	0.83	4900	0.83	0	0.001	ND	0.001	ND	0.001	ND
1,2-Dibromo-3-Chloropropane	96-12-8	0.0002	0.62	0.0002	0	0.001	ND	0.001	ND	0.001	ND
1,2-Dibromoethane	106-93-4	0.00005	76	0.00005	0	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	95-50-1	0.6	1200	0.6	0.0448	0.001	ND	0.001	0.001	0.001	ND
1,2-Dichloroethane	107-06-2	0.005	250	0.005	0	0.001	ND	0.001	ND	0.001	ND
1,4-Dioxane	123-91-1	0.0091	7700	0.0091	0.0637	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	78-87-5	0.005	120	0.005	0	0.001	ND	0.001	ND	0.001	ND
1,3,5-Trimethylbenzene	108-67-8	0.83	3800	0.83	0	0.001	ND	0.001	ND	0.001	ND
1,3-Dichlorobenzene	541-73-1	0.73	190	0.73	0.00146	0.001	ND	0.001	ND	0.001	ND
1,3-Dichloropropane	142-28-9	0.0091	250	0.0091	0	0.001	ND	0.001	ND	0.001	ND
1,4-Dichlorobenzene	106-46-7	0.075	17000	0.075	0.0173	0.001	ND	0.001	ND	0.001	ND
2,2-Dichloropropane	594-20-7	0.013	57	0.013	0	0.001	ND	0.001	ND	0.001	ND
2-Butanone (MEK)	78-93-3	15	1000000	15	0.0508	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	95-49-8	0.49	24000	0.49	0	0.001	ND	0.001	ND	0.001	ND
2-Hexanone	591-78-6	1.2	12000	1.2	0	NA	NA	NA	NA	NA	NA
4-Chlorotoluene	106-43-4	0.49	NE	0.49	0	0.001	ND	0.001	ND	0.001	ND
4-Methyl-2-Pentanone (Mibk)	108-10-1	2	670000	2	0	NA	NA	NA	NA	NA	NA
Acetone	67-64-1	22	1000000	22	0	NA	NA	NA	NA	NA	NA
Acrolein	107-02-8	0.012	9500	0.012	0	NA	NA	NA	NA	NA	NA
Acrylonitrile	107-13-1	0.0017	58	0.0017	0	NA	NA	NA	NA	NA	NA
Benzene	71-43-2	0.005	180	0.005	0.000503	0.001	ND	0.001	ND	0.001	ND
Bromobenzene	108-86-1	0.2	2300	0.2	0	0.001	ND	0.001	ND	0.001	ND
Bromochloromethane	74-97-5	0.98	NE	0.98	0	0.001	ND	0.001	ND	0.001	ND
Bromodichloromethane	75-27-4	0.08	0	0	0	0.001	ND	0.001	ND	0.001	ND
Bromoform	75-25-2	0.08	5100	0.08	0	0.001	ND	0.001	ND	0.001	ND
Bromomethane	74-83-9	0.034	36	0.034	0	NA	NA	NA	NA	NA	NA
Carbon disulfide	75-15-0	2.4	4900	2.4	0	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	56-23-5	0.005	20	0.005	0	0.001	ND	0.001	ND	0.001	ND
Chlorobenzene	108-90-7	0.1	1200	0.1	0.0777	0.001	ND	0.001	ND	0.001	ND
Chloroethane	75-00-3	9.8	120000	9.8	0	0.002	ND	0.002	ND	0.002	ND
Chloroform	67-66-3	0.08	20	0.08	0	0.001	ND	0.001	ND	0.001	ND
Chloromethane	74-87-3	0.07	36	0.07	0	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	156-59-2	0.07	1200	0.07	0.621	0.001	ND	0.001	0.054	0.001	0.002
cis-1,3-Dichloropropene	10061-01-5	0.0017	690	0.0017	0	0.001	ND	0.001	ND	0.001	ND
Dibromochloromethane	124-48-1	0.08	NE	0.08	0	0.001	ND	0.001	ND	0.001	ND
Dibromomethane	74-95-3	0.12	240	0.12	0	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	75-71-8	4.9	60	4.9	0	0.001	ND	0.001	ND	0.001	ND
Ethylbenzene	100-41-4	0.7	30000	0.7	0.001	0.001	0.001	0.001	ND	0.001	ND
Hexachlorobutadiene	87-68-3	0.012	8.9	0.012	0	0.001	ND	0.001	ND	0.001	ND
Isopropylbenzene	98-82-8	2.4	4400	2.4	0	0.001	ND	0.001	ND	0.001	ND
Methyl Tert-Butyl Ether	1634-04-4	0.24	4000	0.24	0	0.001	ND	0.001	ND	0.001	ND
Methylene Chloride	75-09-2	0.005	21000	0.005	0	0.001	ND	0.001	ND	0.001	ND
Naphthalene	91-20-3	0.49	320	0.49	0	0.002	ND	0.002	ND	0.002	ND
n-Butylbenzene	104-51-8	1.2	NE	1.2	0	0.001	ND	0.001	ND	0.001	ND
n-Propylbenzene	103-65-1	0.98	6000	0.98	0	0.001	ND	0.001	ND	0.001	ND
p-Isopropyltoluene	99-87-6	2.4	NE	2.4	0	0.001	ND	0.001	ND	0.001	ND
sec-Butylbenzene	135-98-8	0.98	NE	0.98	0	0.001	ND	0.001	ND	0.001	ND
Styrene	100-42-5	0.1	15000	0.1	0	0.001	ND	0.001	ND	0.001	ND
tert-Butylbenzene	98-06-6	0.98	NE	0.98	0	0.001	ND	0.001	ND	0.001	ND
Tetrachloroethene	127-18-4	0.005	500	0.005	0.0226	0.001	ND	0.001	0.02	0.001	ND
Toluene	108-88-3	1	64000	1	0.04	0.001	0.04	0.001	0.001	0.001	0.002
trans-1,2-Dichloroethene	156-60-5	0.1	770	0.1	0.0179	0.001	ND	0.001	ND	0.001	ND
trans-1,3-Dichloropropene	10061-02-6	0.0091	190	0.0091	0	0.001	ND	0.001	ND	0.001	ND
Trichloroethene	79-01-6	0.005	24	0.005	1.34	0.001	0.002	0.001	0.019	0.001	0.031
Trichlorofluoromethane	75-69-4	7.3	NE	7.3	0	0.001	ND	0.001	ND	0.001	ND
Vinyl Chloride	75-01-4	0.002	3.8	0.002	0.00786	0.001	ND	0.001	0.001	0.001	ND
Xylenes, Total	1330-20-7	10	10000	10	0.006	0.002	0.006	0.002	ND	0.002	ND
Cyclohexane	110-82-7	120	5900	120	0.00156	NA	NA	NA	NA	NA	NA
TOTAL PETROLEUM HYDROCARBONS											
TPH (C6 - C12)	NL	0.98	1800	0.98	0	0.92	ND	0.89	ND	0.99	ND
TPH (C12 - C28)	NL	0.98	7500	0.98	0	1.32	ND	1.28	ND	1.25	ND
TPH (C28 - C35)	NL	0.98	7500	0.98	0	1.4	ND	1.35	ND	1.3	ND
TPH Total (C6 - C35)	NL	NE	NE	0.98	0	NE	ND	NE	ND	NE	ND

Remarks:

All concentrations presented in mg/L

GWP = Groundwater Protection Value (${}^{GW}GW_{ing}$ 0.5-Acre PCL)

INH = Inhalation-based Value (${}^{Air}GW_{inh,v}$ 0.5-Acre PCL)

RAL = Residential Assessment Level (Applicable TRRP Critical PCL)

SDL = Sample Detection Limit

ND = Not Detected; NA=Not Analyzed; NE = Not Established

J= Estimated value below the lowest calibration point. Confidence correlates with concentration.

TRRP PCLs Published: May 2023

= Exceeds non-ingestion PCL

= Exceeds ingestion based PCL

Table 3: Groundwater Results - VOCs and TPH

Rebar Facility
4700 Singleton Blvd
Dallas, Texas

					Sample Point:	PMW-1			PMW-2			PMW-3			PMW-4		
					Sample Date:	5/23/2023			5/23/2023			5/23/2023			5/23/2023		
Compound	CAS	GWP	INH	RAL	Max	SDL	Result		SDL	Result		SDL	Result		SDL	Result	
VOLATILE ORGANIC COMPOUNDS		w/o MSD	w/ MSD	w/o MSD													
1,1,1,2-Tetrachloroethane	630-20-6	0.035	110	0.035	0	0.00144	ND		0.00144	ND		0.00144	ND		0.00144	ND	
1,1,1-Trichloroethane	71-55-6	0.2	41000	0.2	0	0.00145	ND		0.00145	ND		0.00145	ND		0.00145	ND	
1,1,2,2-Tetrachloroethane	79-34-5	0.0046	NE	0.0046	0	0.00171	ND		0.00171	ND		0.00171	ND		0.00171	ND	
1,1,2-Trichloroethane	79-00-5	0.005	80	0.005	0	0.000747	ND		0.000747	ND		0.000747	ND		0.000747	ND	
1,1,2-Trichlorotrifluoroethane	76-13-1	730	1500	730	0	0.001	ND		0.001	ND		0.001	ND		0.001	ND	
1,1-Dichloroethane	75-34-3	4.9	43000	4.9	0.00991	0.00103	0.00888		0.00103	ND		0.00103	ND		0.00103	0.00991	
1,1-Dichloroethene	75-35-4	0.007	1700	0.007	0.0113	0.000575	0.00462		0.000575	ND		0.000575	ND		0.000575	0.0113	
1,1-Dichloropropene	563-58-6	0.0091	19	0.0091	0	0.00152	ND		0.00152	ND		0.00152	ND		0.00152	ND	
1,2,3-Trichlorobenzene	87-61-6	0.073	130	0.073	0	0.000735	ND		0.000735	ND		0.000735	ND		0.000735	ND	
1,2,3-Trichloropropane	96-18-4	0.00003	32	0.00003	0	0.00117	ND		0.00117	ND		0.00117	ND		0.00117	ND	
1,2,4-Trichlorobenzene	120-82-1	0.07	160	0.07	0	0.000593	ND		0.000593	ND		0.000593	ND		0.000593	ND	
1,2,4-Trimethylbenzene	95-63-6	0.83	4900	0.83	0	0.00099	ND		0.00099	ND		0.00099	ND		0.00099	ND	
1,2-Dibromo-3-Chloropropane	96-12-8	0.0002	0.62	0.0002	0	0.0013	ND		0.0013	ND		0.0013	ND		0.0013	ND	
1,2-Dibromoethane	106-93-4	0.00005	76	0.00005	0	0.000631	ND		0.000631	ND		0.000631	ND		0.000631	ND	
1,2-Dichlorobenzene	95-50-1	0.6	1200	0.6	0.0448	0.000603	0.0448		0.000603	ND		0.000603	ND		0.000603	0.013	
1,2-Dichloroethane	107-06-2	0.005	250	0.005	0	0.00153	ND		0.00153	ND		0.00153	ND		0.00153	ND	
1,4-Dioxane	123-91-1	0.0091	7700	0.0091	0.0637	0.01	0.0637		0.01	ND		0.01	ND		0.01	ND	
1,2-Dichloropropane	78-87-5	0.005	120	0.005	0	0.00155	ND		0.00155	ND		0.00155	ND		0.00155	ND	
1,3,5-Trimethylbenzene	108-67-8	0.83	3800	0.83	0	0.000703	ND		0.000703	ND		0.000703	ND		0.000703	ND	
1,3-Dichlorobenzene	541-73-1	0.73	190	0.73	0.00146	0.00108	0.00146	J	0.00108	ND		0.00108	ND		0.00108	ND	
1,3-Dichloropropane	142-28-9	0.0091	250	0.0091	0	0.00178	ND		0.00178	ND		0.00178	ND		0.00178	ND	
1,4-Dichlorobenzene	106-46-7	0.075	17000	0.075	0.0173	0.000637	0.0173		0.000637	ND		0.000637	ND		0.000637	0.00144	J
2,2-Dichloropropane	594-20-7	0.013	57	0.013	0	0.002	ND		0.002	ND		0.002	ND		0.002	ND	
2-Butanone (MEK)	78-93-3	15	1000000	15	0.0508	0.00453	0.0177	J	0.00453	ND		0.00453	ND		0.00453	0.0508	
2-Chlorotoluene	95-49-8	0.49	24000	0.49	0	0.000447	ND		0.000447	ND		0.000447	ND		0.000447	ND	
2-Hexanone	591-78-6	1.2	12000	1.2	0	0.0212	ND		0.0212	ND		0.0212	ND		0.0212	ND	
4-Chlorotoluene	106-43-4	0.49	NE	0.49	0	0.000922	ND		0.000922	ND		0.000922	ND		0.000922	ND	
4-Methyl-2-Pentanone (Mibk)	108-10-1	2	670000	2	0	0.0196	ND		0.0196	ND		0.0196	ND		0.0196	ND	
Acetone	67-64-1	22	1000000	22	0	0.0213	ND		0.0213	ND		0.0213	ND		0.0213	ND	
Acrolein	107-02-8	0.012	9500	0.012	0	0.0231	ND		0.0231	ND		0.0231	ND		0.0231	ND	
Acrylonitrile	107-13-1	0.0017	58	0.0017	0	0.0078	ND		0.0078	ND		0.0078	ND		0.0078	ND	
Benzene	71-43-2	0.005	180	0.005	0.000503	0.000496	0.000503	J	0.000496	ND		0.000496	ND		0.000496	ND	
Bromobenzene	108-86-1	0.2	2300	0.2	0	0.000525	ND		0.000525	ND		0.000525	ND		0.000525	ND	
Bromochloromethane	74-97-5	0.98	NE	0.98	0	0.00025	NA		0.00025	ND		0.00025	ND		0.00025	ND	
Bromodichloromethane	75-27-4	0.08	0	0	0	0.000696	ND		0.000696	ND		0.000696	ND		0.000696	ND	
Bromoform	75-25-2	0.08	5100	0.08	0	0.00133	ND		0.00133	ND		0.00133	ND		0.00133	ND	
Bromomethane	74-83-9	0.034	36	0.034	0	0.00188	ND		0.00188	ND		0.00188	ND		0.00188	ND	
Carbon disulfide	75-15-0	2.4	4900	2.4	0	0.000559	NA		0.000559	ND		0.000559	ND		0.000559	ND	
Carbon Tetrachloride	56-23-5	0.005	20	0.005	0	0.00126	ND		0.00126	ND		0.00126	ND		0.00126	ND	
Chlorobenzene	108-90-7	0.1	1200	0.1	0.0777	0.000945	0.0777		0.000945	ND		0.000945	ND		0.000945	0.00598	
Chloroethane	75-00-3	9.8	120000	9.8	0	0.00145	ND		0.00145	ND		0.00145	ND		0.00145	ND	
Chloroform	67-66-3	0.08	20	0.08	0	0.00121	ND		0.00121	ND		0.00121	ND		0.00121	ND	
Chloromethane	74-87-3	0.07	36	0.07	0	0.000941	ND		0.000941	ND		0.000941	ND		0.000941	ND	
cis-1,2-Dichloroethene	156-59-2	0.07	1200	0.07	0.621	0.00796	0.204		0.00796	ND		0.00796	ND		0.00796	0.621	
cis-1,3-Dichloropropene	10061-01-5	0.0017	690	0.0017	0	0.000885	ND		0.000885	ND		0.000885	ND		0.000885	ND	
Dibromochloromethane	124-48-1	0.08	NE	0.08	0	0.00175	NA		0.00175	ND		0.00175	ND		0.00175	ND	
Dibromomethane	74-95-3	0.12	240	0.12	0	0.00104	ND		0.00104	ND		0.00104	ND		0.00104	ND	
Dichlorodifluoromethane	75-71-8	4.9	60	4.9	0	0.000833	ND		0.000833	ND		0.000833	ND		0.000833	ND	
Ethylbenzene	100-41-4	0.7	30000	0.7	0.001	0.000878	ND		0.000878	ND		0.000878	ND		0.000878	ND	
Hexachlorobutadiene	87-68-3	0.012	8.9	0.012	0	0.00119	ND		0.00119	ND		0.00119	ND		0.00119	ND	
Isopropylbenzene	98-82-8	2.4	4400	2.4	0	0.00118	ND		0.00118	ND		0.00118	ND		0.00118	ND	
Methyl Tert-Butyl Ether	1634-04-4	0.24	4000	0.24	0	0.00268	ND		0.00268	ND		0.00268	ND		0.00268	ND	
Methylene Chloride	75-09-2	0.005	21000	0.005	0	0.000829	ND		0.000829	ND		0.000829	ND		0.000829	ND	
Naphthalene	91-20-3	0.49	320	0.49	0	0.000927	ND		0.000927	ND		0.000927	ND		0.000927	ND	
n-Butylbenzene	104-51-8	1.2	NE	1.2	0	0.000845	ND		0.000845	ND		0.000845	ND		0.000845	ND	
n-Propylbenzene	103-65-1	0.98	6000	0.98	0	0.00165	ND		0.00165	ND		0.00165	ND		0.00165	ND	
p-Isopropyltoluene	99-87-6	2.4	NE	2.4	0	0.00105	ND		0.00105	ND		0.00105	ND		0.00105	ND	
sec-Butylbenzene	135-98-8	0.98	NE	0.98	0	0.000773	ND		0.000773	ND		0.000773	ND		0.000773	ND	
Styrene	100-42-5	0.1	15000	0.1	0	0.00127	ND		0.00127	ND		0.00127	ND		0.00127	ND	
tert-Butylbenzene	98-06-6	0.98	NE	0.98	0	0.000808	ND		0.000808	ND		0.000808	ND		0.000808	ND	
Tetrachloroethene	127-18-4	0.005	500	0.005	0.0226	0.0009	ND		0.0009	ND		0.0009	ND		0.0009	0.0226	
Toluene	108-88-3	1	64000	1	0.04	0.00161	ND		0.00161	ND		0.00161	ND		0.00161	ND	
trans-1,2-Dichloroethene	156-60-5	0.1	770	0.1	0.0179	0.000903	0.00496	J	0.000903	ND		0.000903	ND		0.000903	0.0179	
trans-1,3-Dichloropropene	10061-02-6	0.0091	190	0.0091	0	0.00195	ND		0.00195	ND		0.00195	ND		0.00195	ND	
Trichloroethene	79-01-6	0.005	24	0.005	1.34	0.00169	0.00787		0.00169	0.00644		0.00169	ND		0.00169	1.34	
Trichlorofluoromethane	75-69-4	7.3	NE	7.3	0	0.00124	ND		0.00124	ND		0.00124	ND		0.00124	ND	
Vinyl Chloride	75-01-4	0.002	3.8	0.002	0.00786	0.000592	0.00119		0.000592	ND		0.000592	ND		0.000592	0.00786	
Xylenes, Total	1330-20-7	10	10000	10	0.006	0.00113	ND		0.00113	ND		0.00113	ND		0.00113	ND	
Cyclohexane	110-82-7	120	5900	120	0.00156	0.001	ND		0.001	ND		0.001	ND		0.001	0.00156	J
TOTAL PETROLEUM HYDROCARBONS																	
TPH (C6 - C12)	NL	0.98	1800	0.98	0												
TPH (C12 - C28)	NL	0.98	7500	0.98	0												
TPH (C28 - C35)	NL	0.98	7500	0.98	0												
TPH Total (C6 - C35)	NL	NE	NE	0.98	0												

Remarks:

All concentrations presented in mg/L

GWP = Groundwater Protection Value ($^{GW}GW_{ing}$ 0.5-Acre PCL)

INH = Inhalation-based Value ($^{Air}GW_{inh,v}$ 0.5-Acre PCL)

RAL = Residential Assessment Level (Applicable TRRP Critical PCL)

SDL = Sample Detection Limit

ND = Not Detected; NA=Not Analyzed; NE = Not Established

J= Estimated value below the lowest calibration point. Confidence correlates with concentration.

TRRP PCLs Published: May 2023

= Exceeds non-ingestion PCL

= Exceeds ingestion based PCL

Table 4: Groundwater Elevation Data

Rebar Facility

4700 Singleton Blvd

Dallas, Texas

Well	Measurement Date	Total Depth (feet below TOC)	Top of Casing Elevation	Depth to Water	Groundwater Elevation
PMW-1	5.23.23	20	94.705	16.51	78.20
PMW-2	5.23.23	20	96.09	18.01	78.08
PMW-3	5.23.23	20	96.41	15.32	81.09
PMW-4	5.23.23	20	95.86	17.48	78.38

Notes

All measurements are in feet.

Monitor wells were surveyed to a common datum on May 23, 2023

Section 9 – Plume Characteristics

A statement as to whether the plume of contamination stable, expanding, or contracting with the basis for that statement. If this information is not known, a statement of why the information is not known.

1,1-dichloroethene, cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, vinyl chloride, and 1,4-dioxane PCLE Zones in groundwater were identified at the Site. These releases are suspected to be from an off-site source.

The groundwater PCLE Zone maps for the above compounds are provided in Section 4 as Figures 4 and Figure 5.

None of the plumes appear to be fully delineated nor confined within the Site boundaries and therefore are not evaluated for stability. Additional monitoring would be needed to definitively confirm if the individual plumes are stable, expanding, or contracting.

Section 10 – Residential Assessment Levels without MSD

A statement as to whether contamination on and off the designated property without a municipal setting designation exceeds a residential assessment level as defined in the Texas Risk Reduction Program, if known, and the basis for that statement.

Based on available analytical results of groundwater beneath the designated property, groundwater concentrations of 1,1-dichloroethene, cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, vinyl chloride, and 1,4-dioxane exceed Residential Assessment Levels without an MSD on the Site. Delineation off-site was not conducted. However, groundwater concentrations of 1,1-dichloroethene, cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, vinyl chloride, and 1,4-dioxane are anticipated to exceed RALs without an MSD off-site. No soil PCLE Zones were identified at the Site.

Information concerning the identified release was submitted to the TCEQ in February 2024 as part of the VCP program. Please refer to Section 4 for depiction of the RAL/PCL exceedances.

Section 11 – Residential Assessment Levels with MSD

A statement as to whether contamination on and off the designated property with a municipal setting designation will exceed a residential assessment level as defined in the Texas Risk Reduction Program, if known, and the basis for that statement.

Based on available analytical results of groundwater, there are no COCs that exceed or are expected to exceed Residential Assessment Levels with an MSD on and off the Designated Property.

Section 12 – Source Areas

Identification of the points of origin of the contamination and the persons responsible for the contamination, to the extent known.

1,1-dichloroethene, cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, vinyl chloride, and 1,4-dioxane PCLE Zones in groundwater were identified at the Site. These releases are suspected to be from an off-site source.

Modern reviewed available regulatory files related to the off-site facilities during due diligence activities. Significant chlorinated solvent plumes in groundwater have been noted at the off-site property to the west (Koch-Glitsch, VCP 1277), which were addressed using an MSD (MSD No. 21). Additionally, a sliver of the off-site property south of the Site (United Concrete Pipe) was entered into the VCP (VCP 331/332) due to the identification of elevated chlorinated solvents in groundwater. The United Concrete Pipe VCP property was eventually withdrawn from the VCP and entered into the TCEQ Innocent Owner/Operator (IOP) when it was determined the solvents were from an off-site source. Review of the IOP files related to the United Concrete Pipe facility indicated that several monitor wells were installed within Vinson Street (approximately 380-390 feet south of the Site) and exhibited elevated TCE (up to 3.38 mg/L), PCE (up to 0.21 mg/L), cis-1,2-dichloroethene (up to 4.58 mg/L), and vinyl chloride (up to 0.189 mg/L) concentrations above the default TRRP RALs. Groundwater flow in this area was reported to the north and northwest (towards the Site) and suggests the chlorinated solvent concentrations may be originating from the various industrial and chemical companies east of Vinson Street. The TCEQ issued an Innocent Owner/Operator Certificate (IOC) for the off-site United Concrete Pipe property in a letter dated August 22, 2000.

The groundwater PCLE Zone maps are provided as Figures 4 and Figure 5, in Section 4.

Section 13 – Regulatory Actions

A description of any environmental regulatory actions that have been taken within the past five years in connection with the designated property, to the extent known.

The property located at 4700 Singleton Blvd was formally accepted into the TCEQ VCP on October 10, 2023 and has been assigned VCP Facility ID No. 3305. A copy of the VCP acceptance letter is included in this section.

According to the TCEQ Central Registry records, the SIC codes associated with the Site are 3449 (miscellaneous structural metal work) and 5051 (metals service centers and offices). Three (3) expired and/or cancelled stormwater permits are the only regulatory listings associated with the Site.

The applicant is not aware of other regulatory actions within the past five years in connection with the designated property.

Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Bobby Janecka, *Commissioner*
Kelly Keel, *Interim Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

October 10, 2023

Mr. Keeson Martin, Agent
GoodRe Singleton Investments, LLC
15640 Quorum Drive
Addison, Texas 75001 – 3338

Via email

Re: Rebar Facility Site, located at 4700 Singleton Blvd, Dallas, Dallas County, TX; Voluntary Cleanup Program (VCP) No. 3305.; Customer No. CN606186195; Regulated Entity No. RN105626261

Dear Mr. Martin:

The Texas Commission on Environmental Quality (TCEQ) has received the Voluntary Cleanup Program Application submitted pursuant to §361.604 of the Texas Solid Waste Disposal Act for assistance and review of site investigation and cleanup activities for the above referenced site. After careful review, the application is determined to be administratively complete, and is eligible for the VCP. Enclosed for your records is a signed copy of the VCP Agreement. Mr. Joshua Baudoin is the assigned project manager for the site. Based on the VCP Agreement submittal schedule, the Affected Property Assessment Report is due on February 1, 2024. Quarterly Status Reports are due on the 15th of the month following each calendar quarter beginning December 15, 2023.

Future submittals should be mailed to the TCEQ, VCP-CA Section, mail code MC-221, at the letterhead address. Please provide one paper copy and one electronic copy (on USB or disc) of all submittals. Note that the electronic and hard copies should be identical, complete copies. A Correspondence ID Form (TCEQ Form 20428) must accompany each document submitted to the Remediation Division, and should be affixed to the front of your submittal. The Correspondence ID Form helps ensure that your documents are identified correctly and are routed to the applicable program for a timely response. You may contact Mr. Joshua Baudoin with any questions at Joshua.Baudoin@tceq.texas.gov or (512) 239-2032.

Sincerely,

Richard Scharlach, Team Leader
VCP-CA Section
Remediation Division

cc: Damon L. Johnson, PG. Modern Geosciences, via email.
Erin Gorman, Waste Section Manager, TCEQ Region 4 Office, Dallas

Section 14 - State or Federal Registrations or Permits

A listing of all existing state of U.S. Environmental Protection Agency registrations, permits, and identification numbers that apply to the designated property.

The designated property is currently pursuing closure within the Texas VCP (VCP No. 3305). A copy of the VCP acceptance letter is attached in Section 13.

Section 15 - Regulatory Status

A statement as to whether the designated property has been submitted to the Texas Voluntary Cleanup Program (Section 361.601 of the Texas Health and Safety Code) or similar state or federal program, and a description of the designated property's status in the program.

The property located at 4700 Singleton Blvd was formally accepted into the TCEQ VCP on October 10, 2023 and has been assigned VCP Facility ID No. 3305. The Project Manager for the VCP Site is Mr. Joshua Baudoin. An Affected Property Assessment Report (APAR) was submitted to the TCEQ in February 2024 and was subsequently approved by the agency in a letter dated June 25, 2024. The Applicant plans to obtain a VCP Certificate of Completion (COC) for the property supported by a Municipal Setting Designation. A copy of the VCP acceptance letter is included in Section 13 of this report.

Section 16 – Summary of Environmental Corrective Actions

A summary of any environmental site assessment reports filed with the TCEQ regarding any site investigations or response actions that are planned, ongoing, or completed related to the designated property.

Investigation Summary

The initial Phase I ESA performed by Leigh in October 1998 did not identify any RECs in connection with the Site.

<u>December 2009-January 2010</u>
The Phase I ESA performed by AECOM in December 2009 only identified two (2) off-site RECs including the RSR Smelter facility (EPA NPL facility) and historic auto stations across Singleton Boulevard north of the property. It should be noted that the RSR Smelter facility should not be considered a REC based on Modern's review as the Site is located within Operable Unit 1 which has been considered suitable for residential use. AECOM's investigation included the advancement of four (4) soil borings (ARRRBR-Dal-01 through ARRRBR-Dal-04) to depths ranging from 20 to 24 feet. An additional soil sample (ARRRBR-Dal-05) was collected from the discolored soils along the rail spur inside the building. Mill scale that had accumulated along the rail spur within the building was removed from that area by Green Star Environmental in May 2010 as part of a "housekeeping" effort. A total of nine (9) soil samples were collected and analyzed for RCRA 8 Metals. Three (3) of the soil borings (ARRRBR-Dal-01, ARRRBR-Dal-03, and ARRRBR-Dal-04) were converted to temporary monitor wells. Groundwater samples collected from the temporary monitor wells were analyzed for VOCs and TPH.

The soil samples collected exhibited detections of arsenic (up to 12.8 mg/Kg), lead (up to 25.1 mg/Kg), silver (up to 0.895 mg/Kg), and selenium (up to 3.52 mg/Kg) above their respective default TRRP RALs. The soil sample exhibiting a concentration for selenium (ARRBR-Dal-05-S-1) above its respective TRRP RAL was removed along with mill scale during a housekeeping effort in 2010.

Modern performed a statistical evaluation of the arsenic concentrations reported in soil samples collected at the Site to evaluate whether the results are potentially representative of background conditions. The data set used to perform the statistical evaluation includes the 1-3' intervals collected from soil borings ARRRBR-Dal-01-S-1, ARRRBR-Dal-01-S-2, ARRRBR-Dal-02-S-1, ARRRBR-Dal-02-S-3, ARRRBR-Dal-03-S-1, ARRRBR-Dal-03-S-3, and ARRRBR-Dal-04-S-1, ARRRBR-Dal-04-S-3, and ARRRBR-Dal-05-S-1. The mean and standard deviation were determined to calculate a coefficient of variance (CV) to evaluate whether the data is normally distributed. The CV calculated for arsenic was 0.39, indicating a normal data distribution (i.e. less than 1). The data set was then further statistically evaluated using an Upper Confidence Limit (UCL), Upper Prediction Limit (UPL), and Upper Tolerance Limit (UTL). For this evaluation, these estimators were calculated using a one-tailed test of the 95% confidence interval from the mean. The UCL represents the most conservative demonstration while the UTL represents the most inclusive demonstration, but all are useful tools in understanding potential background concentrations and full data distribution. Modern understands the TCEQ generally prefers the use of a 95% UPL to estimate

representative background values, which will typically be a value between the 95% UCL and 95% UTL. However, comparison to the 95% UTL has also been acceptable to the TCEQ in Modern's experience.

The arsenic concentrations comprising the sample data set ranged from 4.01 mg/kg to 12.8 mg/kg with a mean concentration of 7.73 mg/kg. The 95% UCL, 95% UPL, and 95% UTL for arsenic were calculated to be 9.6 mg/kg, 13.65 mg/kg, and 16.88 mg/kg, respectively. All the samples collected for arsenic from the 1-3' sample interval during this assessment exhibited concentrations below the calculated 95% UPL (13.65 mg/kg) and appear to be representative of anthropogenic background. A statistical background evaluation spreadsheet is provided.

The groundwater samples collected from ARRRBR-Dal-03 and ARRRBR-Dal-04 exhibited trichloroethene concentrations of 0.019 mg/L and 0.031 mg/L, respectively, which exceed the default TRRP RAL of 0.005 mg/L. Additionally, the groundwater sample collected from ARRRBR-Dal-03 exhibited a tetrachloroethene concentration of 0.02 mg/L, which exceeds the default TRRP RAL of 0.005 mg/L.

<u>April 2023-June 2023</u>

Vertex performed a Phase I ESA in April 2023 and only identified the chlorinated solvent impact to groundwater at the Site (as identified during the AECOM Phase II) as a REC**.** Based on a Phase I ESA performed by Vertex in April 2023, no significant storage or use of chemicals was noted other than a few 55-gallon drums of used hydraulic oil and compressor oil which are disposed of by a local contractor. Additionally, Vertex did not observe any drains, sumps, oil-water separators, or sand traps during site reconnaissance. Limited areas of stained concrete were noted by Vertex but were considered de minimis and likely from vehicle staining. Photos of the Site are provided in the Vertex Phase I ESA, which was included in the VCP Application submitted to the TCEQ. Vertex's investigation in June 2023 included the advancement of four (4) shallow borings (B-5 through B-8) and four (4) deep soil borings (SB-1/PMW-1 through B-4/PMW-4). The deep soil borings (PMW-1 through PMW-4) were converted to permanent monitor wells. The soil and groundwater samples collected at the Site were analyzed for VOCs.

The soil samples collected at the Site by Vertex did not exhibit detections of any VOCs above the default TRRP RALs.

The groundwater samples collected from monitor wells PMW-1, PMW-2, PMW-3, and PMW-4 exhibited detections of 1,1-dichloroethene (up to 0.0113 mg/L), cis-1,2-dichloroethene (up to 0.621 mg/L), tetrachloroethene (up to 0.0226 mg/L), trichloroethene (up to 1.34 mg/L), vinyl chloride (up to 0.00786 mg/L), and 1,4-dioxane (up to 0.0637 mg/L) above their respective default TRRP RALs.

Soil samples collected at the Site did not exhibit concentrations of COCs above the default TRRP RALs, calculated site-specific Tier 2 PCLs, or 95% UPL calculated to evaluate potential background conditions. 1,1-dichloroethene, cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, vinyl chloride, and 1,4-dioxane PCLE Zones in groundwater were identified. These releases are suspected to be from an off-site source.

All on-site soil and groundwater concentrations are below the applicable non-ingestion-based PCLs.

Additionally, a Soil Vapor Investigation was also performed by Vertex in June 2023 concurrent with the Phase II activities. One (1) soil-vapor point (SV-01) was installed within the northern portion of the on-site building. A soil gas sample was collected in a 1-Liter Summa cannister and analyzed for VOCs using EPA Method TO-15. No VOC concentrations were detected above their respective EPA Vapor Intrusion Screening Levels (VISLs) except for acrolein. Acrolein is not a COC associated with the Site and is a common laboratory artifact found within Summa cannisters. Vertex concluded in the report "there were no detections in soil-vapor that are considered indicative of a significant potential sub-slab source of VOCs within the on-site office area." A copy of the report was provided in the VCP Application for the Site previously submitted to the TCEQ.

The Vertex Phase I ESA report included a report titled "Stained Surficial Soil Removal" prepared by Green Star Environmental in May 2010. According to the report, mill scale mixed with soil in the area of ARRRBR-Dal-05-S-1 and the interior rail spur were removed as part of a housekeeping effort in 2010. The mill scale/soil mixture was placed in two (2) 55-gallon drums and transported off-site for disposal at Abilene Environmental Landfill. The area was replaced with "clean river rock" and "spread out to match the surrounding area grade." The report stated "subsequent observation by Green Star Environmental showed the materials to only be a surficial stain on soil and not appear to have migrated to any significant depth" and "therefore, the removal is not a remediation under the State of Texas programs but a removal for aesthetic reasons." A copy of the report was provided in the VCP Application for the Site previously submitted to the TCEQ.

Regulatory Information

According to the TCEQ Central Registry records, the SIC codes associated with the Site are 3449 (miscellaneous structural metal work) and 5051 (metals service centers and offices). Three (3) expired and/or cancelled stormwater permits are the only regulatory listings associated with the Site.

The Site located at 4700 Singleton Blvd in Dallas, Texas was formally accepted into the TCEQ VCP on October 10, 2023 and has been assigned VCP Facility ID No. 3305. The Project Manager for the VCP Site is Mr. Joshua Baudoin.

On January 5, 2024, a Drinking Water Survey Report (DWSR) was submitted to the TCEQ for VCP No. 3305 property. No threatened water wells were identified at the Site or surrounding properties within one-half mile. Additionally, on February 27, 2024 an APAR was submitted to the TCEQ and subsequently approved by the agency in a letter dated June 25, 2024.

The property owner engaged Modern to pursue an MSD ordinance with the City of Dallas to address the PCLE Zones noted in groundwater.

The Applicant plans to obtain a VCP Certificate of Completion (COC) for the property supported by a Municipal Setting Designation. A copy of the VCP acceptance letter is included in Section 13 of this report.

Section 17 - Proximity of Public Drinking Water Supply Systems

A statement as to whether any public drinking water supply system exists that satisfies the requirements of Chapter 341 of the Texas Health and Safety Code and that supplies or is capable of supplying drinking water to the designated property and property within one-half mile of the designated property and the identity of each.

The Dallas Water Utility (DWU) is a registered TCEQ Texas Public Water System meeting the requirements of Chapter 341 of the Texas Health and Safety Code and provides water to about 2.5 million people in Dallas and approximately 31 nearby communities, including the site and all properties within one-half mile. The DWU service area covers approximately 699 square miles, and DWU maintains approximately 5,024 miles of pipe, 21 ground and elevated storage tanks, 3 treatment plants, and 22 pumping stations. DWU's drinking water comes from six lakes, including Grapevine, Lewisville, Ray Roberts, Ray Hubbard, Lake Fork and Tawakoni.

Section 18 – Water Wells Within 5-Mile Radius

The name and address of each owner of a state-registered private water well within five miles of the designated property, along with:

A. a map showing the location of each well and, to the extent known, a notation of whether each well is used for potable water; and

B. a statement as to whether the applicant has provided notice to each owner in compliance with Section 361.805 of the Texas Health and Safety Code.

In accordance with Section 361.805 of the Texas Health and Safety Code, notice will be sent to each owner of state-registered private water wells identified within five miles of the designated property by the City of Dallas prior to the public meeting. Confirmation of notices sent by the City of Dallas will be forwarded to the TCEQ during the application process for that agency. No notices have been provided at this time.

A listing of the wells identified within 5 miles, map with well location and listing of reported well use and current notification status is provided in this section. One hundred and seventy-nine (179) registered wells were noted within five (5) miles of the MSD Boundary.

No state-registered water wells are recorded within one-half mile of the Site. A plotted "well" location is noted in the 0.5-mile well search, approximately 1,000 feet southwest of the Site. However, according to the State of Texas Well Report, the location corresponds to 18 soil gas monitor points (SGMPs) drilled to a depth of five (5) feet below grade in 2020. Additionally, based on receptor surveys completed by Modern in January 2024, no evidence of potential water wells was noted within 500' of the proposed MSD.

Prepared for:

MODERN GEOSCIENCES
P.O. Box 92083
Southlake, TX 76092

BANKS ENVIRONMENTAL DATA
A DIVISION OF THE BANKS GROUP

Water Well Report

Rebar Facility

4700 Singleton Blvd

Dallas, TX

PO #: 23249

ES-143592

Tuesday, March 5, 2024

Banks Environmental Data, Inc. - PO Box 12851 - Austin, TX 78711 - 800.531.5255 P - 512.478.1433 F
www.banksenvdata.com

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Geographic Summary

Location
TX
Target location is 0.01 square miles and has a 0.41 mile perimeter

Coordinates	
Longitude & Latitude in Degrees Minutes Seconds	NA
Longitude & Latitude in Decimal Degrees	NA
X and Y in UTM	NA

Elevation
NA

Zip Codes Searched	
Search Distance	**Zip Codes (historical zip codes included)**
Target Property	75212
5 miles	75211, 75050, 75212, 75060, 75051, 75208, 75247, 75236, 75220, 75219, 75061, 75224, 75039, 75201, 75233, 75235, 75203, 75207, 75062

Topos Searched	
Search Distance	**Topo Name**
Target Property	Irving (1982)
5 miles	Duncanville (1982), Irving (1982), Oak Cliff (1982), Dallas (1982)

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Summary Map - 5 Mile Buffer

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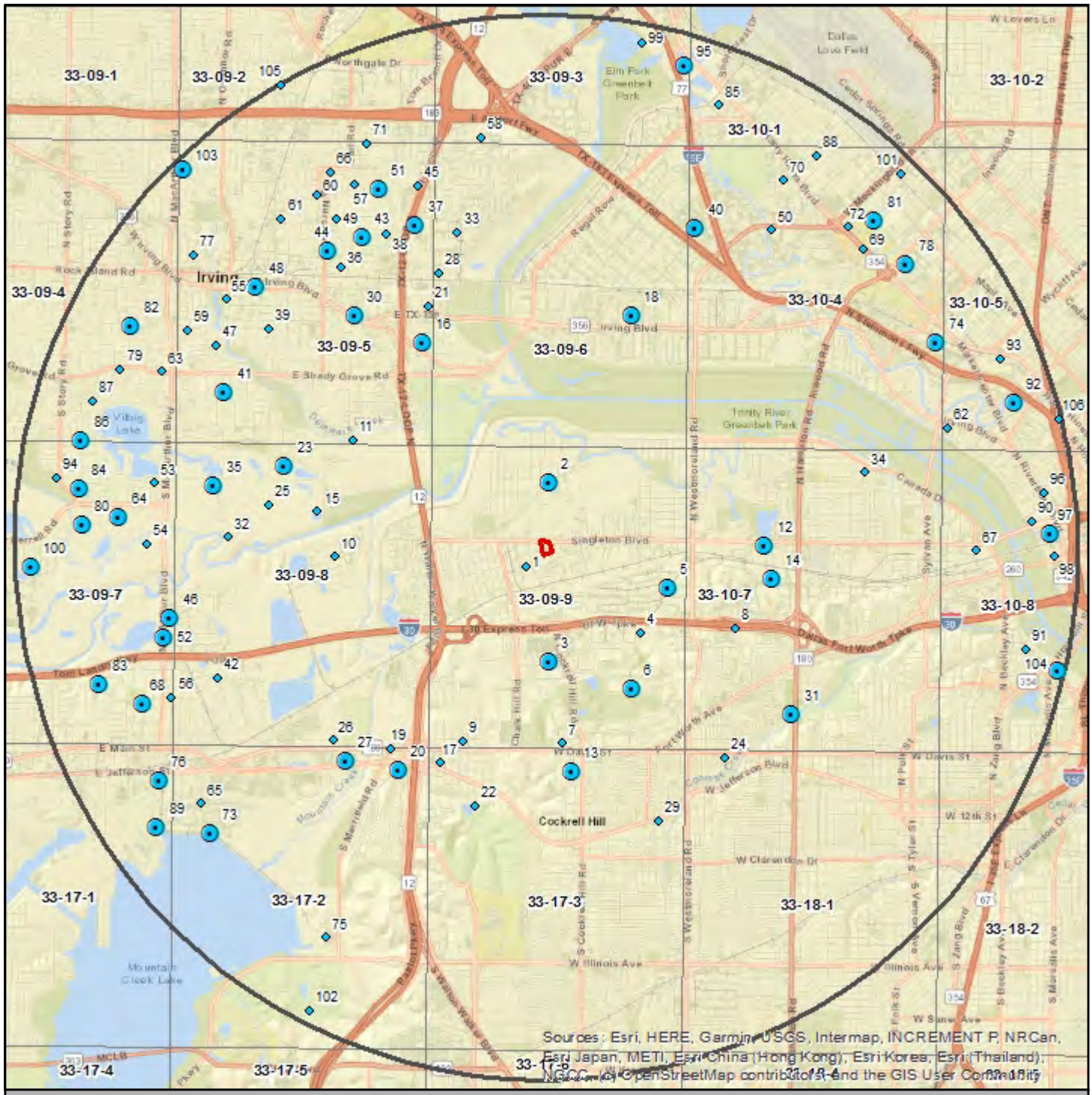

Rebar Facility

Well

Well Cluster

Target Property

Search Buffer

Texas Quad Index

1 : 87,000

1 inch = 1.373 miles
1 inch = 7250 feet
1 centimeter = 0.870 kilometers
1 centimeter = 870 meters

N

Lambert Conformal Conic Projection
1983 North American Datum
First Standard Parallel: 33 0' 00" North
Second Standard Parallel: 45 0' 00" North
Central Meridian: 96 0' 00" West
Latitude of Origin: 39 0' 00" North

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Topographic Overlay Map - 5 Mile Buffer

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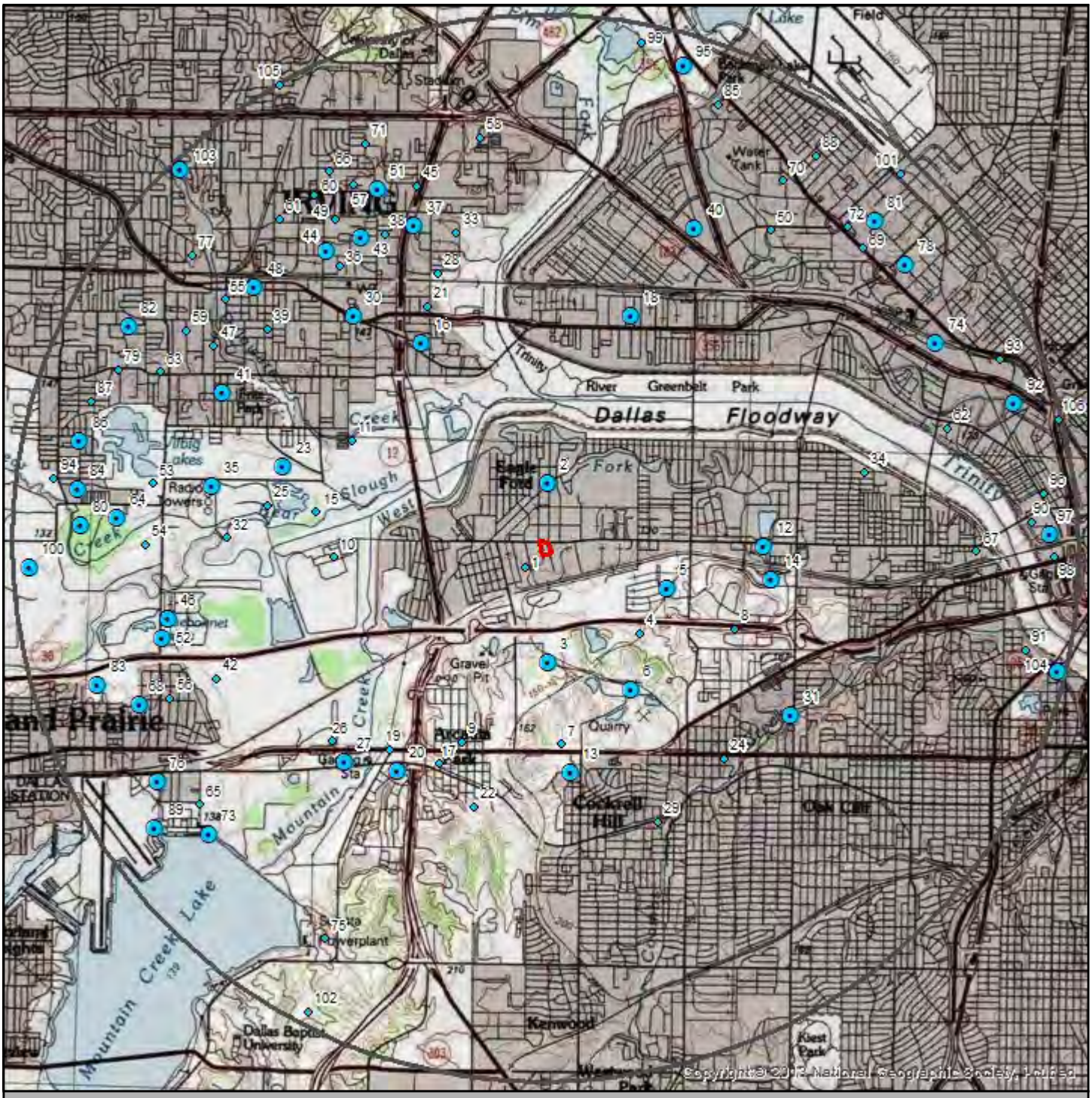

Rebar Facility

Well

Well Cluster

Target Property

Search Buffer

Target Property Quad Name(s)
Irving (1982)

1 : 87,000

1 inch = 1.373 miles
1 inch = 7250 feet

Lambert Conformal Conic Projection
1983 North American Datum
First Standard Parallel: 33 0' 00" North
Second Standard Parallel: 45 0' 00" North
Central Meridian: 96 0' 00" West
Latitude of Origin: 39 0' 00" North

N

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Current Imagery Overlay Map - 5 Mile Buffer

BANKS ENVIRONMENTAL DATA
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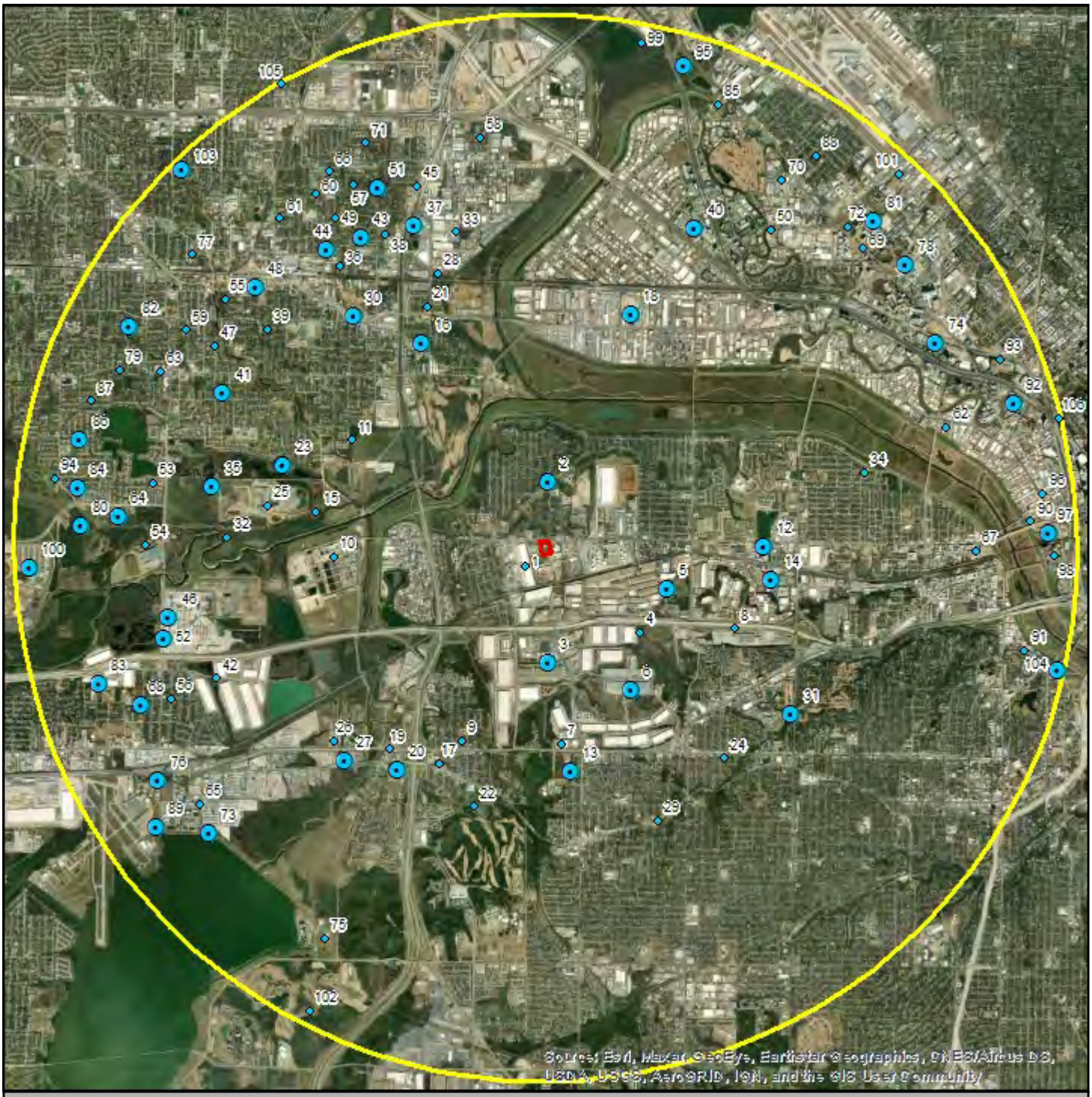

Rebar Facility

Well

Well Cluster

Target Property

Search Buffer

1 : 87,000

1 inch = 1.373 miles
1 inch = 7250 feet
1 centimeter = 0.870 kilometers
1 centimeter = 870 meters

N

Lambert Conformal Conic Projection
1983 North American Datum
First Standard Parallel: 33 0' 00" North
Second Standard Parallel: 45 0' 00" North
Central Meridian: 96 0' 00" West
Latitude of Origin: 39 0' 00" North

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Water Well Details

BANKS ENVIRONMENTAL DATA
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Map ID	Source ID	Dataset	Owner of Well	Type of Well	Depth Drilled	Completion Date	Longitude	Latitude	Elevation	Driller's Logs
1	539409	TX TWDB SDR	SINGLETON VENTURES	Other	5	2/6/2020	-96.9009	32.775	429 ft	View
2	3309904	TX TWDB GW	Independent Water Co	Unused	1325	01/01/1950	-96.8972	32.7867	412 ft	View
2	3309905	TX TWDB GW	Independent Water Co	Unused	728	01/01/1946	-96.8972	32.7869	414 ft	View
2	3309906	TX TWDB GW	INdependent Water	Unused	787	01/01/1947	-96.8975	32.7872	414 ft	View
3	3309907	TX TWDB GW	General Portland Cement	Unused	1550	01/01/1908	-96.8969	32.7619	477 ft	View
3	3309901	TX TWDB GW	General Portland Cement	Unused	1500	01/01/1940	-96.8947	32.7619	484 ft	View
4	3309910	TX TWDB GW	Texaco, Inc	Unused	2485	01/01/1923	-96.8822	32.7661	459 ft	View
5	3309909	TX TWDB GW	Texaco, Inc	Unused	2373	01/01/1913	-96.8775	32.7722	452 ft	View
5	3309911	TX TWDB GW	Texaco Inc	Unused	1392	01/01/1929	-96.8764	32.7742	452 ft	View
6	3309908	TX TWDB GW	General Portland Cement	Industrial	1514	1965-10-13	-96.8833	32.7583	569 ft	View
6	3309902	TX TWDB GW	General Portland Cement	Unused	2597	01/01/1950	-96.8836	32.7578	568 ft	View
6	3309903	TX TWDB GW	General Portland Cement	Industrial	2601	01/01/1957	-96.8806	32.7578	570 ft	View
7	433878	TX TWDB SDR	Taylor Farms	Public Supply	760	9/30/2016	-96.894708	32.750706	633 ft	View
8	439600	TX TWDB SDR	Anchor Construction	Irrigation	860	12/13/2016	-96.8667	32.7668	534 ft	View
9	33-09-9	TX TCEQ HIST	Dallas Calco Inc.	Irrigation	705	05/01/1990	-96.911006	32.750877	520 ft	View
10	3309801	TX TWDB GW	Trinity River Authority	Industrial	475	01/01/1973	-96.9322	32.7761	422 ft	View
11	3309511	TX TWDB GW	Shady Oaks Trailer Park	Public Supply	405	01/01/1969	-96.9294	32.7922	420 ft	View
12	3310701	TX TWDB GW	City of Dallas	Unused	2564	01/01/1952	-96.8619	32.7781	422 ft	View
12	3310702	TX TWDB GW	GAF Corp	Industrial	2525	01/01/1953	-96.8633	32.7781	422 ft	View
13	3317301	TX TWDB GW	Mount St. Michaels	Unused	2667	1947-07-04	-96.8931	32.7469	652 ft	View
13	3317302	TX TWDB GW	Mt. St. Michaels Home	Unused	1492	n/a	-96.8931	32.7469	652 ft	View
14	3310703	TX TWDB GW	Lone Star Cement Co	Unused	2544	01/01/1953	-96.8606	32.7736	444 ft	View
14	3310704	TX TWDB GW	Lone Star CementCo	Unused	2585	01/01/1956	-96.8606	32.7736	444 ft	View
15	526252	TX TWDB SDR	City Of Irving Landfill	Other	8	10/31/2019	-96.9351	32.7823	421 ft	View
16	33-09-5Z	TX TCEQ HIST	Delbert Edwards	Domestic	40	03/30/1981	-96.917972	32.805721	455 ft	View
16	33-09-5X	TX TCEQ HIST	Delbert Edwards	Domestic	50	04/07/1981	-96.91797	32.805839	454 ft	View
17	3317303	TX TWDB GW	Dallas Co. F.W.D. #1	Public Supply	556	n/a	-96.9147	32.7478	496 ft	View
18	33-01-8A	TX TCEQ HIST	C.J. Bender #1	Domestic	318	10/16/1968	-96.884008	32.809796	409 ft	View
18	33-01-8B	TX TCEQ HIST	C.J. Bender #2	Domestic	280	10/29/1968	-96.883998	32.809735	409 ft	View
19	3317205	TX TWDB GW	Not Reported	Domestic	534	n/a	-96.9228	32.7497	440 ft	View
20	33-17-2B	TX TCEQ HIST	Ben Parks	Domestic	464	03/30/1970	-96.921294	32.746814	468 ft	View
20	33-17-2B	TX TCEQ HIST	Hill Pet Shop	N/A	534	03/01/1969	-96.92112	32.746732	468 ft	View
21	33-09-6	TX TCEQ HIST	Michael Miesch	Irrigation	365	08/08/2002	-96.917434	32.810742	462 ft	View
22	255992	TX TWDB SDR	Dallas National Golf Club	Irrigation	2440	1/18/2011	-96.9089	32.7419	517 ft	View
23	33-09-8B	TX TCEQ HIST	Ray K. Neal	Domestic	30	11/06/1972	-96.940364	32.788572	419 ft	View
23	526253	TX TWDB SDR	City Of Irving Landfill	Other	8	10/31/2019	-96.9424	32.7866	425 ft	View
23	526255	TX TWDB SDR	City Of Irving Landfill	Other	5.3	10/31/2019	-96.9419	32.7865	426 ft	View
24	3318101	TX TWDB GW	City of Dallas	Unused	2652	n/a	-96.8683	32.7489	558 ft	View
25	3309802	TX TWDB GW	Gifford Hill and Co	Industrial	1180	01/01/1976	-96.9431	32.7831	408 ft	View
26	569643	TX TWDB SDR	Yello Belly Drag Trip	Irrigation	500	1/28/2021	-96.932	32.7508	428 ft	View
27	33-17-2C	TX TCEQ HIST	Cecil Farris	Domestic	60	09/17/1980	-96.929947	32.748025	433 ft	View
27	G0570180 A	TX TCEQ PWS	TEXAS SPORTS COMPLEX	Public Supply	0	n/a	-96.930389	32.750425	429 ft	View
27	33-09-8	TX TCEQ HIST	Marie Mims	Domestic	515	05/01/1986	-96.929659	32.75038	430 ft	View
27	33-09-8	TX TCEQ HIST	Marie Mims	Domestic	506	04/01/1986	-96.929767	32.750385	430 ft	View
28	3309601	TX TWDB GW	Petrocarbon Chemical Inc	Unused	443	01/01/1957	-96.9158	32.8153	437 ft	View
29	33-17-3A	TX TCEQ HIST	Texas Auto Salvage	Domestic	50	12/22/1972	-96.878935	32.740142	594 ft	View
30	33-09-5	TX TCEQ HIST	Oak Grove Memorial Gardens	Irrigation	470	09/28/2000	-96.929231	32.809337	482 ft	View
30	3309512	TX TWDB GW	C.E. Fann	Industrial	505	01/01/1966	-96.9314	32.8097	483 ft	View
31	3310705	TX TWDB GW	City of Dallas	Unused	2634	01/01/1930	-96.8572	32.755	477 ft	View
31	3310706	TX TWDB GW	Stevens Plaza Apartmnt	Public Supply	829	01/01/1964	-96.8589	32.7547	504 ft	View
32	33-09-8A	TX TCEQ HIST	Dr. Herman H. Plattner	Domestic	450	11/14/1966	-96.949584	32.778636	427 ft	View
33	33-09-6	TX TCEQ HIST	D.J. Barbaria	Domestic	100	05/01/1988	-96.912711	32.820981	457 ft	View
34	33-10-7	TX TCEQ HIST	Rev. P.B. Oldham Jr.	Domestic	40	06/20/1972	-96.845909	32.788458	408 ft	View

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Water Well Details

BANKS ENVIRONMENTAL DATA A DIVISION OF THE BANKS GROUP

Map ID	Source ID	Dataset	Owner of Well	Type of Well	Depth Drilled	Completion Date	Longitude	Latitude	Elevation	Driller's Logs
35	33-09-8	TX TCEQ HIST	Arthur Broyles	Domestic	410	09/01/1986	-96.951942	32.785642	425 ft	View
35	526260	TX TWDB SDR	City Of Irving Landfill	Other	4.8	10/31/2019	-96.9509	32.7865	426 ft	View
35	526262	TX TWDB SDR	City Of Irving Landfill	Other	6.3	10/31/2019	-96.951	32.7865	426 ft	View
36	131008	TX TWDB SDR	Bischofhausen, Richard	Domestic	160	10/30/2007	-96.9317	32.8161	487 ft	View
37	33-09-6	TX TCEQ HIST	Frito Lay, Inc.	Industrial	2300	05/01/2000	-96.919351	32.821942	475 ft	View
37	3309502	TX TWDB GW	City of Irving Well #5	Plugged or Destroyed	2309	01/01/1953	-96.9172	32.8206	476 ft	View
38	3309506	TX TWDB GW	George Foster	Unused	325	01/01/1950	-96.9244	32.8206	486 ft	View
39	33-09-5U	TX TCEQ HIST	Lucy C. McGee	Irrigation	32	06/01/1971	-96.943414	32.807396	478 ft	View
40	33-10-4	TX TCEQ HIST	Andersen Consulting	Industrial	1240	02/01/1993	-96.873703	32.821806	409 ft	View
40	3310406	TX TWDB GW	Andersen Consulting	Plugged or Destroyed	1366	12/01/1993	-96.8731	32.8211	407 ft	View
41	33-09-5Y	TX TCEQ HIST	W.H. Covington	Domestic	57	04/01/1981	-96.950311	32.798574	475 ft	View
41	33-09-5R	TX TCEQ HIST	T.O. Pritchett	Domestic	50	05/01/1970	-96.948555	32.799299	473 ft	View
41	32-16-6S	TX TCEQ HIST	D.J. Richter	Irrigation	45	08/01/1970	-96.947805	32.79911	470 ft	View
41	33-09-5	TX TCEQ HIST	Don Richter	Irrigation	60	06/28/1993	-96.94774	32.799144	469 ft	View
41	33-09-5D	TX TCEQ HIST	C.A. Phillips	Domestic	50	08/06/1969	-96.947881	32.799322	470 ft	View
41	33-09-5	TX TCEQ HIST	Jerry Thorn	Domestic	60	10/07/1988	-96.948464	32.798199	469 ft	View
42	1873	TX TWDB SDR	Deavers Construction L.P.	Industrial	458	6/26/2001	-96.9511	32.7592	432 ft	View
43	33-09-5Q	TX TCEQ HIST	Lowry C. Loveless	Domestic	42	08/02/1969	-96.92813	32.820095	493 ft	View
43	33-09-5K	TX TCEQ HIST	J.C. Kirkpatrick	Irrigation	46	03/15/1974	-96.928652	32.821474	497 ft	View
44	G0570050 A	TX TCEQ PWS	CITY OF IRVING	Public Supply	2250	07/07/1972	-96.933609	32.818333	491 ft	View
44	3309504	TX TWDB GW	City of Irving Well #2	Plugged or Destroyed	2267	01/01/1948	-96.9336	32.8186	491 ft	View
44	3309507	TX TWDB GW	City of Irving	Plugged or Destroyed	2250	1972-06-19	-96.9339	32.8186	491 ft	View
45	33-09-5N	TX TCEQ HIST	R.H. Lorin	Domestic	42	06/16/1964	-96.919238	32.827335	489 ft	View
46	G0570166 B	TX TCEQ PWS	FORTERRA PRESSURE PIPE GRAND PRAIRIE	Public Supply	950	06/08/1955	-96.958838	32.76747	433 ft	View
46	G0570166 C	TX TCEQ PWS	FORTERRA PRESSURE PIPE GRAND PRAIRIE	Public Supply	1158	06/10/2009	-96.959042	32.764978	432 ft	View
46	G0570166 A	TX TCEQ PWS	FORTERRA PRESSURE PIPE GRAND PRAIRIE	Public Supply	1160	08/01/1951	-96.959279	32.764821	433 ft	View
46	3309708	TX TWDB GW	Gifford Hill American	Industrial	450	01/01/1955	-96.9589	32.7678	432 ft	View
46	3309711	TX TWDB GW	Hanson Presure Pipe Well #2	Plugged or Destroyed	950	1955-06-08	-96.9589	32.7675	433 ft	View
46	184538	TX TWDB SDR	Hanson Pressure Pipe	Public Supply	35	6/10/2009	-96.9589	32.765	432 ft	View
46	G0570166 D	TX TCEQ PWS	FORTERRA PRESSURE PIPE GRAND PRAIRIE	Public Supply	450	12/29/2020	-96.9588	32.7673	432 ft	View
46	571545	TX TWDB SDR	Thompson Pipe Group	Public Supply	450	12/29/2020	-96.958808	32.767306	432 ft	View
47	33-09-5G	TX TCEQ HIST	Bill Harris	Irrigation	31	04/01/1972	-96.952062	32.805011	474 ft	View
48	3309503	TX TWDB GW	City of Irving Well #1	Plugged or Destroyed	2284	01/01/1945	-96.9453	32.8131	485 ft	View
48	3309509	TX TWDB GW	City of Irving Old well #2	Plugged or Destroyed	494	01/01/1939	-96.9478	32.8142	487 ft	View
48	3309510	TX TWDB GW	City of Irving Old well #3	Plugged or Destroyed	397	01/01/1924	-96.945	32.8139	485 ft	View
49	33-09-5V	TX TCEQ HIST	Morris F. Taylor	Irrigation	40	06/01/1972	-96.932587	32.822709	496 ft	View
50	151902	TX TWDB SDR	Comerica Bank	Industrial	750	8/25/2008	-96.8614	32.8217	414 ft	View
51	33-09-5F	TX TCEQ HIST	J. Dickens	Domestic	27	03/20/1974	-96.925442	32.826906	482 ft	View
51	33-09-5M	TX TCEQ HIST	Dr. Giles	Domestic	50	05/26/1964	-96.926728	32.82489	492 ft	View
51	33-09-6A	TX TCEQ HIST	Audie Langley	Domestic	30	06/25/1969	-96.92421	32.824686	473 ft	View
51	33-09-5X	TX TCEQ HIST	C.L. Parrish	Domestic	42	06/03/1973	-96.926919	32.824994	492 ft	View
51	33-09-5Q	TX TCEQ HIST	Glenn Herron	Irrigation	29	04/17/1976	-96.925643	32.827436	478 ft	View
51	33-09-5F	TX TCEQ HIST	Lee N. Clark	N/A	42	06/29/1969	-96.926625	32.826779	489 ft	View
51	33-09-5E	TX TCEQ HIST	Don Owen	Domestic	33	07/15/1969	-96.928093	32.828024	484 ft	View
52	3309707	TX TWDB GW	Gifford Hill American	Industrial	1102	01/01/1951	-96.9597	32.7647	433 ft	View
52	3309710	TX TWDB GW	Hanson Pressure Pipe Well #1	Public Supply	1160	8/01/1951	-96.9592	32.7647	433 ft	View

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Water Well Details

Map ID	Source ID	Dataset	Owner of Well	Type of Well	Depth Drilled	Completion Date	Longitude	Latitude	Elevation	Driller's Logs
52	3309712	TX TWDB GW	Hanson Pressure Pipe Well #3	Public Supply	1158	2009-03-02	-96.9592	32.7647	433 ft	View
53	33-09-7C	TX TCEQ HIST	Jack Gazin	Domestic	315	07/18/1966	-96.961768	32.786013	437 ft	View
54	33-09-7D	TX TCEQ HIST	C.B. Drinnan	Domestic	220	09/18/1967	-96.962884	32.777523	426 ft	View
55	33-09-5	TX TCEQ HIST	Clay Gilbert	Irrigation	63	08/21/1995	-96.95026	32.811426	481 ft	View
56	3309702	TX TWDB GW	City of Grand Prairie	Plugged or Destroyed	460	01/01/1950	-96.9586	32.7564	482 ft	View
57	33-09-5S	TX TCEQ HIST	Donald W. Adamson	Domestic	48	05/01/1970	-96.929584	32.827463	489 ft	View
58	33-09-3G	TX TCEQ HIST	Paul V. Perrin	Domestic	550	03/02/1966	-96.909066	32.834063	477 ft	View
59	33-09-5P	TX TCEQ HIST	C.R. Niford	N/A	60	06/15/1968	-96.956598	32.807124	480 ft	View
60	33-09-8	TX TCEQ HIST	Jack Yates	Irrigation	48	01/19/2000	-96.935844	32.825983	498 ft	View
61	33-09-5S	TX TCEQ HIST	Yong Ho Pak	Irrigation	402	12/08/1978	-96.941512	32.822619	495 ft	View
62	3310506	TX TWDB GW	Lone Star Industries	Industrial	50	01/01/1969	-96.8325	32.7947	408 ft	View
63	33-09-4	TX TCEQ HIST	Riaz Hassain	N/A	40	12/18/2003	-96.960718	32.801377	478 ft	View
64	33-09-7	TX TCEQ HIST	Westland Corp.	Domestic	420	09/01/1986	-96.96726	32.781299	433 ft	View
64	3309706	TX TWDB GW	Quiet Acres Trailer Park	Unused	291	01/01/1968	-96.9658	32.7817	429 ft	View
65	3317204	TX TWDB GW	Not Reported	Industrial	502	n/a	-96.9536	32.7419	453 ft	View
66	33-09-5T	TX TCEQ HIST	Fred W. Miller	Irrigation	35	05/01/1971	-96.933506	32.829165	497 ft	View
67	3310821	TX TWDB GW	Gifford-Hill and Co	Industrial	830	01/01/1973	-96.8275	32.7778	411 ft	View
68	G0570048 C	TX TCEQ PWS	CITY OF GRAND PRAIRIE	Public Supply	2163	07/01/1953	-96.963228	32.755503	483 ft	View
68	3309703	TX TWDB GW	City of Grand Prairie Well #16	Plugged or Destroyed	2163	7/01/1953	-96.9631	32.7556	484 ft	View
69	537668	TX TWDB SDR	DWU	Other	60	1/14/2020	-96.8464	32.8193	429 ft	View
70	33-10-4A	TX TCEQ HIST	Marvin McAdams	Domestic	45	04/04/1966	-96.859673	32.828586	448 ft	View
71	33-09-5F	TX TCEQ HIST	Alfred Piano	Domestic	42	07/04/1969	-96.927745	32.833101	501 ft	View
72	631383	TX TWDB SDR	Pediatric Health Management Services	Other	62	12/14/2022	-96.8489	32.8222	452 ft	View
73	3317202	TX TWDB GW	U.S. Naval Air Station	Public Supply	2156	n/a	-96.9519	32.7378	457 ft	View
73	3317203	TX TWDB GW	U.S. Naval Air Station	Public Supply	2118	n/a	-96.9517	32.7383	450 ft	View
74	3310404	TX TWDB GW	City of Dallas	Unused	1405	01/01/1910	-96.8342	32.8064	407 ft	View
74	3310405	TX TWDB GW	City of Dallas	Unused	693	01/01/1910	-96.8342	32.8064	407 ft	View
75	3317201	TX TWDB GW	Dallas Power and Light	Domestic	274	n/a	-96.9331	32.7236	540 ft	View
76	3317105	TX TWDB GW	U.S. Naval Air Station	Public Supply	485	n/a	-96.9603	32.745	458 ft	View
76	3317106	TX TWDB GW	U.S. Naval Air Station	Public Supply	417	n/a	-96.9603	32.745	458 ft	View
77	218951	TX TWDB SDR	Wesley Dawson	Irrigation	400	5/21/2010	-96.9558	32.8175	491 ft	View
78	427911	TX TWDB SDR	UT Southwestern Medical Center	Other	64	7/5/2016	-96.8392	32.8171	456 ft	View
78	427902	TX TWDB SDR	UT Southwestern Medical Center	Other	40	7/1/2016	-96.8397	32.8177	448 ft	View
79	33-09-6	TX TCEQ HIST	Rex Faulkner	Irrigation	295	01/28/1994	-96.967537	32.801567	483 ft	View
80	33-09-7	TX TCEQ HIST	Martha Ragsdale	Domestic	205	12/12/1989	-96.973209	32.780089	425 ft	View
80	33-09-7E	TX TCEQ HIST	Bill Welch	Domestic	60	10/02/1978	-96.972436	32.781454	424 ft	View
81	3310402	TX TWDB GW	Exchange Park Utilities	Industrial	1527	1/01/1956	-96.8444	32.8231	440 ft	View
81	631385	TX TWDB SDR	Pediatric Health Management Services	Other	67	12/18/2022	-96.847	32.8235	456 ft	View
81	631389	TX TWDB SDR	Pediatric Health Management Services	Other	42	12/12/2022	-96.8455	32.8249	449 ft	View
82	33-09-4F	TX TCEQ HIST	F.D. Gilbreath	Domestic	48	03/10/1969	-96.965728	32.807536	470 ft	View
82	33-09-4J	TX TCEQ HIST	F.C. Warming	N/A	50	05/01/1970	-96.96693	32.807157	476 ft	View
83	33-09-7	TX TCEQ HIST	Dealers Auto Auction	Other	477	08/07/1987	-96.970192	32.758291	455 ft	View
83	33-09-7	TX TCEQ HIST	Dealers Auto Auction	Other	316	07/25/1987	-96.970192	32.758006	458 ft	View
84	33-09-7	TX TCEQ HIST	Steffon Toth	Domestic	320	09/16/1990	-96.973871	32.785231	439 ft	View
84	33-09-7K	TX TCEQ HIST	Henderson Salvage	Domestic	44	05/15/1975	-96.974412	32.784975	435 ft	View
85	3310101	TX TWDB GW	Dallas County Park Cities Water	Unused	2400	01/01/1953	-96.8703	32.8389	442 ft	View
86	500476	TX TWDB SDR	City of Irving	Other	15	6/13/2018	-96.9736	32.7918	439 ft	View
86	500475	TX TWDB SDR	City of Irving	Other	15	6/12/2018	-96.9736	32.7917	439 ft	View

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Water Well Details

Map ID	Source ID	Dataset	Owner of Well	Type of Well	Depth Drilled	Completion Date	Longitude	Latitude	Elevation	Driller's Logs
86	500474	TX TWDB SDR	City of Irving	Other	15	6/12/2018	-96.9736	32.7919	438 ft	View
87	33-09-4L	TX TCEQ HIST	Robert U. Trocke	Irrigation	16	08/20/1976	-96.971985	32.797198	439 ft	View
88	33-10-4B	TX TCEQ HIST	Julia Alton Long	Domestic	48	06/12/1970	-96.854248	32.83203	448 ft	View
89	3317103	TX TWDB GW	Naval Air Station	Public Supply	417	n/a	-96.9606	32.7386	466 ft	View
89	3317104	TX TWDB GW	U.S. Naval Air Station	Public Supply	485	n/a	-96.9606	32.7369	463 ft	View
90	474889	TX TWDB SDR	Trademark Property Company	Other	30	2/8/2018	-96.8186	32.7819	401 ft	View
91	3310822	TX TWDB GW	City of Dallas	Unused	2750	01/01/1924	-96.8194	32.7642	404 ft	View
92	408669	TX TWDB SDR	Feizy Properties, Ltd	Extraction	62	11/5/2015	-96.8214	32.7982	404 ft	View
92	408668	TX TWDB SDR	Feizy Properties, Ltd	Extraction	61	11/5/2015	-96.8219	32.7982	404 ft	View
93	3310507	TX TWDB GW	City of Dallas	Unused	1423	01/01/1907	-96.8239	32.8042	398 ft	View
94	33-09-5G	TX TCEQ HIST	A.S. Wochner	Domestic	273	06/10/1971	-96.977855	32.786545	434 ft	View
95	S0570078 A	TX TCEQ PWS	DALLAS COUNTY PARK CITIES MUD	Public Supply	0	n/a	-96.875772	32.844319	409 ft	View
95	537670	TX TWDB SDR	DWU	Other	40	1/13/2020	-96.873008	32.843406	428 ft	View
96	3310802	TX TWDB GW	Dallas Power and Light	Industrial	2728	01/01/1950	-96.8167	32.7858	401 ft	View
97	482125	TX TWDB SDR	Trademark Property Company	Other	30	4/18/2018	-96.8154	32.7803	399 ft	View
97	474896	TX TWDB SDR	Trademark Property Company	Other	30	2/8/2018	-96.8154	32.7803	399 ft	View
97	482126	TX TWDB SDR	Trademark Property Company	Other	30	4/18/2018	-96.8154	32.7803	399 ft	View
97	474894	TX TWDB SDR	Trademark Property Company	Other	30	2/8/2018	-96.8175	32.78	400 ft	View
97	474892	TX TWDB SDR	Trademark Property Company	Other	30	2/8/2018	-96.8163	32.7828	401 ft	View
98	3310815	TX TWDB GW	Dallas Concrete Co	Unused	856	01/01/1952	-96.8147	32.7772	417 ft	View
99	S0570004 C	TX TCEQ PWS	DALLAS WATER UTILITY	Public Supply	0	n/a	-96.882927	32.847271	412 ft	View
100	33-09-7B	TX TCEQ HIST	C. W. McCoy	Domestic	324	08/12/1965	-96.981497	32.774241	433 ft	View
100	311821	TX TWDB SDR	Lone Star Park	Industrial	410	1/28/2013	-96.9822	32.7728	427 ft	View
101	33-10-4	TX TCEQ HIST	J.D. Brown	Domestic	40	11/03/1971	-96.84051	32.829627	470 ft	View
102	33-17-2	TX TCEQ HIST	U S Dept of Veterans Affairs	Irrigation	1264	07/01/1999	-96.935472	32.713547	479 ft	View
103	3309501	TX TWDB GW	City of Irving Old #3 Well	Plugged or Destroyed	2184	01/01/1952	-96.9575	32.8292	494 ft	View
103	G0570050 B	TX TCEQ PWS	CITY OF IRVING	Public Supply	2170	09/29/1971	-96.957222	32.829166	497 ft	View
103	3309508	TX TWDB GW	City of Irving	Plugged or Destroyed	2170	1971-09-09	-96.9575	32.8292	494 ft	View
104	3310820	TX TWDB GW	Oak Farms Dairy	Industrial	1700	n/a	-96.8139	32.7614	420 ft	View
104	3310827	TX TWDB GW	City of Dallas	Unused	0	01/01/1912	-96.8142	32.7625	389 ft	View
105	87297	TX TWDB SDR	INSURANCE DESIGN	Domestic	100	5/29/2004	-96.9417	32.8411	533 ft	View
106	3310501	TX TWDB GW	Dallas Power and Light	Unused	2735	01/01/1948	-96.8142	32.7961	411 ft	View

Well Summary

Water Well Dataset	# of Wells
TX TCEQ HIST	67
TX TCEQ PWS	10
TX TWDB GW	66
TX TWDB SDR	36
Total Count	**179**

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Map ID	State ID	Dataset	Name on Log	Proposed Use	Completed	Total Depth	Current Owner	Mail Address	Mail City	Mail State	Mail Zip	Hypertink	Parcel ID	Parcel City	Parcel Zip	Longitude	Latitude	Banks ID	PUC Reg Num (public supply wells only)	Plugging Report (only when available)
1	539409	TX TWDB SDR	SINGLETON VENTURES	Other	2/6/2020	5	BCIF OAKDALE LOGISTICS CENTER LLC	518 17TH ST # 17	DENVER	COLORADO	80202-4130	https://www.dallascad.org/AcctDetailRes.aspx?ID=00719400004000000	00719400004000000	2520 WEIR ST	DALLAS	-96.9009	32.775	481139WID539409		
2	3309906	TX TWDB CW	Independent Water	Unused	1/1/1947	787	MUNIZ FREDDIE	3713 WESENBERGER DR	DALLAS	TEXAS	75212-2126	https://www.dallascad.org/AcctDetailRes.aspx?ID=00000688021000000	00000688021000000	3713 WESENBERGER DR	DALLAS	752122126	-96.8975	32.7872	481133099906CW	
2	3309904	TX TWDB CW	Independent Water Co	Unused	1/1/1950	1325	MOWERY VERA I	4707 BERNAL DR	DALLAS	TEXAS	75212-2104	https://www.dallascad.org/AcctDetailRes.aspx?ID=00000687970000000	00000687970000000	4707 BERNAL DR	DALLAS	752122104	-96.8972	32.7867	481133099046W	
2	3309905	TX TWDB CW	Independent Water Co	Unused	1/1/1946	728	MOWERY VERA I	4707 BERNAL DR	DALLAS	TEXAS	75212-2104	https://www.dallascad.org/AcctDetailRes.aspx?ID=00000687970000000	00000687970000000	4707 BERNAL DR	DALLAS	752122104	-96.8972	32.7869	481133099050W	
3	3309961	TX TWDB CW	General Portland Cement	Unused	1/1/1940	1500	TAYLOR DUANE KEITH & SUSAN LORRAINE	1441 N COCKRELL HILL RD	DALLAS	TEXAS	75211-1303	https://www.dallascad.org/AcctDetailRes.aspx?ID=00720600040030000	00720600040030000	1441 N COCKRELL HILL RD	DALLAS	752113303	-96.8947	32.7619	481133099010W	
3	3309907	TX TWDB CW	General Portland Cement	Unused	1/1/1908	1550	WALMART REAL ESTATE % WAL-MART PPTY TAX DEPT	PO BOX 8050	BENTONVILLE	ARKANSAS	72712-8055	https://www.dallascad.org/AcctDetailRes.aspx?ID=00720600080140000	00720600080140000	1521 N COCKRELL HILL RD	DALLAS	752113315	-96.8969	32.7619	481133099070W	
4	3309910	TX TWDB CW	Texaco, Inc	Unused	1/1/1923	2485	LNC CANYON HOLDINGS LLC % LENNAR MULTIFAMILY COMMUNITIES LLC	500 N AKARD ST STE 3400	DALLAS	TEXAS	75201-6640	https://www.dallascad.org/AcctDetailRes.aspx?ID=00000705492000100	00000705492000100	4000 IH 30	DALLAS	75211	-96.8822	32.7661	481133099160W		
5	3309909	TX TWDB CW	Texaco, Inc	Unused	1/1/1913	2373	BCO TURNPIKE DISTRIBUTION % HENRY BILLINGSLEY STE 1100	4100 INTERNATIONAL PKWY	CARROLLTON	TEXAS	75007-1971	https://www.dallascad.org/AcctDetailRes.aspx?ID=00000705591500000	00000705591500000	3501 LA REUNION PKWY	DALLAS	752126102	-96.8775	32.7722	481133099090W		
5	3309911	TX TWDB CW	Texaco Inc	Unused	1/1/1929	1392	BREIT INDUSTIAL CANYON TX1M14 LLC %LINK LOGISTICS	PO BOX 2980	CHICAGO	ILLINOIS	60690-2980	https://www.dallascad.org/AcctDetailRes.aspx?ID=00000705591600000	00000705591600000	2210 ST GERMAIN RD	DALLAS	752124811	-96.8764	32.7742	481133099110W	
6	3309908	TX TWDB CW	General Portland Cement	Industrial	10/13/1905	1514	374 PINNACLE OWNER LP % CHEN ASSET MANGMT INC	1900 AVENUE OF THE STARS STE 320	LOS ANGELES	CALIFORNIA	90067-4305	https://www.dallascad.org/AcctDetailRes.aspx?ID=00721200000010000	00721200000010000	3700 PINNACLE POINT DR	DALLAS	752111564	-96.8833	32.7583	481133099060W		
6	3309902	TX TWDB CW	General Portland Cement	Unused	1/1/1950	2597	374 PINNACLE OWNER LP % CHEN ASSET MANGMT INC	1900 AVENUE OF THE STARS STE 320	LOS ANGELES	CALIFORNIA	90067-4305	https://www.dallascad.org/AcctDetailRes.aspx?ID=00721200000010000	00721200000010000	3700 PINNACLE POINT DR	DALLAS	752111564	-96.8836	32.7578	481133099020W		
6	3309903	TX TWDB CW	General Portland Cement	Industrial	1/1/1957	2601	374 PINNACLE OWNER LP % CHEN ASSET MANGMT INC	1900 AVENUE OF THE STARS STE 320	LOS ANGELES	CALIFORNIA	90067-4305	https://www.dallascad.org/AcctDetailRes.aspx?ID=00721200000010000	00721200000010000	3700 PINNACLE POINT DR	DALLAS	752111564	-96.8836	32.7578	481133099030W		
7	433878	TX TWDB SDR	Taylor Farms	Public Supply	9/30/2016	780	AVO MULTIAMP CORPORATION	4545 W DAVIS ST	DALLAS	TEXAS	75211-3422	https://www.dallascad.org/AcctDetailRes.aspx?ID=00720600060050000	00720600060050000	4545 W DAVIS ST	DALLAS	752113422	-96.8947976	32.7507875	481139WID433878	No confident match identified
8	439600	TX TWDB SDR	Anchor Construction	Irrigation	12/13/2016	860	U S POSTAL SERVICE	PO BOX 667180	DALLAS	TEXAS	75266-7180	https://www.dallascad.org/AcctDetailRes.aspx?ID=00000527654500000	00000527654500000	2400 IH 30	DALLAS	75211	-96.8667	32.7668	481139WID439600	
9	3309913	TX TWDB CW	Dallas Calco Inc.	Irrigation	5/1/1950	765	IGLESIA PENTECOSTES AMISADAI	1530 HARBOR DR	DALLAS	TEXAS	75211-6424	https://www.dallascad.org/AcctDetailRes.aspx?ID=00000805054000000	00000805054000000	714 CLEARVIEW AVE	DALLAS	752111132	-96.8110058	32.7506984	481133099320	
10	3309801	TX TWDB CW	Trinity River Authority	Industrial	1/1/1973	475	TRINITY RIVER AUTHORITY	PO BOX 60	ARLINGTON	TEXAS	76004-0060	https://www.dallascad.org/AcctDetailRes.aspx?ID=60294311010010600	60294311010010600	6500 SINGLETON BLVD	GRAND PRAIRIE (DALLAS CO)	752132038	-96.9322	32.7761	481133098010W	
11	3309511	TX TWDB CW	Shady Oaks Trailer Park	Public Supply	1/1/1969	405	KIL LINTEX LLC %KAYLA LINDAMOOD	2020 S NURSERY RD	IRVING	TEXAS	75060-7031	https://www.dallascad.org/AcctDetailRes.aspx?ID=60687957510370000	60687957510370000	2100 S NURSERY RD	IRVING	750607031	-96.9294	32.7922	481133098151W	No confident match identified
12	3310701	TX TWDB CW	City of Dallas	Unused	1/1/1952	2564	CITY OF DALLAS	1500 MARILLA ST	DALLAS	TEXAS	75201-6318	https://www.dallascad.org/AcctDetailRes.aspx?ID=00000700630000000	00000700630000000	2600 SINGLETON BLVD	DALLAS	752123738	-96.8819	32.7781	481133107010W	
12	3310702	TX TWDB CW	GAF Corp	Industrial	1/1/1953	2525	BUILDING MATERIALS CORP OF AMERICA	1361 ALPS RD	WAYNE	NEW JERSEY	07470-3700	https://www.dallascad.org/AcctDetailRes.aspx?ID=00000709063000000	00000709063000000	2600 SINGLETON BLVD	DALLAS	752123738	-96.8633	32.7781	481133107020W	
13	3317301	TX TWDB CW	Mount St. Michaels	Unused	7/4/1947	2667	SISTERS OF OUR LADY OF CHARITY OF THE GOOD SHEPHERD DALLAS INC	4500 W DAVIS ST	DALLAS	TEXAS	75211-3419	https://www.dallascad.org/AcctDetailRes.aspx?ID=00004660270050000	00004660270050000	4500 W DAVIS ST	DALLAS	752113419	-96.8931	32.7469	481133171010W	
13	3317302	TX TWDB CW	Mt. St. Michaels Home	Unused	n/a	1492	SISTERS OF OUR LADY OF CHARITY OF THE GOOD SHEPHERD DALLAS INC	4500 W DAVIS ST	DALLAS	TEXAS	75211-3419	https://www.dallascad.org/AcctDetailRes.aspx?ID=00004660270000000	00004660270000000	4500 W DAVIS ST	DALLAS	752113419	-96.8931	32.7469	481133171020W	
14	3310703	TX TWDB CW	Lone Star Cement Co	Unused	1/1/1953	2544	BCORE JUPITER TX LLC % LINK LOGISTICS	PO BOX 2980	CHICAGO	ILLINOIS	60690-2980	https://www.dallascad.org/AcctDetailRes.aspx?ID=00000527655300000	00000527655300000	2301 W COMMERCE ST	DALLAS	752125019	-96.8606	32.7736	481133107030W	
14	3310704	TX TWDB CW	Lone Star/Ideal Cement Co	Unused	1/1/1959	2585	BCORE JUPITER TX LLC % LINK LOGISTICS	PO BOX 2980	CHICAGO	ILLINOIS	60690-2980	https://www.dallascad.org/AcctDetailRes.aspx?ID=00000527655300000	00000527655300000	2301 W COMMERCE ST	DALLAS	752125019	-96.8606	32.7736	481133107040W	
15	526252	TX TWDB SDR	City Of Irving Landfill	Other	10/31/2019	8	CITY OF IRVING	825 W IRVING BLVD	IRVING	TEXAS	75060	https://www.dallascad.org/AcctDetailRes.aspx?ID=60687957510310000	60687957510310000	900 E HUNTER FERRELL RD	IRVING	75060	-96.9351	32.7823	481139WID526252	
16	33-09-52	TX TCEQ WQ	Delbert Edwards	Domestic	3/30/1981	40	SALAZAR HECTOR & TAMMY	1936 EDGEWOOD DR	IRVING	TEXAS	75060-4684	https://www.dallascad.org/AcctDetailRes.aspx?ID=32588500000200000	32588500000200000	1936 EDGEWOOD DR	IRVING	750604684	-96.9179724	32.8058399	481130027B	
16	33-09-53X	TX TCEQ WQ	Delbert Edwards	Domestic	4/7/1981	50	SALAZAR HECTOR & TAMMY	1936 EDGEWOOD DR	IRVING	TEXAS	75060-4684	https://www.dallascad.org/AcctDetailRes.aspx?ID=32588500000200000	32588500000200000	1936 EDGEWOOD DR	IRVING	750604684	-96.9179724	32.8058399	481130027B	
17	3317303	TX TWDB CW	Dallas Co. F.W.D. #1	Public Supply	n/a	556	DAVIS PHILLIP E	1210 ASHFORD LN	MIDLOTHIAN	TEXAS	76065-6427	https://www.dallascad.org/AcctDetailRes.aspx?ID=00000805000000100	00000805000000100	5401 W JEFFERSON BLVD	DALLAS	752113828	-96.9147	32.7478	481133317030W	No confident match identified
18	33-01-6A	TX TCEQ WQ	C.I. Bender #1	Domestic	10/16/1968	318	SOUTHEASTERN FREIGHT LINES INC	420 DAVEGA DR	LEXINGTON	SOUTH CAROLINA	29073-7485	https://www.dallascad.org/AcctDetailRes.aspx?ID=00000766133500000	00000766133500000	4001 IRVING BLVD	DALLAS	752475815	-96.8540755	32.6090754	481130060J	
18	33-01-8B	TX TCEQ WQ	C.I. Bender #2	Domestic	10/29/1968	280	SOUTHEASTERN FREIGHT LINES INC	420 DAVEGA DR	LEXINGTON	SOUTH CAROLINA	29073-7485	https://www.dallascad.org/AcctDetailRes.aspx?ID=00000766133500000	00000766133500000	4001 IRVING BLVD	DALLAS	752475815	-96.8839755	32.8097347	481130060J	
19	3317205	TX TWDB CW	Not Reported	Domestic	n/a	534	HANEEN INVESTMENTS LLC	12928 CONIFER LN	EULESS	TEXAS	76040-7191	https://www.dallascad.org/AcctDetailRes.aspx?ID=00833404000030000	00833404000030000	6011 W DAVIS ST	DALLAS	752117040	-96.9228	32.7497	481133172050W	
20	33-17-2B	TX TCEQ WQ	Ben Parks	Domestic	3/30/1979	404	LVPA 5956 W JEFFERSON CB OWNER LLC	333 W WACKER DR STE 2300	CHICAGO	ILLINOIS	60606-1266	https://www.dallascad.org/AcctDetailRes.aspx?ID=00000602155000000	00000602155000000	102 ARMY AVE	DALLAS	75211	-96.9219432	32.7469143	481130204B	
20	33-17-2B	TX TCEQ WQ	Hill Pet Shop	N/A	3/1/1969	534	IGLESIA ADVENIMIENTO DEL SEPTIMO DIALOSTRES ANGELES INC	214 ALPINE CT	IRVING	TEXAS	75060-2214	https://www.dallascad.org/AcctDetailRes.aspx?ID=00000806272000000	00000806272000000	5 NAVY AVE	DALLAS	75211	-96.9211984	32.7467209	481130051T	
21	33-09-6	TX TCEQ WQ	Michael Meyer	Irrigation	8/6/2002	1	MIECH MICHAEL D JR	1415 DOOR LN	IRVING	TEXAS	75061-5141	https://www.dallascad.org/AcctDetailRes.aspx?ID=60884849049020000	60884849049020000	1415 W WILDWOOD DR	IRVING	750613141	-96.9379304	32.8331028	481130190D	
22	255992	TX TWDB SDR	Dallas National Golf Club	Irrigation	1/18/2011	2440	DNGC MEMBER CLUB INC	1515 KNOXVILLE RD	DALLAS	TEXAS	75211-1328	https://www.dallascad.org/AcctDetailRes.aspx?ID=00610700040A10000	00610700040A10000	1515 KNOXVILLE ST	DALLAS	752113328	-96.9089	32.7419	481139WID255992	
23	526255	TX TWDB SDR	City Of Irving Landfill	Other	10/31/2019	0	CITY OF IRVING	825 W IRVING BLVD	IRVING	TEXAS	75060	https://www.dallascad.org/AcctDetailRes.aspx?ID=60687957510310000	60687957510310000	900 E HUNTER FERRELL RD	IRVING	75060	-96.9419	32.7865	481139WID526255	
23	33-09-8B	TX TCEQ WQ	Ray K. Neal	Domestic	11/6/1972	30	CITY OF IRVING	825 W IRVING BLVD	IRVING	TEXAS	75060	https://www.dallascad.org/AcctDetailRes.aspx?ID=60687957510380700	60687957510380700	1000 BOLDEN RD	IRVING	75060	-96.9403637	32.7885753	481130309	
24	526253	TX TWDB SDR	City Of Irving Landfill	Other	10/31/2019	8	CITY OF IRVING	825 W IRVING BLVD	IRVING	TEXAS	75060	https://www.dallascad.org/AcctDetailRes.aspx?ID=60687957510610000	60687957510610000	110 HUNTER FERRELL RD	IRVING	75060	-96.9424	32.7896	481139WID526253	
24	3318101	TX TWDB CW	City of Dallas	Unused	n/a	2552	CITY OF DALLAS	1500 MARILLA ST	DALLAS	TEXAS	75201-6318	https://www.dallascad.org/AcctDetailRes.aspx?ID=00033080300000000	00033080300000000	2834 W DAVIS ST	DALLAS	752123823	-96.8800	32.7469	481131810G1W	
25	330802	TX TWDB CW	Gifford Hill and Co	Industrial	1/1/1976	1180	CITY OF IRVING	825 W IRVING BLVD	IRVING	TEXAS	75060	https://www.dallascad.org/AcctDetailRes.aspx?ID=60687957510610000	60687957510610000	110 HUNTER FERRELL RD	IRVING	75060	-96.9331	32.7836	481133098020W	
26	569643	TX TWDB SDR	Yello Belly Drag Trip	Irrigation	1/28/2021	500	METROPLEX SPORTS	516 W OAK ST APT 11	DENTON	TEXAS	76201-8002	https://www.dallascad.org/AcctDetailRes.aspx?ID=60099030010090000	60099030010090000	4702 E MAIN ST	NO TOWN	75050	-96.932	32.7508	481139WID569643	
27	0057019B6	TX PWS	TEXAS SPORTS COMPLEX	Public Supply	n/a	1000	CETOLOGY LLC	2000 MCKINNEY AVE STE 1000	DALLAS	TEXAS	75201-2027	https://www.dallascad.org/AcctDetailRes.aspx?ID=65156032010010000	65156032010010000	4906 E MAIN ST	GRAND PRAIRIE (DALLAS CO)	750504624	-96.9303888	32.7504225	481130057018A	No confident match identified
27	33-09-8	TX TCEQ WQ	Marie Mims	Domestic	5/1/1986	515	CETOLOGY LLC	2000 MCKINNEY AVE STE 1000	DALLAS	TEXAS	75201-2027	https://www.dallascad.org/AcctDetailRes.aspx?ID=65156032010010000	65156032010010000	4906 E MAIN ST	GRAND PRAIRIE (DALLAS CO)	750504624	-96.92965862	32.7503781	481130020	
27	33-09-8	TX TCEQ WQ	Marie Mims	Domestic	4/1/1986	506	CETOLOGY LLC	2000 MCKINNEY AVE STE 1000	DALLAS	TEXAS	75201-2027	https://www.dallascad.org/AcctDetailRes.aspx?ID=65156032010010000	65156032010010000	4906 E MAIN ST	GRAND PRAIRIE (DALLAS CO)	750504624	-96.9297669	32.7503846	481130018	
28	33-17-2C	TX TCEQ WQ	Cecil Farris	Domestic	9/17/1980	540	FARRIS DONNA	402 E JEFFERSON ST	GRAND PRAIRIE	TEXAS	75051-2454	https://www.dallascad.org/AcctDetailRes.aspx?ID=65142501020000000	65142501020000000	4402 E JEFFERSON ST	GRAND PRAIRIE (DALLAS CO)	750512456	-96.9266736	32.7480456	481130518	
28	330601	TX TWDB CW	Petrocarbon Chemical Inc	Unused	1/1/1957	443	TEXAS UTILITIES ELEC CO % STATE & LOCAL TAX DEPT	PO BOX 139100	DALLAS	TEXAS	75313-9100	https://www.dallascad.org/AcctDetailRes.aspx?ID=65078250018000000	65078250018000000	200 N WILDWOOD DR	IRVING	75061	-96.9158	32.8153	481133096010W	
29	33-17-3A	TX TCEQ WQ	Texas Auto Salvage	Domestic	12/22/1992	36	BUSTILLOS ROBERTO C	3600 W JEFFERSON BLVD	DALLAS	TEXAS	75211-6750	https://www.dallascad.org/AcctDetailRes.aspx?ID=61050000A01A00000	61050000A01A00000	3600 W JEFFERSON BLVD	COCKRELL HILL	752114708	-96.8799353	32.7401426	481130519	
30	33-09-5	TX TCEQ WQ	Oak Grove Memorial Gardens	Irrigation	9/28/2000	470	OAK GROVE MEMORIAL PARK	1413 E IRVING BLVD	IRVING	TEXAS	75060-4308	https://www.dallascad.org/AcctDetailRes.aspx?ID=32210500000190000	32210500000190000	1413 E IRVING BLVD	IRVING	750604308	-96.9292341	32.8093749	481130166	
30	330952	TX TWDB CW	C.E. Fann	Industrial	1/1/1966	505	JIEMMA LLC	1502 E IRVING BLVD	IRVING	TEXAS	75060-4412	https://www.dallascad.org/AcctDetailRes.aspx?ID=32098500020010000	32098500020010000	1200 E IRVING BLVD	IRVING	750604355	-96.9314	32.8097	481133095120W	
31	3310706	TX TWDB CW	Stevens Plaza Apartmnt	Public Supply	1/1/1964	829	WAKHEMBO LLC	EWEISWILLE	TEXAS	TEXAS	75067-3387	https://www.dallascad.org/AcctDetailRes.aspx?ID=00000528760000000	00000528760000000	1422 BAHAMA DR	DALLAS	752120219	-96.8839	32.7547	481133107060W	No confident match identified
31	3310705	TX TWDB CW	City of Dallas	Unused	1/1/1930	2634	CITY OF DALLAS	1500 MARILLA ST	DALLAS	TEXAS	75201-6318	https://www.dallascad.org/AcctDetailRes.aspx?ID=00003306310000000	00003306310000000	800 N HAMPTON RD	DALLAS	752083106	-96.8572	32.755	481133107050W	
32	33-09-8A	TX TCEQ WQ	Dr. Herbert H. Pluttmer	Domestic	11/14/1946	450	PLATTNER HERMAN H ETAL	25 HIGHLAND PARK VLG STE 100-711	DALLAS	TEXAS	75205-2789	https://www.dallascad.org/AcctDetailRes.aspx?ID=60687957510310000	60687957510310000	420 W HUNTER FERRELL RD	IRVING	75060	-96.9539	32.7863598	481130308	
33	33-09-6	TX TCEQ WQ	D.J. Barbaria	Domestic	5/1/1988	100	TIX INC	PO BOX 188	TONTITOWN	ARKANSAS	72770-0188	https://www.dallascad.org/AcctDetailRes.aspx?ID=32540500000030000	32540500000030000	2300 TINE ST	IRVING	750618010	-96.9127105	32.8209128	481130028	
34	33-10-7	TX TCEQ WQ	Rev. P.B. Chatman Jr.	Domestic	6/20/1972	40	HADNOT EDWARD C & CHARLOTTE H	PO BOX 224951	DALLAS	TEXAS	75222-4951	https://www.dallascad.org/AcctDetailRes.aspx?ID=00000677683000000	00000677683000000	1816 BAYSIDE ST	DALLAS	752123815	-96.8459903	32.7884578	481130030	
35	33-09-8	TX TCEQ WQ	Arthur Broyles	Domestic	9/11/1986	40	VERTICAL BRIDGE LANDCO LLC STE 200	BOCA RATON	FLORIDA	FLORIDA	33487-3670	https://www.dallascad.org/AcctDetailRes.aspx?ID=60687957510250000	60687957510250000	500 W HUNTER FERRELL RD	IRVING	75060	-96.9519244	32.7854209	481130321	
35	526260	TX TWDB SDR	City Of Irving Landfill	Other	10/31/2019	5	CITY OF IRVING	825 W IRVING BLVD	IRVING	TEXAS	75060	https://www.dallascad.org/AcctDetailRes.aspx?ID=60687957510630000	60687957510630000	400 W HUNTER FERRELL RD	IRVING	75060	-96.9509	32.7865	481139WID526260	
35	526262	TX TWDB SDR	City Of Irving Landfill	Other	10/31/2019	6	CITY OF IRVING	825 W IRVING BLVD	IRVING	TEXAS	75060	https://www.dallascad.org/AcctDetailRes.aspx?ID=60687957510610000	60687957510610000	110 W HUNTER FERRELL RD	IRVING	75060	-96.951	32.7865	481139WID526262	
36	131008	TX TWDB SDR	Bischofhausen, Richard	Domestic	10/30/2007	160	HATFIELD JASON A	408 MALTBY RD	IRVING	TEXAS	75061-7827	https://www.dallascad.org/AcctDetailRes.aspx?ID=32232500010070000	32232500010070000	408 MALTBY RD	IRVING	750617827	-96.9317	32.8161	481139WID131008	
37	33-09-6	TX TCEQ WQ	Frito Lay, Inc.	Industrial	5/1/2000	2300	FRITO-LAY INC TAX DEPT	PO BOX 660634	DALLAS	TEXAS	75266-0634	https://www.dallascad.org/AcctDetailRes.aspx?ID=32132920041A10000	32132920041A10000	701 N WILDWOOD DR	IRVING	75061	-96.9193512	32.8219474	481130193	
37	330602	TX TWDB CW	City of Irving Well #5	Plugged or Destroyed	1/1/1953	2309	CITY OF IRVING	825 W IRVING BLVD	IRVING	TEXAS	75060	https://www.dallascad.org/AcctDetailRes.aspx?ID=32132920041A10000	32132920041A10000	701 N WILDWOOD DR	IRVING	75061	-96.9172	32.8206	481133095020W	
38	330506	TX TWDB CW	George Foster	Unused	1/1/1950	325	KINGSTON FAMILY TRUST THE	726 N IRVING HEIGHTS DR	IRVING	TEXAS	75061-7937	https://www.dallascad.org/AcctDetailRes.aspx?ID=32250520040A10000	32250520040A10000	726 N IRVING HEIGHTS DR	IRVING	75061	-96.9244	32.8206	481133095060W	
39	33-09-5U	TX TCEQ WQ	Lucy C. McGee	Irrigation	6/1/1971	32	HERNANDEZ JOSEPH EDWARD	700 S DELAWARE ST	IRVING	TEXAS	75060-5347	https://www.dallascad.org/AcctDetailRes.aspx?ID=32096500020010000	32096500020010000	700 S DELAWARE ST	IRVING	750605347	-96.9434136	32.8073968	481133100276	
40	33-10-4	TX TCEQ WQ	Anderson Consulting	Industrial	7/1/1993	1240	DATABANK PROPERTIES LLC	305 S AKARD ST STE 100	DALLAS	TEXAS	75202-5326	https://www.dallascad.org/AcctDetailRes.aspx?ID=00000773595000000	00000773595000000	1100 EMPIRE CENTRAL PL	DALLAS	752473406	-96.8770255	32.8218574	481130190	
40	3310406	TX TWDB CW	Anderson Consulting	Plugged or Destroyed	12/1/1993	1366	DATABANK PROPERTIES LLC	400 S AKARD ST STE 100	DALLAS	TEXAS	75202-5326	https://www.dallascad.org/AcctDetailRes.aspx?ID=00000773595000000	00000773595000000	1100 EMPIRE CENTRAL PL	DALLAS	752473406	-96.8731	32.8211	481133104060W	
41	33-16-6B	TX TCEQ WQ	D. Richter	Domestic	5/1/1970	63	DUGGINS KAREN ANN & PATTERSON JERRY ALAN	1501 UPTON PL	FORT WORTH	TEXAS	76102-6803	https://www.dallascad.org/AcctDetailRes.aspx?ID=32558500010000	32558500010000	1501 UPTON PL	DALLAS	752112864	-96.9606	32.7369	481133171040W	
41	33-09-5D	TX TCEQ WQ	C.A. Phillips	Domestic	8/6/1969	50	BELLA INVESTMENTS LLC	508 CREST RIDGE DR	IRVING	TEXAS	75061-9106	https://www.dallascad.org/AcctDetailRes.aspx?ID=32558500010000	32558500010000	1504 UPTON PL	IRVING	750606805	-96.9478896	32.7993217	481130259	
41	33-09-5Y	TX TCEQ WQ	W.H. Covington	Domestic	4/1/1981	57	WYATT SANDRA Y	1805 CREEK RIDGE CT	IRVING	TEXAS	75060-5846	https://www.dallascad.org/AcctDetailRes.aspx?ID=32057500050150000	32057500050150000	309 W 16TH ST	IRVING	750605958	-96.9503108	32.7985739	481130280	
42	33-16-6S	TX TCEQ WQ	D.J. Richter	Domestic	11/5/2015	62	CASTILLO JORGE LUIS MEDRANO & ALONDRA LIZETH H BRISENO	1508 UPTON PL	IRVING	TEXAS	75060-6805	https://www.dallascad.org/AcctDetailRes.aspx?ID=32558500010100000	32558500010100000	1508 UPTON PL	IRVING	750606805	-96.9479848	32.7991094	481130284	
41	33-09-5	TX TCEQ WQ	Don Richter	Irrigation	6/28/1993	60	CASTILLO JORGE LUIS MEDRANO & ALONDRA LIZETH H BRISENO	1508 UPTON PL	IRVING	TEXAS	75060-6805	https://www.dallascad.org/AcctDetailRes.aspx?ID=32558500010100000	32558500010100000	1508 UPTON PL	IRVING	750606805	-96.9473993	32.7991438	481130282	
41	33-09-5	TX TCEQ WQ	Jerry Thorn	Domestic	10/7/1988	50	THORN REBA I	1610 UPTON PL	IRVING	TEXAS	75060-6818	https://www.dallascad.org/AcctDetailRes.aspx?ID=32216500010000000	32216500010000000	1610 UPTON PL	IRVING	750606818	-96.9466444	32.7981993	481130283	
42	1873	TX TWDB SDR	Deavers Construction L.P.	Industrial	6/26/2001	458	DUKE REALTY LP % PROLOGICS LP-RE TAX	1800 WAZEE ST STE 500	DENVER	COLORADO	80202-2526	https://www.dallascad.org/AcctDetailRes.aspx?ID=28072300040R10000	28072300040R10000	3953 GRAND LAKES WAY	GRAND PRAIRIE (DALLAS CO)	750500003	-96.9511	32.7592	481139WID1873	
43	33-09-5K	TX TCEQ WQ	J.C. Kirkpatrick	Irrigation	3/15/1974	46	GALINDO CESAR L & ALEANDRA STEFANY	1330 DREXEL DR	IRVING	TEXAS	75061-8604	https://www.dallascad.org/AcctDetailRes.aspx?ID=32519900020040000	32519900020040000	1330 DREXEL DR	IRVING	750618604	-96.9286517	32.8214382	481130267	
43	33-09-5Q	TX TCEQ WQ	Lowry C. Lowless	Domestic	3/1/1969	40	HART CHARLES W	1422 BEN DR	IRVING	TEXAS	75061-5141	https://www.dallascad.org/AcctDetailRes.aspx?ID=60884970047010000	60884970047010000	1422 BEN DR	IRVING	750615141	-96.9281290	32.8200974	481130271	
44	G0570050A	TX TCEQ PWS	CITY OF IRVING	Public Supply	7/7/1972	2250	CITY OF IRVING	825 W IRVING BLVD	IRVING	TEXAS	75060	https://www.dallascad.org/AcctDetailRes.aspx?ID=32107690040020000	32107690040020000	506 N NURSERY RD	IRVING	750617734	-96.9336980	32.8183267	481130570050A	12299
44	330954	TX TWDB CW	City of Irving Well #2	Plugged or Destroyed	1/1/1948	2267	CITY OF IRVING	825 W IRVING BLVD	IRVING	TEXAS	75060	https://www.dallascad.org/AcctDetailRes.aspx?ID=32107690040020000	32107690040020000	506 N NURSERY RD	IRVING	750617734	-96.9336	32.8186	481133095040W	
44	330957	TX TWDB CW	City of Irving	Plugged or Destroyed	6/19/1972	2250	CITY OF IRVING	825 W IRVING BLVD	IRVING	TEXAS	75060	https://www.dallascad.org/AcctDetailRes.aspx?ID=32107690040020000	32107690040020000	506 N NURSERY RD	IRVING	750617734	-96.9339	32.8186	481133095070W	
45	33-09-5N	TX TCEQ WQ	R.H. Lorin	Domestic	6/16/1964	42	SARLES GILBERT & SARLES MIRIAM	1223 DARB ST	IRVING	TEXAS	75061-5503	https://www.dallascad.org/AcctDetailRes.aspx?ID=60183500020020000	60183500020020000	1223 DARB ST	IRVING	750615503	-96.9192378	32.8273474	481130237	
46	184538	TX TWDB SDR	Hanson Pressure Pipe	Public Supply	6/10/2009	63	PIPE PORTFOLIO OWNER MULTI LP %WP CAREY INC	11450 TECHNOLOGY CIR	JOHNS CREEK	GEORGIA	30097-1504	https://www.dallascad.org/AcctDetailRes.aspx?ID=28066550000020000	28066550000020000	1004 MACARTHUR BLVD	GRAND PRAIRIE (DALLAS CO)	75050	-96.9569	32.765	481139WID184538	No confident match identified
46	G0570166C	TX TCEQ PWS	FORTERRA PRESSURE PIPE GRAND PRAIRIE	Public Supply	6/10/2009	1158	PIPE PORTFOLIO OWNER MULTI LP %WP CAREY INC	11450 TECHNOLOGY CIR	JOHNS CREEK	GEORGIA	30097-1504	https://www.dallascad.org/AcctDetailRes.aspx?ID=28066550000020000	28066550000020000	1004 MACARTHUR BLVD	GRAND PRAIRIE (DALLAS CO)	75050	-96.9569416	32.7649779	481130570166C	No confident match identified
46	G0570166A	TX TCEQ PWS	FORTERRA PRESSURE PIPE GRAND PRAIRIE	Public Supply	8/1/1951	1160	PIPE PORTFOLIO OWNER MULTI LP %WP CAREY INC	11450 TECHNOLOGY CIR	JOHNS CREEK	GEORGIA	30097-1504	https://www.dallascad.org/AcctDetailRes.aspx?ID=28066550000020000	28066550000020000	1004 MACARTHUR BLVD	GRAND PRAIRIE (DALLAS CO)	75050	-96.9592788	32.7648214	481130570166A	No confident match identified
46	G0570166B	TX TCEQ PWS	FORTERRA PRESSURE PIPE GRAND PRAIR

Prepared for:

MODERN GEOSCIENCES
P.O. Box 92083
Southlake, TX 76092

BANKS ENVIRONMENTAL DATA
A DIVISION OF THE BANKS GROUP

Water Well Report

Rebar Facility

4700 Singleton Blvd

Dallas, TX

PO #: 23249

ES-143592

Wednesday, March 6, 2024

Banks Environmental Data, Inc. - PO Box 12851 - Austin, TX 78711 - 800.531.5255 P - 512.478.1433 F
www.banksenvdata.com

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Geographic Summary

Location
TX
Target location is 0.01 square miles and has a 0.41 mile perimeter

Coordinates	
Longitude & Latitude in Degrees Minutes Seconds	NA
Longitude & Latitude in Decimal Degrees	NA
X and Y in UTM	NA

Elevation
NA

Zip Codes Searched	
Search Distance	**Zip Codes (historical zip codes included)**
Target Property	75212
0.5 miles	75212

Topos Searched	
Search Distance	**Topo Name**
Target Property	Irving (1982)
0.5 miles	Irving (1982)

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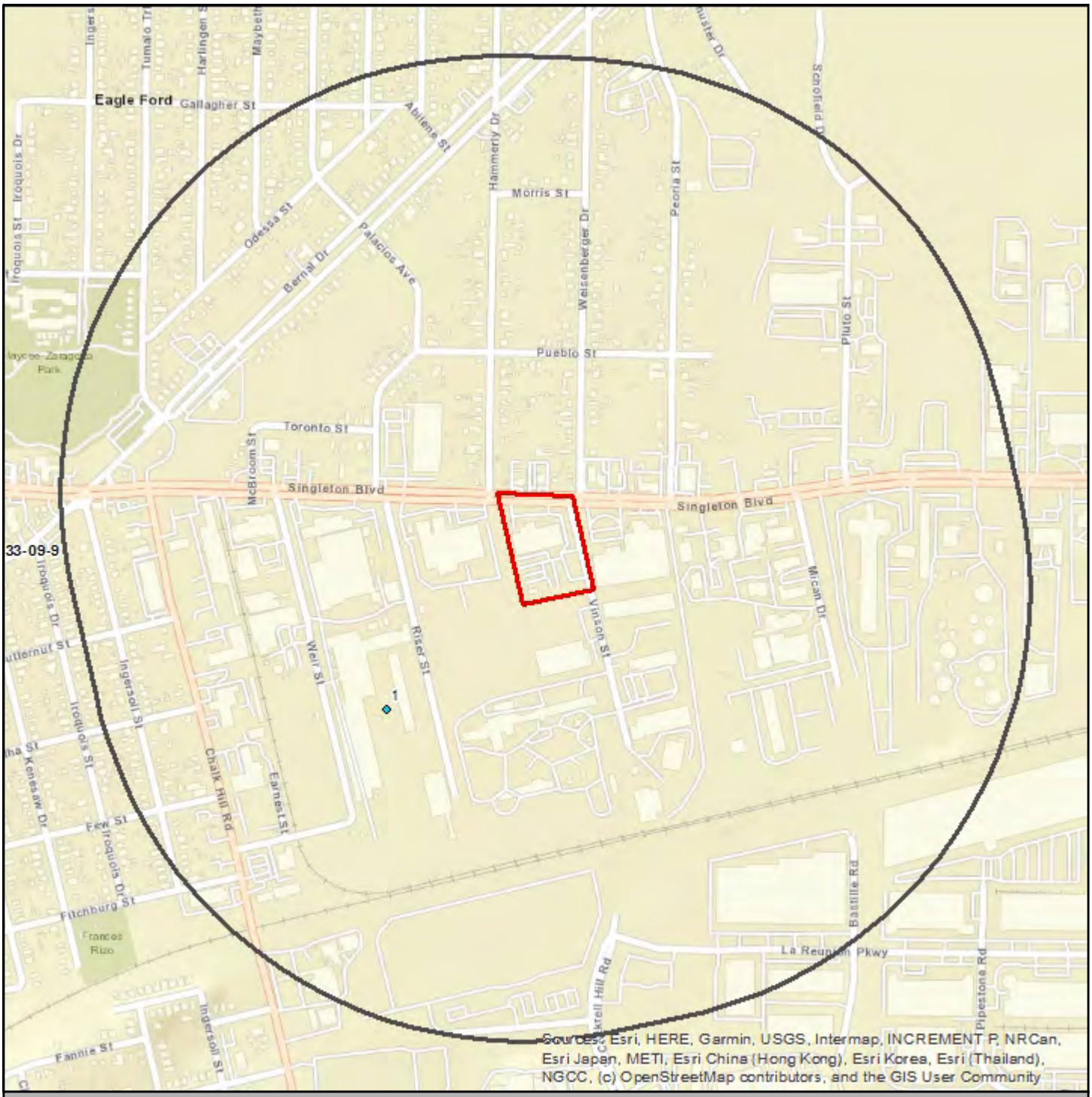
Summary Map - 0.5 Mile Buffer



Rebar Facility

- Well
- Well Cluster
- Target Property
- Search Buffer
- Texas Quad Index

1 : 10,500

1 inch = 0.166 miles
1 inch = 875 feet
1 centimeter = 0.105 kilometers
1 centimeter = 105 meters

N

Lambert Conformal Conic Projection
1983 North American Datum
First Standard Parallel: 33 0' 00" North
Second Standard Parallel: 45 0' 00" North
Central Meridian: 96 0' 00" West
Latitude of Origin: 39 0' 00" North

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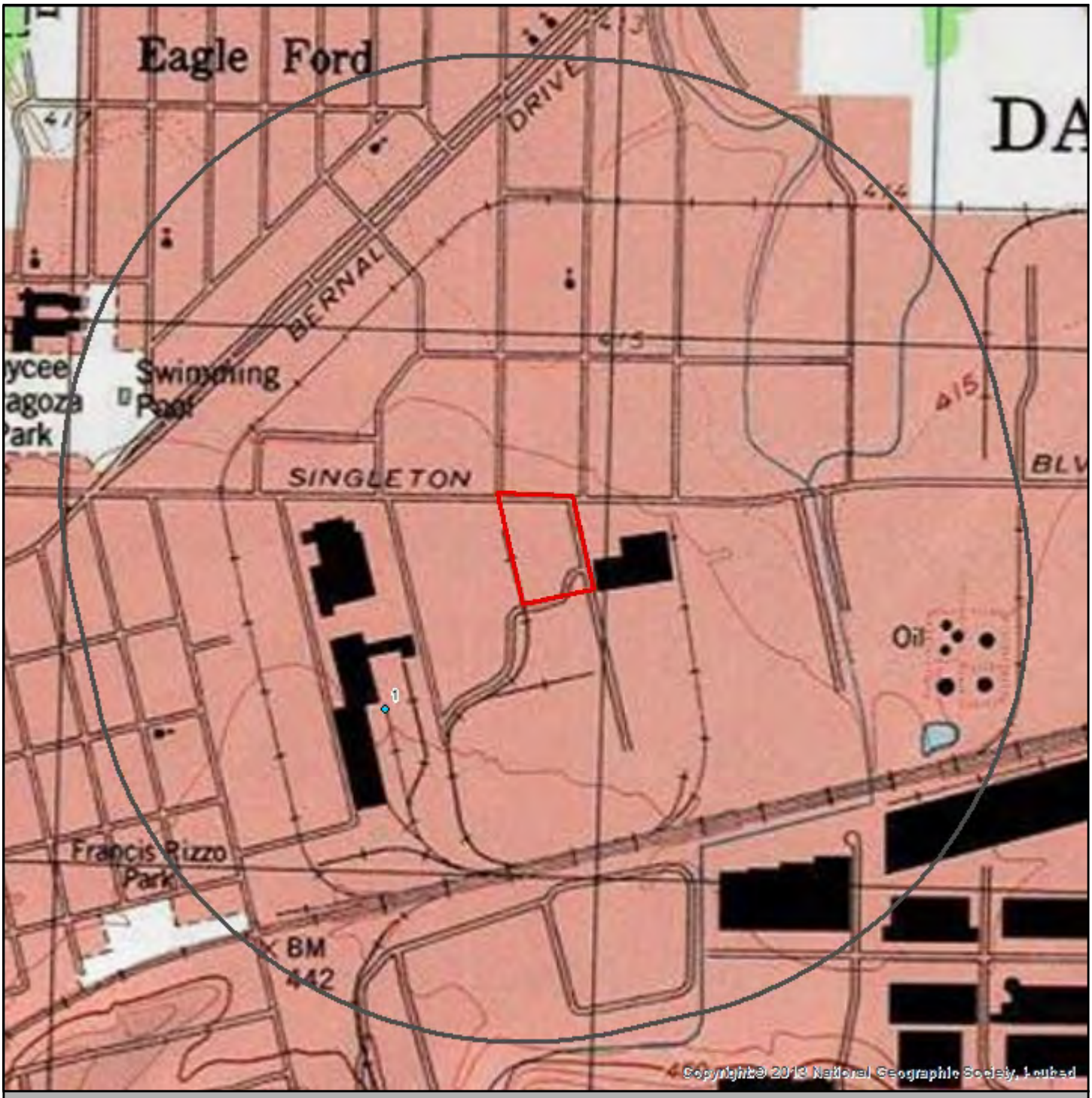
Topographic Overlay Map - 0.5 Mile Buffer



Rebar Facility

Well

Well Cluster

Target Property

Search Buffer

Target Property Quad Name(s)
Irving (1982)

1 : 10,500
1 inch = 0.166 miles
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Lambert Conformal Conic Projection
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N

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Current Imagery Overlay Map - 0.5 Mile Buffer

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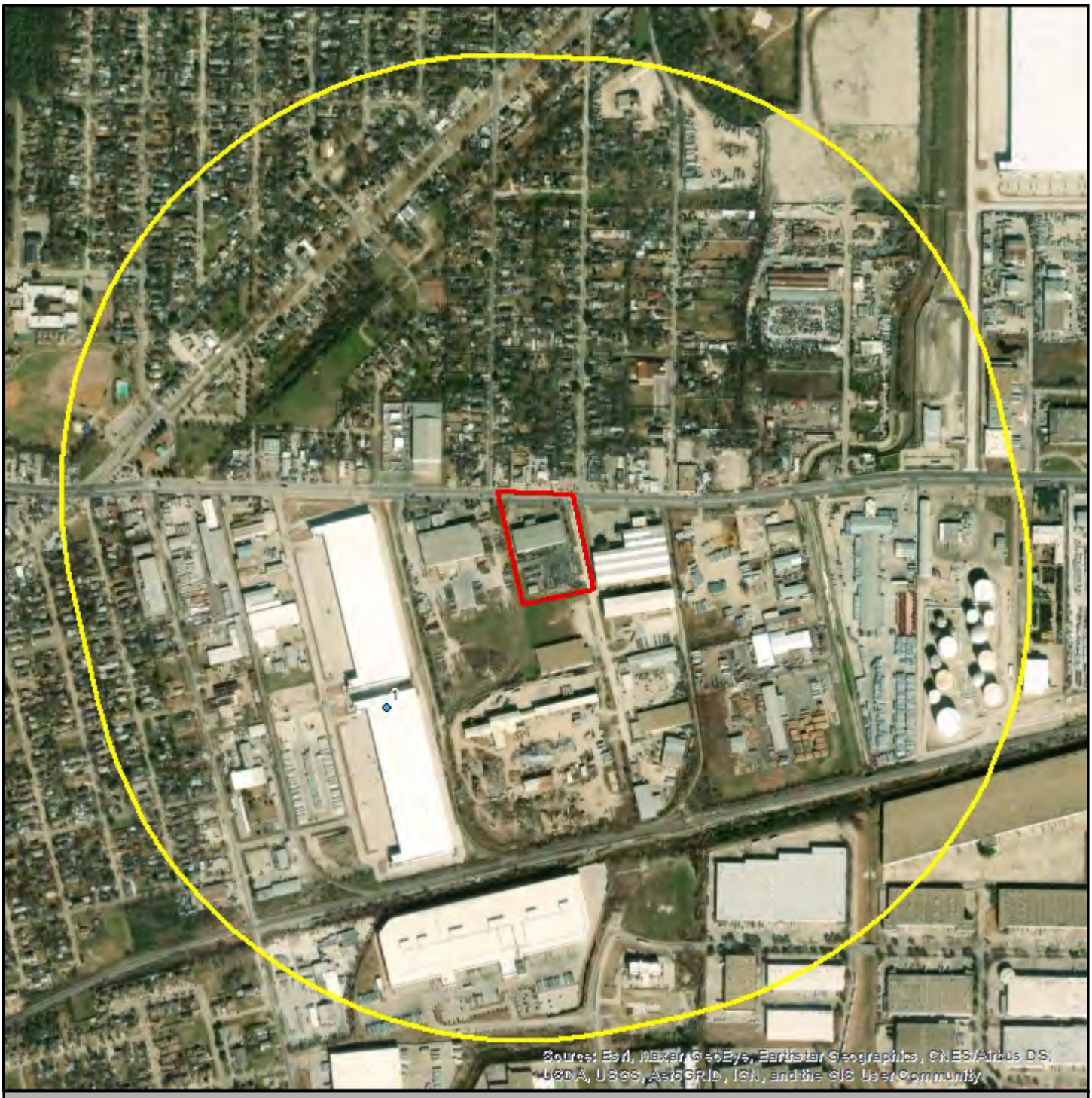

Rebar Facility

Well

Well Cluster

Target Property

Search Buffer

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Water Well Details

Map ID	Source ID	Dataset	Owner of Well	Type of Well	Depth Drilled	Completion Date	Longitude	Latitude	Elevation	Driller's Logs
1	539409	TX TWDB SDR	SINGLETON VENTURES	Other	5	2/6/2020	-96.9009	32.775	429 ft	View

Well Summary

Water Well Dataset	# of Wells
TX TWDB SDR	1
Total Count	**1**

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STATE OF TEXAS WELL REPORT for Tracking #539409

Owner:	**SINGLETON VENTURES**	Owner Well #:	**SGMP-1 TO 18**
Address:	**4900 SINGLETON AVE DALLAS, TX 75212**	Grid #:	**33-09-9**
Well Location:	**4900 SINGLETON AVE DALLAS, TX 75212**	Latitude:	**32° 46' 30.13" N**
		Longitude:	**096° 54' 03.38" W**
Well County:	**Dallas**	Elevation:	**No Data**
Number of Wells Drilled:	**18**		
Type of Work:	**SOIL BORING**	Proposed Use:	**SOIL GAS VAPOR POINT**

Drilling Start Date: **2/6/2020** Drilling End Date: **2/6/2020**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**2**	**0**	**5**

Drilling Method: **Direct Push**

Borehole Completion: **Plugged**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **No Data**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Description (number of sacks & material)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Plug Information:	**Bentonite**	**0**	**5**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **RIOMAR DRILLING INC**

9213 MONTANA STREET
JOSHAU, TX 76058

Driller Name: **DARRIN S. STARK SR.** License Number: **54891**

Apprentice Name: **JORDAN STARK**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**5**	**TOP SOIL,CLAY**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

Dataset Descriptions and Sources

Dataset	Source	Dataset Description	Update Schedule	Data Requested	Data Obtained	Data Updated	Source Updated
TX HGSD - Texas HGSD	Harris Galveston Subsidence District/Fort Bend Subsidence District	This dataset contains all groundwater well records compiled by Harris Galveston Subsidence District/Fort Bend Subsidence District.	Quarterly	01/02/2024	01/03/2024	01/04/2024	01/03/2024
TX TCEQ HIST - Texas TCEQ Historical	Texas Commission on Environmental Quality	This dataset contains all historical water well records searched from the TCEQ Public Water Well Viewer. Banks Environmental Data plots each well record based on location information found on the log.	As requested	N/A	N/A	N/A	N/A
TX TCEQ PWS - Texas TCEQ PWS	Texas Commission on Environmental Quality	This dataset contains a collection of records from Texas Water Districts, Public Drinking Water Systems and Water and Sewer Utilities who submit information to the TCEQ.	Quarterly	01/04/2024	01/16/2024	02/02/2024	01/16/2024
TX TWDB GW - Texas TWDB Groundwater Database	Texas Water Development Board	This dataset contains water well records contained within Texas Water Development Board Groundwater Database.	Quarterly	02/14/2024	02/14/2024	02/14/2024	02/14/2024
TX TWDB SDR - Texas TWDB Submitted Drillers Reports	Texas Water Development Board	This dataset contains water well records from the Texas Water Development Board Submitted Drillers Reports Database.	Quarterly	02/14/2024	02/14/2024	03/01/2024	02/14/2024
USGS WW - USGS Water Wells	U.S. Geological Survey	This dataset contains groundwater well records from the U.S. Geological Survey.	Semi-annually	11/13/2023	11/13/2023	11/13/2023	11/13/2023

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Disclaimer

The Banks Environmental Data Water Well Report was prepared from existing state water well databases and/or additional file data/records research conducted at the state agency and the U.S. Geological Survey. Banks Environmental Data has performed a thorough and diligent search of all groundwater well information provided and recorded. All mapped locations are based on information obtained from the source. Although Banks performs quality assurance and quality control on all research projects, we recognize that any inaccuracies of the records and mapped well locations could possibly be traced to the appropriate regulatory authority or the actual driller. It may be possible that some water well schedules and logs have never been submitted to the regulatory authority by the water driller and, thus, may explain the possible unaccountability of privately drilled wells. It is uncertain if the above listing provides 100% of the existing wells within the area of review. Therefore, Banks Environmental Data cannot fully guarantee the accuracy of the data or well location(s) of those maps and records maintained by the regulatory authorities.

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Section 19 - Retail Public Utilities

The name and address of each retail public utility, as defined in Section 13.002 of the Texas Water Code, that own or operates a groundwater supply well within five miles of the designated property, along with a statement as to whether the applicant has provided notice as required by Section 361.805 of the Texas Health and Safety Code.

The attached Public Water System (PWS) Report dated March 6, 2024 compiled by Banks Environmental Data identified ten (10) groundwater supply wells within five miles of the designated property owned or operated by a retail public utility, as defined in Section 13.002 of the Texas Water Code. This included the City of Dallas, City of Irving, and City of Grand Prairie. Notices will be sent in accordance with Section 361.805 of the Texas Health and Safety Code following selection of a Public Meeting and Public Hearing date.

Of the 10 groundwater supply wells identified, six (6) are listed as inactive or plugged/abandoned. Two (2) wells associated with Forterra Pressure Pipe Grand Prairie and two (2) wells associated with Dallas County Park Cities MUD and Dallas Water utility, respectively, are listed as operational. A summary of the PWS data is attached to this section.

Prepared for:

MODERN GEOSCIENCES
P.O. Box 92083
Southlake, TX 76092

BANKS ENVIRONMENTAL DATA
A DIVISION OF THE BANKS GROUP

Public Water System Report

Rebar Facility

4700 Singleton Blvd

Dallas, TX

PO #: 23249

ES-143592

Wednesday, March 6, 2024

Banks Environmental Data, Inc. - PO Box 12851 - Austin, TX 78711 - 800.531.5255 P - 512.478.1433 F
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Geographic Summary

Location
TX
Target location is 0.01 square miles and has a 0.41 mile perimeter

Coordinates	
Longitude & Latitude in Degrees Minutes Seconds	NA
Longitude & Latitude in Decimal Degrees	NA
X and Y in UTM	NA

Elevation
NA

Zip Codes Searched	
Search Distance	**Zip Codes (historical zip codes included)**
Target Property	75212
5 miles	75211, 75050, 75212, 75060, 75051, 75208, 75247, 75236, 75220, 75219, 75061, 75224, 75039, 75201, 75233, 75235, 75203, 75207, 75062

Topos Searched	
Search Distance	**Topo Name**
Target Property	Irving (1982)
5 miles	Duncanville (1982), Irving (1982), Oak Cliff (1982), Dallas (1982)

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Summary Map - 5 Mile Buffer

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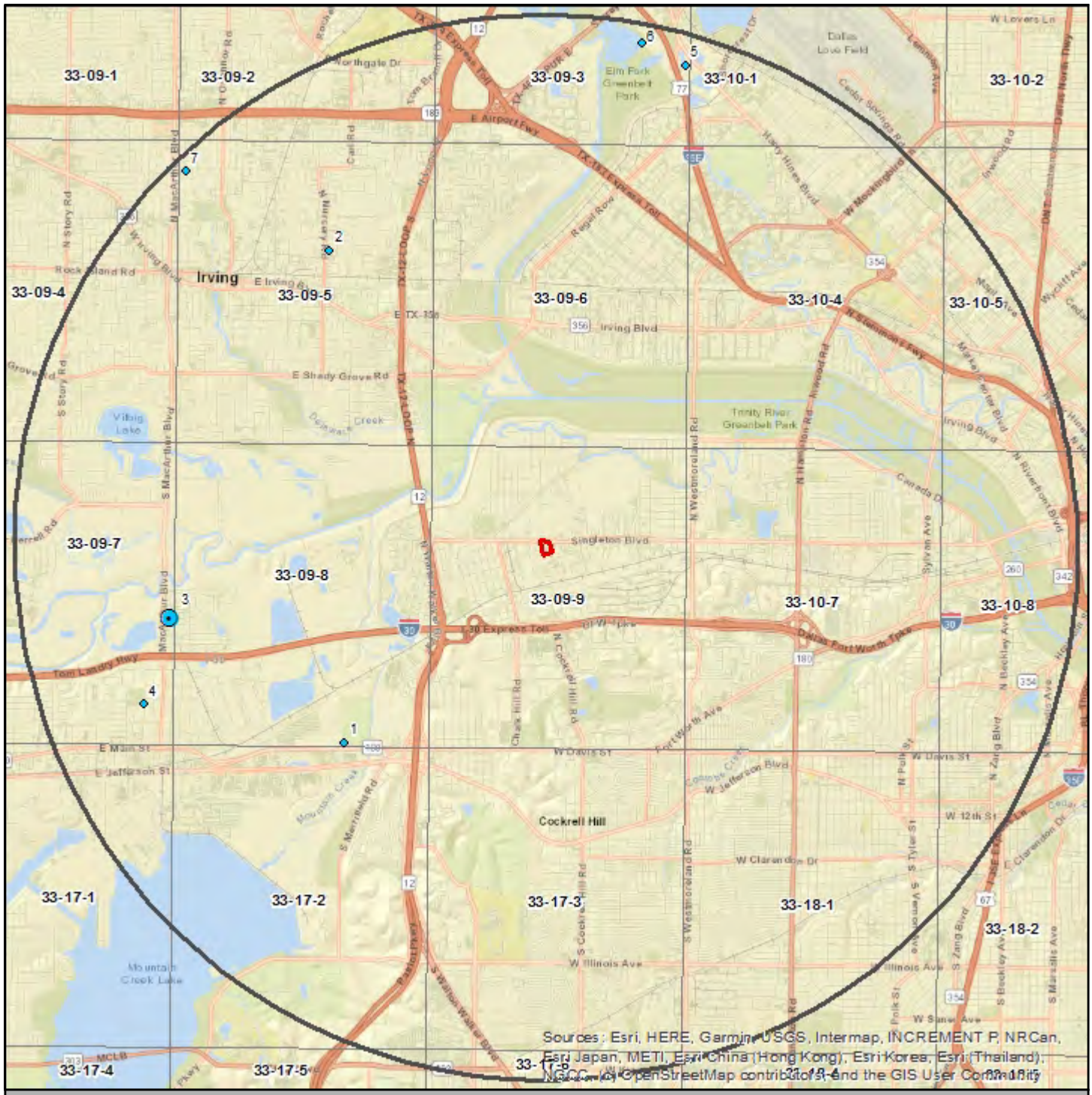

Rebar Facility

Well

Well Cluster

Target Property

Search Buffer

Texas Quad Index

1 : 87,000

1 inch = 1.373 miles
1 inch = 7250 feet
1 centimeter = 0.870 kilometers
1 centimeter = 870 meters

N

Lambert Conformal Conic Projection
1983 North American Datum
First Standard Parallel: 33 0' 00" North
Second Standard Parallel: 45 0' 00" North
Central Meridian: 96 0' 00" West
Latitude of Origin: 39 0' 00" North

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Topographic Overlay Map - 5 Mile Buffer

Rebar Facility

Well

Well Cluster

Target Property

Search Buffer

Target Property Quad Name(s)
Irving (1982)

1 : 87,000

1 inch = 1.373 miles
1 inch = 7250 feet

Lambert Conformal Conic Projection
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N

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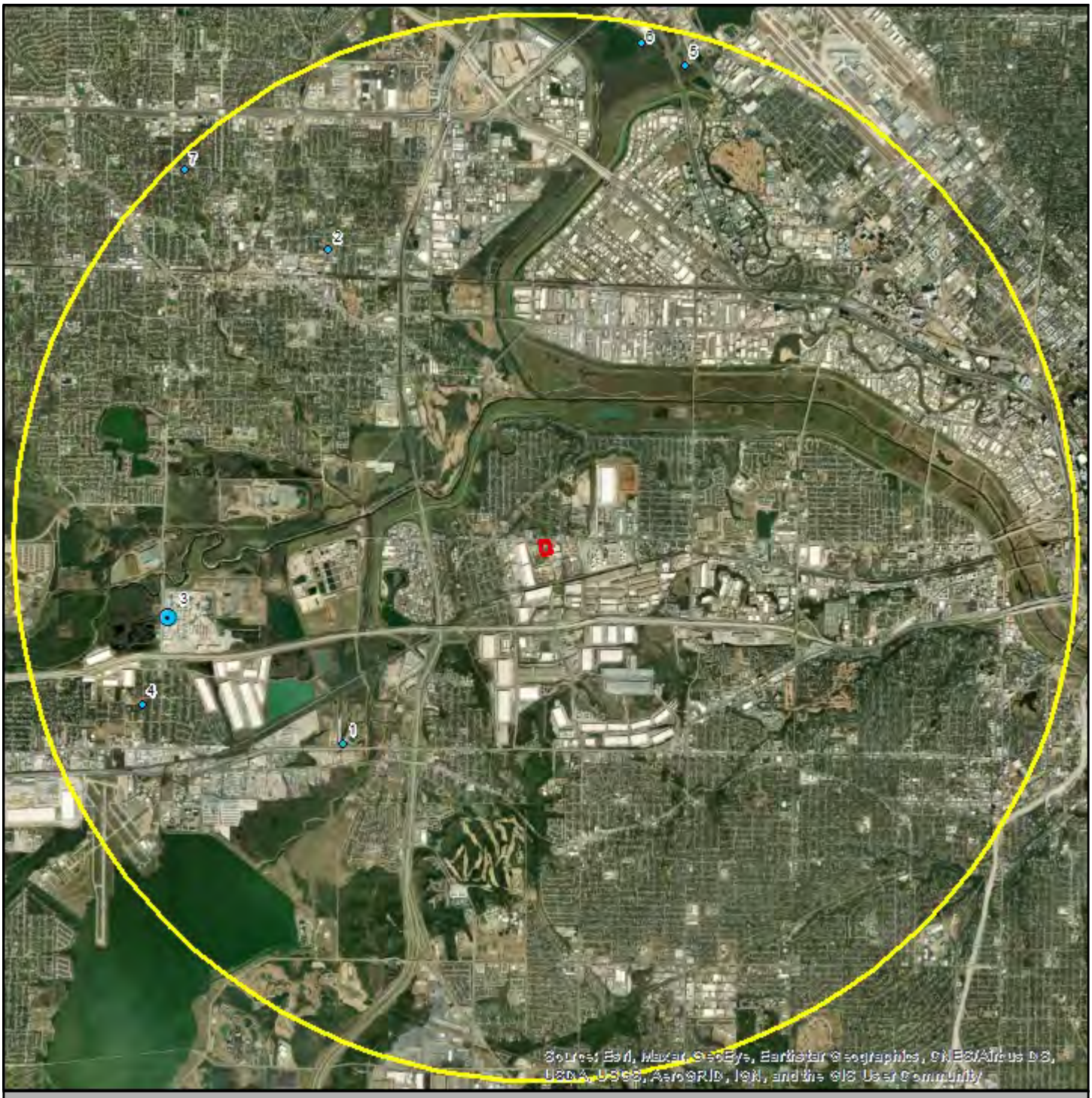
Current Imagery Overlay Map - 5 Mile Buffer



Rebar Facility

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Well Cluster

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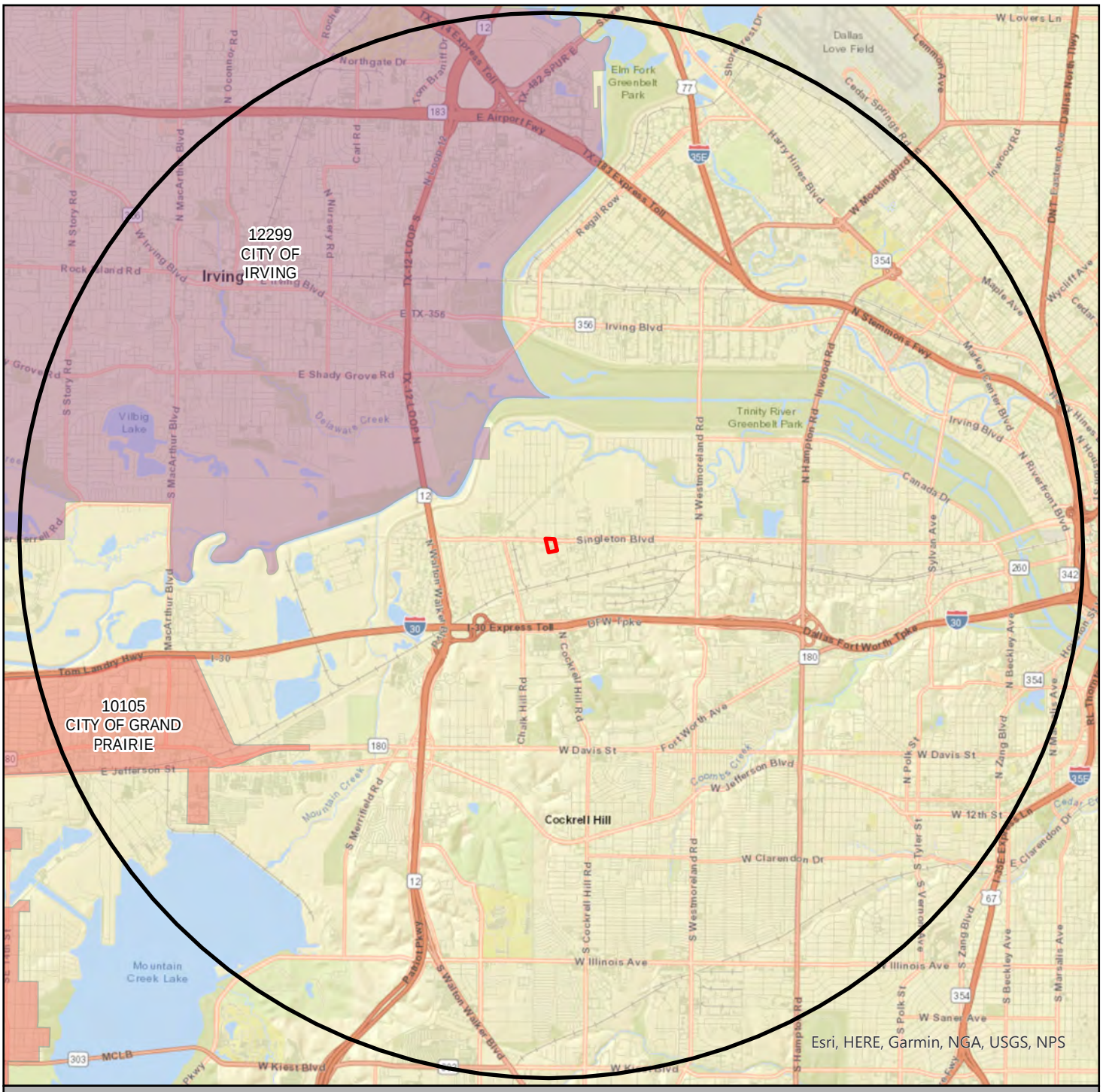
CCN Service Boundaries - 5 Mile Buffer



Rebar Facility

Target Property

5 Mile Buffer

UTILITY

CITY OF GRAND PRAIRIE

CITY OF IRVING

1:87,000

Lambert Conformal Conic Projection
1983 North American Datum
First Standard Parallel: 33 0' 00" North
Second Standard Parallel: 45 0' 00" North
Central Meridian: 96 0' 00" West
Latitude of Origin: 39 0' 00"

N

Source: TX PUC

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Water Well Details

Map ID	State ID	CCN	PWS Name	System Status	Source Status	Depth	Longitude	Latitude
1	G0570180A		TEXAS SPORTS COMPLEX	INACTIVE	PUBLIC WATER SYSTEM: INACTIVE	0	-96.93038889	32.750425
2	G0570050A	12299	CITY OF IRVING	ACTIVE	PLUGGED	2250	-96.93360901	32.81833267
3	G0570166A		FORTERRA PRESSURE PIPE GRAND PRAIRIE	ACTIVE	ABANDONED	1160	-96.95927868	32.76482148
3	G0570166B		FORTERRA PRESSURE PIPE GRAND PRAIRIE	ACTIVE	PLUGGED	950	-96.95883816	32.76746958
3	G0570166C		FORTERRA PRESSURE PIPE GRAND PRAIRIE	ACTIVE	OPERATIONAL	1158	-96.95904167	32.76497778
3	G0570166D		FORTERRA PRESSURE PIPE GRAND PRAIRIE	ACTIVE	OPERATIONAL	450	-96.9588	32.7673
4	G0570048C	10105	CITY OF GRAND PRAIRIE	ACTIVE	ABANDONED	2163	-96.96322778	32.75550278
5	S0570078A		DALLAS COUNTY PARK CITIES MUD	ACTIVE	OPERATIONAL	0	-96.87577222	32.84431944
6	S0570004C	P0001	DALLAS WATER UTILITY	ACTIVE	OPERATIONAL	0	-96.88292694	32.84727097
7	G0570050B	12299	CITY OF IRVING	ACTIVE	PLUGGED	2170	-96.95722199	32.82916641

Well Summary

Water Well Dataset	# of Wells
TX TCEQ PWS	10
Total Count	**10**

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Dataset Descriptions and Sources

Dataset	Source	Dataset Description	Update Schedule	Data Requested	Data Obtained	Data Updated	Source Updated
TX TCEQ PWS - Texas TCEQ PWS	Texas Commission on Environmental Quality	This dataset contains a collection of records from Texas Water Districts, Public Drinking Water Systems and Water and Sewer Utilities who submit information to the TCEQ.	Quarterly	01/04/2024	01/16/2024	02/02/2024	01/16/2024

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Disclaimer

Banks Environmental Data, Inc. has performed a thorough and diligent search of all public water supply systems recorded with Texas Commission on Environmental Quality (TCEQ) Safe Drinking Water Information System (SDWIS). Actual site locations are derived from TCEQ Texas Drinking Water Watch digital data. Although Banks performs quality assurance and quality control on all research, we recognize that any inaccuracies of the records and mapped locations could be traced to TCEQ.

Description of CCN (Certificate of Convenience and Necessity)

A Certificate of Convenience and Necessity (CCN) is issued by the Public Utility Commission (PUC) of Texas, and authorizes a utility to provide water and/or sewer service to a specific area. CCNs are required of investor owned utilities and water supply corporations. The CCN obligates the water or sewer retail public utility to provide continuous and adequate service to every customer who requests service in that area.

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Section 20 – Adjacent Municipalities

A listing of each municipality, other than the city of Dallas, with a boundary within one-half mile of the designated property, and a statement as to whether the applicant has provided notice as required by Section 361.805 of the Texas Health and Safety Code.

There are no municipalities, other than the City of Dallas, with a boundary within one-half mile of the designated property. The report from Banks documenting no municipalities are located within one-half mile of the Site has been attached in this section. Accordingly, the applicant will not be required to provide notice to any other municipalities since no other municipalities were identified within the search radius pursuant to Section 361.805 of the Texas Health and Safety Code.

Prepared for:

MODERN GEOSCIENCES
P.O. Box 92083
Southlake, TX 76092

BANKS ENVIRONMENTAL DATA
A DIVISION OF THE BANKS GROUP

MSD Municipal Report

Rebar Facility

4700 Singleton Blvd

Dallas, TX

PO #: 23249

ES-143592

Tuesday, March 12, 2024

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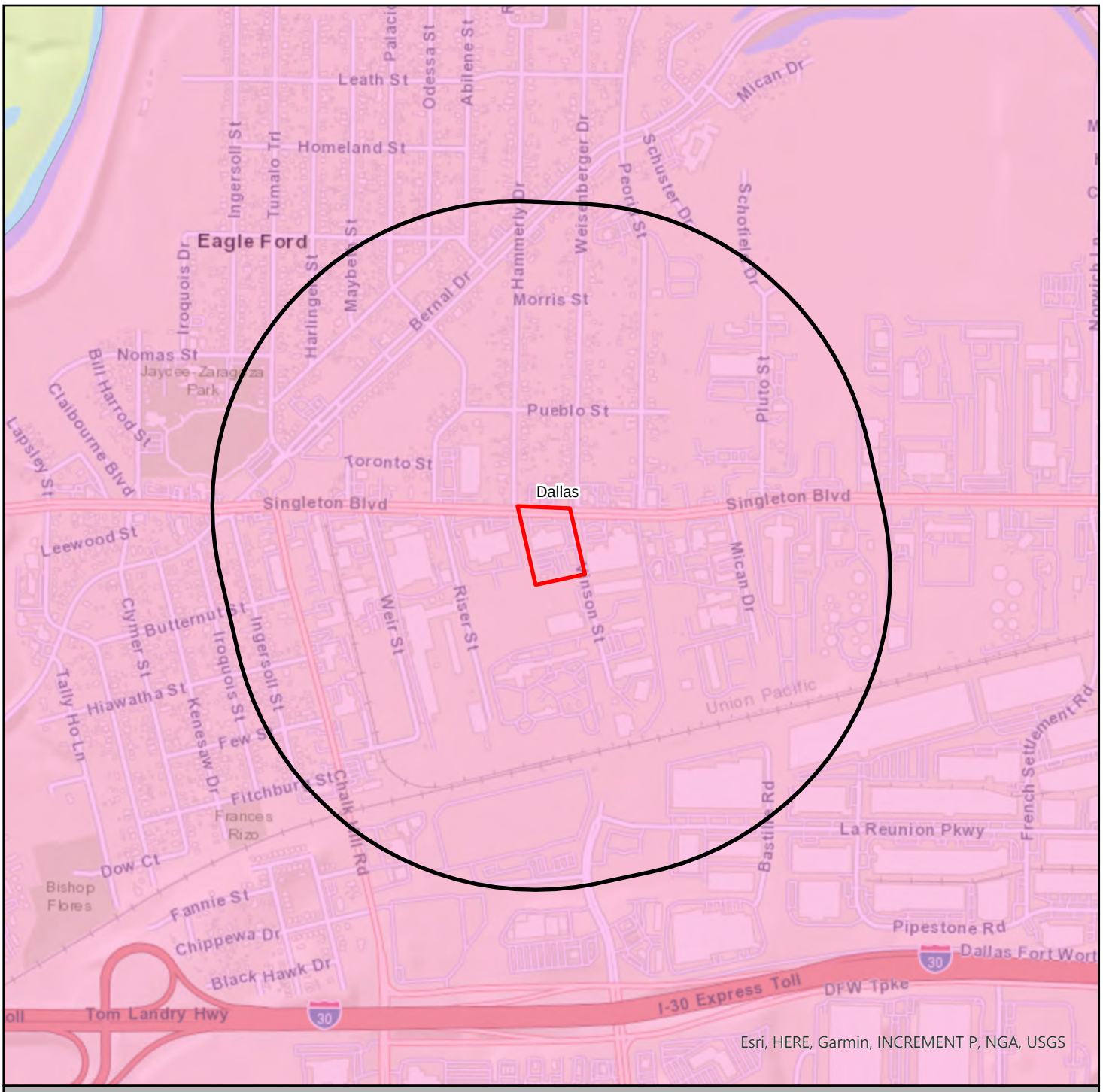
Municipal Boundaries - 0.5 Mile Buffer



Rebar Facility

Target Property

Half Mile Buffer

Dallas

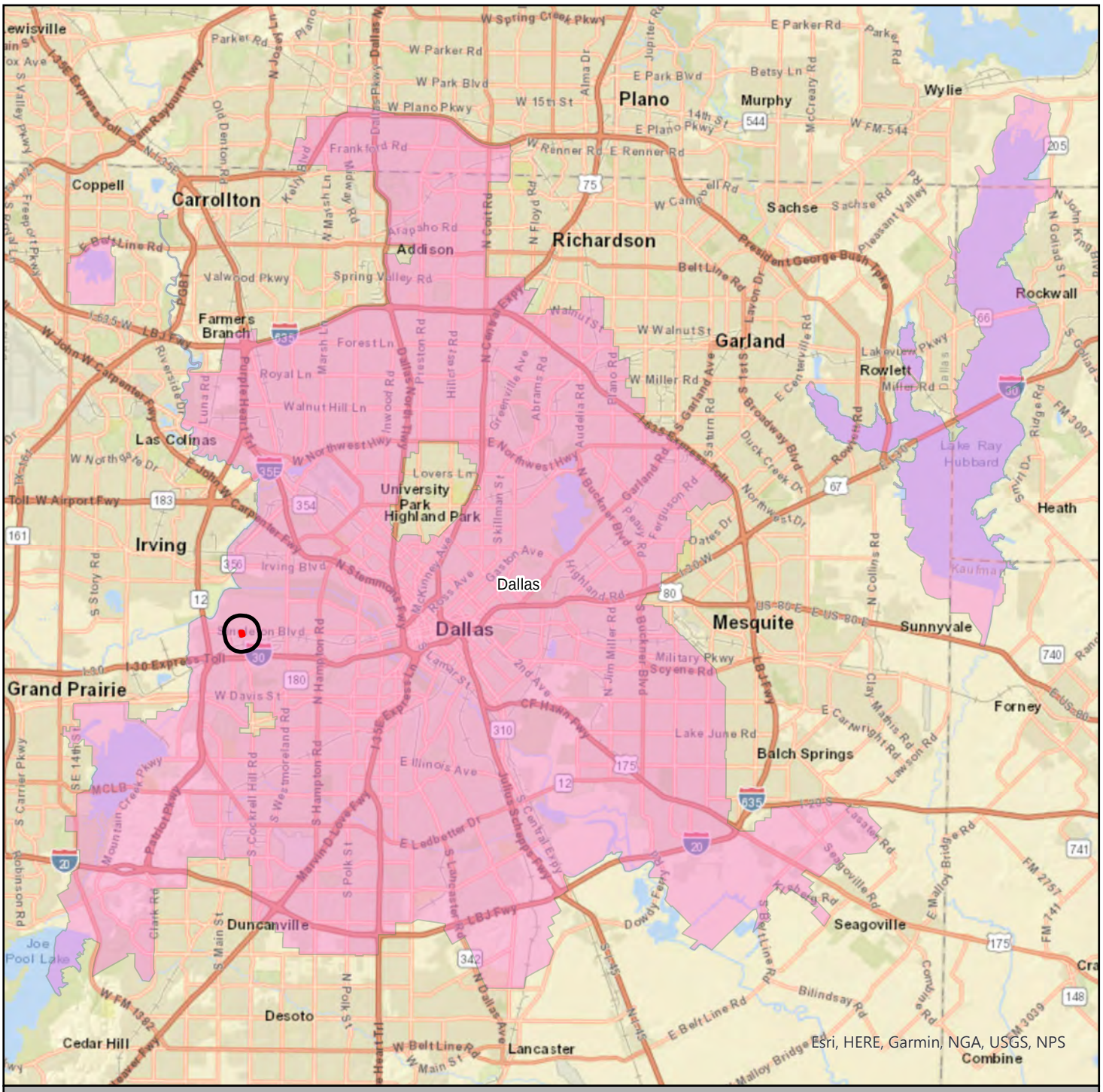
1:15,000

Lambert Conformal Conic Projection
1983 North American Datum
First Standard Parallel: 33 0' 00" North
Second Standard Parallel: 45 0' 00" North
Central Meridian: 96 0' 00" West
Latitude of Origin: 39 0' 00"

N

Source: U.S. Census

Municipal Boundaries



Rebar Facility

Target Property

Half Mile Buffer

Dallas

1:285,000

Lambert Conformal Conic Projection
1983 North American Datum
First Standard Parallel: 33 0' 00" North
Second Standard Parallel: 45 0' 00" North
Central Meridian: 96 0' 00" West
Latitude of Origin: 39 0' 00"

N

Source: U.S. Census

Section 21 - Municipal Water Utilities

A listing of each municipality, other than the City of Dallas, that owns or operates a groundwater supply well within five miles of the designated property; and a statement as to whether the applicant has provided notice as required by Section 361.805 of the Texas Health and Safety Code.

The Public Water System (PWS) Report dated March 6, 2024 compiled by Banks Environmental (Banks) identified four (4) operational groundwater supply wells within five (5) miles of the designated property. Of the operational wells listed, only one (1) well is associated with a municipality. The well is designated as S0570004C with a PWS listed as Dallas Water Utility. The well is listed with a depth of "0" feet and upon further research of the Banks information, the listed utility is not actually a water well. According to the Banks report, the listing is related to surface water sources from the Bachman Treatment Plant, Intake 3 of the Elm Fork Trinity River, East Side – 405 Long Creek Treatment Plant, Intake 2 of Ray Hubbard, Intake 1 – Iron Bridge (Lake Tawakoni), Elm Fork – 1440 Whitlock Treatment Plant, and Intake 4 – Elm Fork Trinity/Elm Fork.

Since no municipality other than the City of Dallas owns or operates a groundwater supply well within five (5) miles of the designated property, no notice in accordance with Section 361.805 of the Texas Health and Safety Code is required. A copy of the PWS Report is attached in Section 19. A summary of the PWS data is attached to this section.

Section 22 - Professional Certification

The following statement signed and sealed by a licensed professional engineer or licensed professional geoscientist authorized to practice in the state of Texas with expertise in environmental remediation:

To the best of my knowledge and belief, based upon a review of all public and private records and other information sources available to me in the exercise of due diligence, the opinions stated and conclusions made in this application are supported by such information, and the technical and scientific information submitted with the application is true, accurate, and complete. Based on such review, the contaminants of concern from sources on the designated property or migrating from or through the designated property more likely than not, DO NOT exceed a non-ingestion protective concentration level on property beyond the boundaries of the designated property.

09/10/25

Damon L. Johnson, PG
Program Manager
Modern Geosciences

Section 23 - Offsite Non-Ingestion PCLE Zones

If the licensed professional engineer or licensed professional geoscientist determines that contaminants of concern from sources on the designated property or migrating from or through the designated property more likely than not do exceed a non-ingestion protective concentration level on property beyond the boundaries of the designated property, then the applicant must:

A. Specify the name and address of the owner of each property.

B. Send a copy of the application to the owner of the property with the notice of the public meeting.

C. Provide documentation that the designated property has been included in a state or federal program that requires that the entire non-ingestion protective concentration level exceedance zone be addressed to the satisfaction of the agency administering the program, along with documentation of the estimated time period in which it is to be addressed. An example of such a program is the Texas Voluntary Cleanup Program (Section 361.601 of the Texas Health and Safety Code).

D. Provide documentation upon completion of the state or federal program showing that the non-ingestion protective concentration level exceedances have been addressed to the satisfaction of the agency administering the program.

Not applicable

Section 24 - Applicant Certification

The following statement certified by the applicant and any authorized representatives of the applicants listed in the application owners.

I certify under penalty of law that this application and all attachments were prepared under my direction or supervision in a manner designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the persons responsible for gathering and evaluating the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

GoodRE Singleton Investments LLC (Applicant) is the owner of fee title to the designated property that is the subject of this application and has the legal authority to restrict the use of groundwater at the designated property.

By: **GoodRE Singleton Investments LLC (Applicant)**

Signature: _____

Title: Authorized Agent/Applicant Representative

Date: 9-10-2025

STATE OF TEXAS ∋
∋
COUNTY OF DALLAS ∋

This instrument was acknowledged before me on this the 10th day of Sept, 2025, by Keeson Martin

_____

NOTARY PUBLIC, STATE OF TEXAS

Coleman Thomas Krauss
My Commission Expires
6/21/2026
Notary ID133822087

Coleman Thomas Krauss

Printed/Typed Name of Notary

My commission expires: 6-21-2026

Section 25 - TCEQ Application

A copy of the TCEQ application, if it has been filed, excluding attachments.

The Texas Commission on Environmental Quality (TCEQ) Application has not been filed at this time. Upon approval of this application, the Applicant will submit an application to the TCEQ for certification of the MSD.

Section 26 – Authority to Restrict Groundwater

The signature of the applicant and proof that the applicant has the legal authority to restrict the use of the groundwater on the designated property.

The Applicant is the owner of the Designated Property located at 4700 Singleton Blvd. It should be noted that legal authority to restrict groundwater is included in the certification provided in Section 24 and the deed in Section 3.

Section 27 - Filing Fee

The initial filing fee of $3,903 payable to "City of Dallas".

A copy of the Initial Filing Fee check is attached.

Section 28 – Supplemental Information

The 5-mile water well report and the Soil Vapor Investigation performed by Vertex is attached. Based on the results of the Soil Vapor Investigation, there is not a vapor intrusion concern at the Site.

Prepared for:

MODERN GEOSCIENCES
P.O. Box 92083
Southlake, TX 76092

BANKS ENVIRONMENTAL DATA
A DIVISION OF THE BANKS GROUP

Water Well Report

Rebar Facility

4700 Singleton Blvd

Dallas, TX

PO #: 23249

ES-143592

Tuesday, March 5, 2024

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Geographic Summary

Location
TX
Target location is 0.01 square miles and has a 0.41 mile perimeter

Coordinates	
Longitude & Latitude in Degrees Minutes Seconds	NA
Longitude & Latitude in Decimal Degrees	NA
X and Y in UTM	NA

Elevation
NA

Zip Codes Searched	
Search Distance	**Zip Codes (historical zip codes included)**
Target Property	75212
5 miles	75211, 75050, 75212, 75060, 75051, 75208, 75247, 75236, 75220, 75219, 75061, 75224, 75039, 75201, 75233, 75235, 75203, 75207, 75062

Topos Searched	
Search Distance	**Topo Name**
Target Property	Irving (1982)
5 miles	Duncanville (1982), Irving (1982), Oak Cliff (1982), Dallas (1982)

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Summary Map - 5 Mile Buffer

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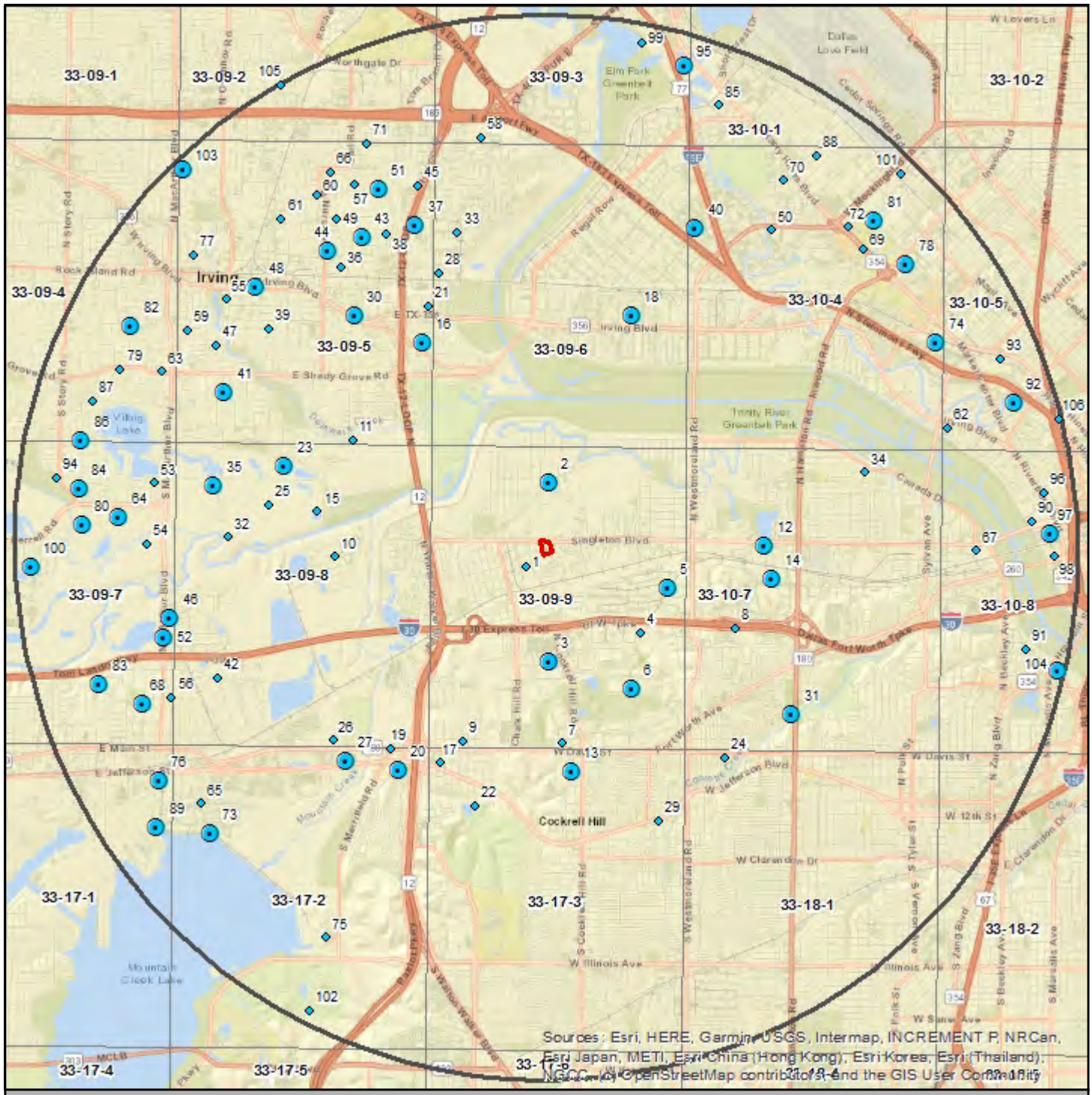
A DIVISION OF THE BANKS GROUP



Rebar Facility

Well

Well Cluster

Target Property

Search Buffer

Texas Quad Index

1 : 87,000

1 inch = 1.373 miles
1 inch = 7250 feet
1 centimeter = 0.870 kilometers
1 centimeter = 870 meters

N

Lambert Conformal Conic Projection
1983 North American Datum
First Standard Parallel: 33 0' 00" North
Second Standard Parallel: 45 0' 00" North
Central Meridian: 96 0' 00" West
Latitude of Origin: 39 0' 00" North

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Topographic Overlay Map - 5 Mile Buffer

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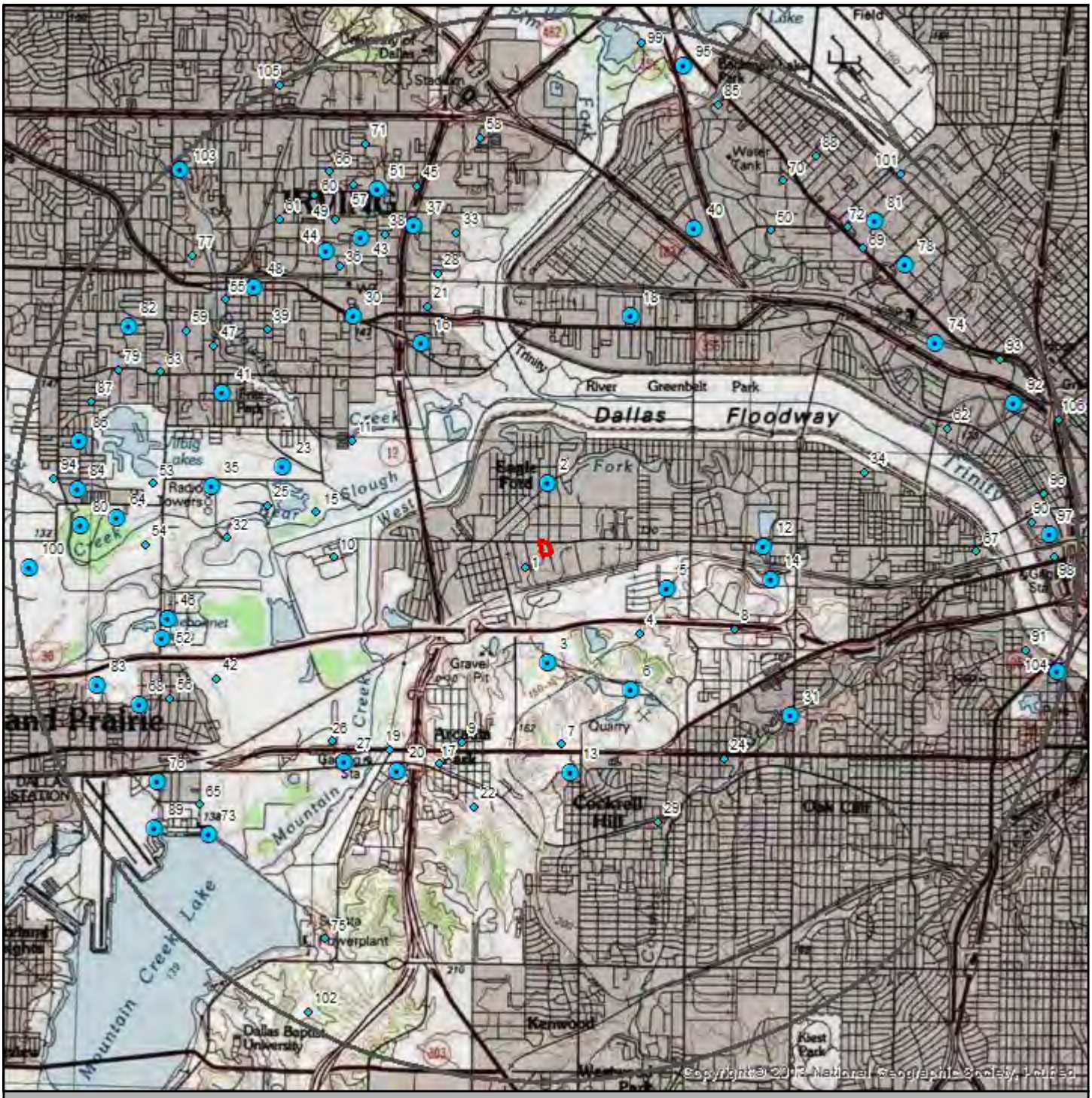

Rebar Facility

Well

Well Cluster

Target Property

Search Buffer

Target Property Quad Name(s)
Irving (1982)

1 : 87,000

1 inch = 1.373 miles
1 inch = 7250 feet

Lambert Conformal Conic Projection
1983 North American Datum
First Standard Parallel: 33 0' 00" North
Second Standard Parallel: 45 0' 00" North
Central Meridian: 96 0' 00" West
Latitude of Origin: 39 0' 00" North

N

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Current Imagery Overlay Map - 5 Mile Buffer

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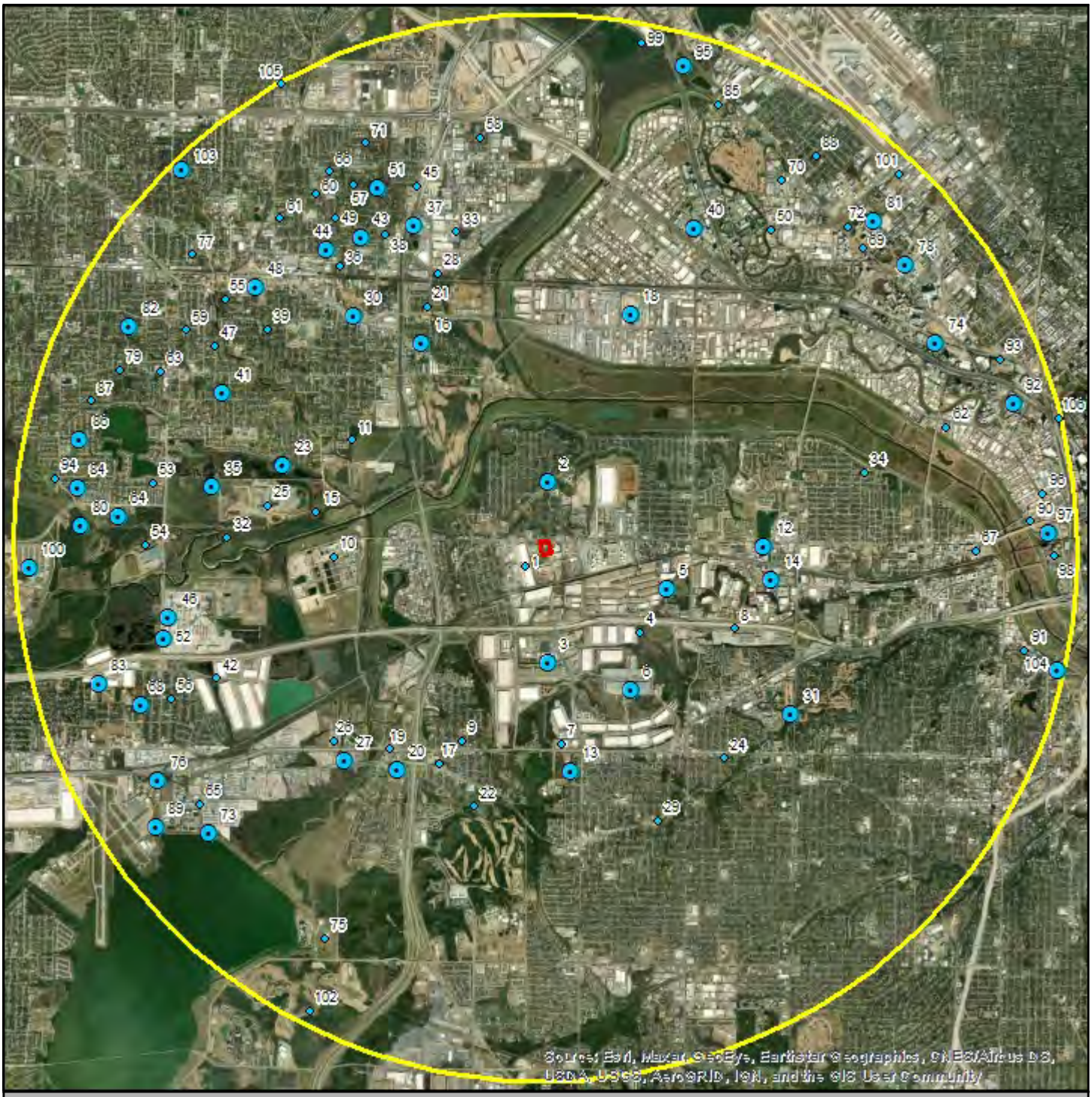

Rebar Facility

Well

Well Cluster

Target Property

Search Buffer

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N

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1983 North American Datum
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Central Meridian: 96 0' 00" West
Latitude of Origin: 39 0' 00" North

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Water Well Details

BANKS ENVIRONMENTAL DATA
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Map ID	Source ID	Dataset	Owner of Well	Type of Well	Depth Drilled	Completion Date	Longitude	Latitude	Elevation	Driller's Logs
1	539409	TX TWDB SDR	SINGLETON VENTURES	Other	5	2/6/2020	-96.9009	32.775	429 ft	View
2	3309904	TX TWDB GW	Independent Water Co	Unused	1325	01/01/1950	-96.8972	32.7867	412 ft	View
2	3309905	TX TWDB GW	Independent Water Co	Unused	728	01/01/1946	-96.8972	32.7869	414 ft	View
2	3309906	TX TWDB GW	INdependent Water	Unused	787	01/01/1947	-96.8975	32.7872	414 ft	View
3	3309907	TX TWDB GW	General Portland Cement	Unused	1550	01/01/1908	-96.8969	32.7619	477 ft	View
3	3309901	TX TWDB GW	General Portland Cement	Unused	1500	01/01/1940	-96.8947	32.7619	484 ft	View
4	3309910	TX TWDB GW	Texaco, Inc	Unused	2485	01/01/1923	-96.8822	32.7661	459 ft	View
5	3309909	TX TWDB GW	Texaco, Inc	Unused	2373	01/01/1913	-96.8775	32.7722	452 ft	View
5	3309911	TX TWDB GW	Texaco Inc	Unused	1392	01/01/1929	-96.8764	32.7742	452 ft	View
6	3309908	TX TWDB GW	General Portland Cement	Industrial	1514	1965-10-13	-96.8833	32.7583	569 ft	View
6	3309902	TX TWDB GW	General Portland Cement	Unused	2597	01/01/1950	-96.8836	32.7578	568 ft	View
6	3309903	TX TWDB GW	General Portland Cement	Industrial	2601	01/01/1957	-96.8806	32.7578	570 ft	View
7	433878	TX TWDB SDR	Taylor Farms	Public Supply	760	9/30/2016	-96.894708	32.750706	633 ft	View
8	439600	TX TWDB SDR	Anchor Construction	Irrigation	860	12/13/2016	-96.8667	32.7668	534 ft	View
9	33-09-9	TX TCEQ HIST	Dallas Calco Inc.	Irrigation	705	05/01/1990	-96.911006	32.750877	520 ft	View
10	3309801	TX TWDB GW	Trinity River Authority	Industrial	475	01/01/1973	-96.9322	32.7761	422 ft	View
11	3309511	TX TWDB GW	Shady Oaks Trailer Park	Public Supply	405	01/01/1969	-96.9294	32.7922	420 ft	View
12	3310701	TX TWDB GW	City of Dallas	Unused	2564	01/01/1952	-96.8619	32.7781	422 ft	View
12	3310702	TX TWDB GW	GAF Corp	Industrial	2525	01/01/1953	-96.8633	32.7781	422 ft	View
13	3317301	TX TWDB GW	Mount St. Michaels	Unused	2667	1947-07-04	-96.8931	32.7469	652 ft	View
13	3317302	TX TWDB GW	Mt. St. Michaels Home	Unused	1492	n/a	-96.8931	32.7469	652 ft	View
14	3310703	TX TWDB GW	Lone Star Cement Co	Unused	2544	01/01/1953	-96.8606	32.7736	444 ft	View
14	3310704	TX TWDB GW	Lone Star CementCo	Unused	2585	01/01/1956	-96.8606	32.7736	444 ft	View
15	526252	TX TWDB SDR	City Of Irving Landfill	Other	8	10/31/2019	-96.9351	32.7823	421 ft	View
16	33-09-5Z	TX TCEQ HIST	Delbert Edwards	Domestic	40	03/30/1981	-96.917972	32.805721	455 ft	View
16	33-09-5X	TX TCEQ HIST	Delbert Edwards	Domestic	50	04/07/1981	-96.91797	32.805839	454 ft	View
17	3317303	TX TWDB GW	Dallas Co. F.W.D. #1	Public Supply	556	n/a	-96.9147	32.7478	496 ft	View
18	33-01-8A	TX TCEQ HIST	C.J. Bender #1	Domestic	318	10/16/1968	-96.884008	32.809796	409 ft	View
18	33-01-8B	TX TCEQ HIST	C.J. Bender #2	Domestic	280	10/29/1968	-96.883998	32.809735	409 ft	View
19	3317205	TX TWDB GW	Not Reported	Domestic	534	n/a	-96.9228	32.7497	440 ft	View
20	33-17-2B	TX TCEQ HIST	Ben Parks	Domestic	464	03/30/1970	-96.921294	32.746814	468 ft	View
20	33-17-2B	TX TCEQ HIST	Hill Pet Shop	N/A	534	03/01/1969	-96.92112	32.746732	468 ft	View
21	33-09-6	TX TCEQ HIST	Michael Miesch	Irrigation	365	08/08/2002	-96.917434	32.810742	462 ft	View
22	255992	TX TWDB SDR	Dallas National Golf Club	Irrigation	2440	1/18/2011	-96.9089	32.7419	517 ft	View
23	33-09-8B	TX TCEQ HIST	Ray K. Neal	Domestic	30	11/06/1972	-96.940364	32.788572	419 ft	View
23	526253	TX TWDB SDR	City Of Irving Landfill	Other	8	10/31/2019	-96.9424	32.7866	425 ft	View
23	526255	TX TWDB SDR	City Of Irving Landfill	Other	5.3	10/31/2019	-96.9419	32.7865	426 ft	View
24	3318101	TX TWDB GW	City of Dallas	Unused	2652	n/a	-96.8683	32.7489	558 ft	View
25	3309802	TX TWDB GW	Gifford Hill and Co	Industrial	1180	01/01/1976	-96.9431	32.7831	408 ft	View
26	569643	TX TWDB SDR	Yello Belly Drag Trip	Irrigation	500	1/28/2021	-96.932	32.7508	428 ft	View
27	33-17-2C	TX TCEQ HIST	Cecil Farris	Domestic	60	09/17/1980	-96.929947	32.748025	433 ft	View
27	G0570180 A	TX TCEQ PWS	TEXAS SPORTS COMPLEX	Public Supply	0	n/a	-96.930389	32.750425	429 ft	View
27	33-09-8	TX TCEQ HIST	Marie Mims	Domestic	515	05/01/1986	-96.929659	32.75038	430 ft	View
27	33-09-8	TX TCEQ HIST	Marie Mims	Domestic	506	04/01/1986	-96.929767	32.750385	430 ft	View
28	3309601	TX TWDB GW	Petrocarbon Chemical Inc	Unused	443	01/01/1957	-96.9158	32.8153	437 ft	View
29	33-17-3A	TX TCEQ HIST	Texas Auto Salvage	Domestic	50	12/22/1972	-96.878935	32.740142	594 ft	View
30	33-09-5	TX TCEQ HIST	Oak Grove Memorial Gardens	Irrigation	470	09/28/2000	-96.929231	32.809337	482 ft	View
30	3309512	TX TWDB GW	C.E. Fann	Industrial	505	01/01/1966	-96.9314	32.8097	483 ft	View
31	3310705	TX TWDB GW	City of Dallas	Unused	2634	01/01/1930	-96.8572	32.755	477 ft	View
31	3310706	TX TWDB GW	Stevens Plaza Apartmnt	Public Supply	829	01/01/1964	-96.8589	32.7547	504 ft	View
32	33-09-8A	TX TCEQ HIST	Dr. Herman H. Plattner	Domestic	450	11/14/1966	-96.949584	32.778636	427 ft	View
33	33-09-6	TX TCEQ HIST	D.J. Barbaria	Domestic	100	05/01/1988	-96.912711	32.820981	457 ft	View
34	33-10-7	TX TCEQ HIST	Rev. P.B. Oldham Jr.	Domestic	40	06/20/1972	-96.845909	32.788458	408 ft	View

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Water Well Details

BANKS ENVIRONMENTAL DATA A DIVISION OF THE BANKS GROUP

Map ID	Source ID	Dataset	Owner of Well	Type of Well	Depth Drilled	Completion Date	Longitude	Latitude	Elevation	Driller's Logs
35	33-09-8	TX TCEQ HIST	Arthur Broyles	Domestic	410	09/01/1986	-96.951942	32.785642	425 ft	View
35	526260	TX TWDB SDR	City Of Irving Landfill	Other	4.8	10/31/2019	-96.9509	32.7865	426 ft	View
35	526262	TX TWDB SDR	City Of Irving Landfill	Other	6.3	10/31/2019	-96.951	32.7865	426 ft	View
36	131008	TX TWDB SDR	Bischofhausen, Richard	Domestic	160	10/30/2007	-96.9317	32.8161	487 ft	View
37	33-09-6	TX TCEQ HIST	Frito Lay, Inc.	Industrial	2300	05/01/2000	-96.919351	32.821942	475 ft	View
37	3309502	TX TWDB GW	City of Irving Well #5	Plugged or Destroyed	2309	01/01/1953	-96.9172	32.8206	476 ft	View
38	3309506	TX TWDB GW	George Foster	Unused	325	01/01/1950	-96.9244	32.8206	486 ft	View
39	33-09-5U	TX TCEQ HIST	Lucy C. McGee	Irrigation	32	06/01/1971	-96.943414	32.807396	478 ft	View
40	33-10-4	TX TCEQ HIST	Andersen Consulting	Industrial	1240	02/01/1993	-96.873703	32.821806	409 ft	View
40	3310406	TX TWDB GW	Andersen Consulting	Plugged or Destroyed	1366	12/01/1993	-96.8731	32.8211	407 ft	View
41	33-09-5Y	TX TCEQ HIST	W.H. Covington	Domestic	57	04/01/1981	-96.950311	32.798574	475 ft	View
41	33-09-5R	TX TCEQ HIST	T.O. Pritchett	Domestic	50	05/01/1970	-96.948555	32.799299	473 ft	View
41	32-16-6S	TX TCEQ HIST	D.J. Richter	Irrigation	45	08/01/1970	-96.947805	32.79911	470 ft	View
41	33-09-5	TX TCEQ HIST	Don Richter	Irrigation	60	06/28/1993	-96.94774	32.799144	469 ft	View
41	33-09-5D	TX TCEQ HIST	C.A. Phillips	Domestic	50	08/06/1969	-96.947881	32.799322	470 ft	View
41	33-09-5	TX TCEQ HIST	Jerry Thorn	Domestic	60	10/07/1988	-96.948464	32.798199	469 ft	View
42	1873	TX TWDB SDR	Deavers Construction L.P.	Industrial	458	6/26/2001	-96.9511	32.7592	432 ft	View
43	33-09-5Q	TX TCEQ HIST	Lowry C. Loveless	Domestic	42	08/02/1969	-96.92813	32.820095	493 ft	View
43	33-09-5K	TX TCEQ HIST	J.C. Kirkpatrick	Irrigation	46	03/15/1974	-96.928652	32.821474	497 ft	View
44	G0570050 A	TX TCEQ PWS	CITY OF IRVING	Public Supply	2250	07/07/1972	-96.933609	32.818333	491 ft	View
44	3309504	TX TWDB GW	City of Irving Well #2	Plugged or Destroyed	2267	01/01/1948	-96.9336	32.8186	491 ft	View
44	3309507	TX TWDB GW	City of Irving	Plugged or Destroyed	2250	1972-06-19	-96.9339	32.8186	491 ft	View
45	33-09-5N	TX TCEQ HIST	R.H. Lorin	Domestic	42	06/16/1964	-96.919238	32.827335	489 ft	View
46	G0570166 B	TX TCEQ PWS	FORTERRA PRESSURE PIPE GRAND PRAIRIE	Public Supply	950	06/08/1955	-96.958838	32.76747	433 ft	View
46	G0570166 C	TX TCEQ PWS	FORTERRA PRESSURE PIPE GRAND PRAIRIE	Public Supply	1158	06/10/2009	-96.959042	32.764978	432 ft	View
46	G0570166 A	TX TCEQ PWS	FORTERRA PRESSURE PIPE GRAND PRAIRIE	Public Supply	1160	08/01/1951	-96.959279	32.764821	433 ft	View
46	3309708	TX TWDB GW	Gifford Hill American	Industrial	450	01/01/1955	-96.9589	32.7678	432 ft	View
46	3309711	TX TWDB GW	Hanson Presure Pipe Well #2	Plugged or Destroyed	950	1955-06-08	-96.9589	32.7675	433 ft	View
46	184538	TX TWDB SDR	Hanson Pressure Pipe	Public Supply	35	6/10/2009	-96.9589	32.765	432 ft	View
46	G0570166 D	TX TCEQ PWS	FORTERRA PRESSURE PIPE GRAND PRAIRIE	Public Supply	450	12/29/2020	-96.9588	32.7673	432 ft	View
46	571545	TX TWDB SDR	Thompson Pipe Group	Public Supply	450	12/29/2020	-96.958808	32.767306	432 ft	View
47	33-09-5G	TX TCEQ HIST	Bill Harris	Irrigation	31	04/01/1972	-96.952062	32.805011	474 ft	View
48	3309503	TX TWDB GW	City of Irving Well #1	Plugged or Destroyed	2284	01/01/1945	-96.9453	32.8131	485 ft	View
48	3309509	TX TWDB GW	City of Irving Old well #2	Plugged or Destroyed	494	01/01/1939	-96.9478	32.8142	487 ft	View
48	3309510	TX TWDB GW	City of Irving Old well #3	Plugged or Destroyed	397	01/01/1924	-96.945	32.8139	485 ft	View
49	33-09-5V	TX TCEQ HIST	Morris F. Taylor	Irrigation	40	06/01/1972	-96.932587	32.822709	496 ft	View
50	151902	TX TWDB SDR	Comerica Bank	Industrial	750	8/25/2008	-96.8614	32.8217	414 ft	View
51	33-09-5F	TX TCEQ HIST	J. Dickens	Domestic	27	03/20/1974	-96.925442	32.826906	482 ft	View
51	33-09-5M	TX TCEQ HIST	Dr. Giles	Domestic	50	05/26/1964	-96.926728	32.82489	492 ft	View
51	33-09-6A	TX TCEQ HIST	Audie Langley	Domestic	30	06/25/1969	-96.92421	32.824686	473 ft	View
51	33-09-5X	TX TCEQ HIST	C.L. Parrish	Domestic	42	06/03/1973	-96.926919	32.824994	492 ft	View
51	33-09-5Q	TX TCEQ HIST	Glenn Herron	Irrigation	29	04/17/1976	-96.925643	32.827436	478 ft	View
51	33-09-5F	TX TCEQ HIST	Lee N. Clark	N/A	42	06/29/1969	-96.926625	32.826779	489 ft	View
51	33-09-5E	TX TCEQ HIST	Don Owen	Domestic	33	07/15/1969	-96.928093	32.828024	484 ft	View
52	3309707	TX TWDB GW	Gifford Hill American	Industrial	1102	01/01/1951	-96.9597	32.7647	433 ft	View
52	3309710	TX TWDB GW	Hanson Pressure Pipe Well #1	Public Supply	1160	8/01/1951	-96.9592	32.7647	433 ft	View

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Water Well Details

Map ID	Source ID	Dataset	Owner of Well	Type of Well	Depth Drilled	Completion Date	Longitude	Latitude	Elevation	Driller's Logs
52	3309712	TX TWDB GW	Hanson Pressure Pipe Well #3	Public Supply	1158	2009-03-02	-96.9592	32.7647	433 ft	View
53	33-09-7C	TX TCEQ HIST	Jack Gazin	Domestic	315	07/18/1966	-96.961768	32.786013	437 ft	View
54	33-09-7D	TX TCEQ HIST	C.B. Drinnan	Domestic	220	09/18/1967	-96.962884	32.777523	426 ft	View
55	33-09-5	TX TCEQ HIST	Clay Gilbert	Irrigation	63	08/21/1995	-96.95026	32.811426	481 ft	View
56	3309702	TX TWDB GW	City of Grand Prairie	Plugged or Destroyed	460	01/01/1950	-96.9586	32.7564	482 ft	View
57	33-09-5S	TX TCEQ HIST	Donald W. Adamson	Domestic	48	05/01/1970	-96.929584	32.827463	489 ft	View
58	33-09-3G	TX TCEQ HIST	Paul V. Perrin	Domestic	550	03/02/1966	-96.909066	32.834063	477 ft	View
59	33-09-5P	TX TCEQ HIST	C.R. Niford	N/A	60	06/15/1968	-96.956598	32.807124	480 ft	View
60	33-09-8	TX TCEQ HIST	Jack Yates	Irrigation	48	01/19/2000	-96.935844	32.825983	498 ft	View
61	33-09-5S	TX TCEQ HIST	Yong Ho Pak	Irrigation	402	12/08/1978	-96.941512	32.822619	495 ft	View
62	3310506	TX TWDB GW	Lone Star Industries	Industrial	50	01/01/1969	-96.8325	32.7947	408 ft	View
63	33-09-4	TX TCEQ HIST	Riaz Hassain	N/A	40	12/18/2003	-96.960718	32.801377	478 ft	View
64	33-09-7	TX TCEQ HIST	Westland Corp.	Domestic	420	09/01/1986	-96.96726	32.781299	433 ft	View
64	3309706	TX TWDB GW	Quiet Acres Trailer Park	Unused	291	01/01/1968	-96.9658	32.7817	429 ft	View
65	3317204	TX TWDB GW	Not Reported	Industrial	502	n/a	-96.9536	32.7419	453 ft	View
66	33-09-5T	TX TCEQ HIST	Fred W. Miller	Irrigation	35	05/01/1971	-96.933506	32.829165	497 ft	View
67	3310821	TX TWDB GW	Gifford-Hill and Co	Industrial	830	01/01/1973	-96.8275	32.7778	411 ft	View
68	G0570048 C	TX TCEQ PWS	CITY OF GRAND PRAIRIE	Public Supply	2163	07/01/1953	-96.963228	32.755503	483 ft	View
68	3309703	TX TWDB GW	City of Grand Prairie Well #16	Plugged or Destroyed	2163	7/01/1953	-96.9631	32.7556	484 ft	View
69	537668	TX TWDB SDR	DWU	Other	60	1/14/2020	-96.8464	32.8193	429 ft	View
70	33-10-4A	TX TCEQ HIST	Marvin McAdams	Domestic	45	04/04/1966	-96.859673	32.828586	448 ft	View
71	33-09-5F	TX TCEQ HIST	Alfred Piano	Domestic	42	07/04/1969	-96.927745	32.833101	501 ft	View
72	631383	TX TWDB SDR	Pediatric Health Management Services	Other	62	12/14/2022	-96.8489	32.8222	452 ft	View
73	3317202	TX TWDB GW	U.S. Naval Air Station	Public Supply	2156	n/a	-96.9519	32.7378	457 ft	View
73	3317203	TX TWDB GW	U.S. Naval Air Station	Public Supply	2118	n/a	-96.9517	32.7383	450 ft	View
74	3310404	TX TWDB GW	City of Dallas	Unused	1405	01/01/1910	-96.8342	32.8064	407 ft	View
74	3310405	TX TWDB GW	City of Dallas	Unused	693	01/01/1910	-96.8342	32.8064	407 ft	View
75	3317201	TX TWDB GW	Dallas Power and Light	Domestic	274	n/a	-96.9331	32.7236	540 ft	View
76	3317105	TX TWDB GW	U.S. Naval Air Station	Public Supply	485	n/a	-96.9603	32.745	458 ft	View
76	3317106	TX TWDB GW	U.S. Naval Air Station	Public Supply	417	n/a	-96.9603	32.745	458 ft	View
77	218951	TX TWDB SDR	Wesley Dawson	Irrigation	400	5/21/2010	-96.9558	32.8175	491 ft	View
78	427911	TX TWDB SDR	UT Southwestern Medical Center	Other	64	7/5/2016	-96.8392	32.8171	456 ft	View
78	427902	TX TWDB SDR	UT Southwestern Medical Center	Other	40	7/1/2016	-96.8397	32.8177	448 ft	View
79	33-09-6	TX TCEQ HIST	Rex Faulkner	Irrigation	295	01/28/1994	-96.967537	32.801567	483 ft	View
80	33-09-7	TX TCEQ HIST	Martha Ragsdale	Domestic	205	12/12/1989	-96.973209	32.780089	425 ft	View
80	33-09-7E	TX TCEQ HIST	Bill Welch	Domestic	60	10/02/1978	-96.972436	32.781454	424 ft	View
81	3310402	TX TWDB GW	Exchange Park Utilities	Industrial	1527	1/01/1956	-96.8444	32.8231	440 ft	View
81	631385	TX TWDB SDR	Pediatric Health Management Services	Other	67	12/18/2022	-96.847	32.8235	456 ft	View
81	631389	TX TWDB SDR	Pediatric Health Management Services	Other	42	12/12/2022	-96.8455	32.8249	449 ft	View
82	33-09-4F	TX TCEQ HIST	F.D. Gilbreath	Domestic	48	03/10/1969	-96.965728	32.807536	470 ft	View
82	33-09-4J	TX TCEQ HIST	F.C. Warming	N/A	50	05/01/1970	-96.96693	32.807157	476 ft	View
83	33-09-7	TX TCEQ HIST	Dealers Auto Auction	Other	477	08/07/1987	-96.970192	32.758291	455 ft	View
83	33-09-7	TX TCEQ HIST	Dealers Auto Auction	Other	316	07/25/1987	-96.970192	32.758006	458 ft	View
84	33-09-7	TX TCEQ HIST	Steffon Toth	Domestic	320	09/16/1990	-96.973871	32.785231	439 ft	View
84	33-09-7K	TX TCEQ HIST	Henderson Salvage	Domestic	44	05/15/1975	-96.974412	32.784975	435 ft	View
85	3310101	TX TWDB GW	Dallas County Park Cities Water	Unused	2400	01/01/1953	-96.8703	32.8389	442 ft	View
86	500476	TX TWDB SDR	City of Irving	Other	15	6/13/2018	-96.9736	32.7918	439 ft	View
86	500475	TX TWDB SDR	City of Irving	Other	15	6/12/2018	-96.9736	32.7917	439 ft	View

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Water Well Details

Map ID	Source ID	Dataset	Owner of Well	Type of Well	Depth Drilled	Completion Date	Longitude	Latitude	Elevation	Driller's Logs
86	500474	TX TWDB SDR	City of Irving	Other	15	6/12/2018	-96.9736	32.7919	438 ft	View
87	33-09-4L	TX TCEQ HIST	Robert U. Trocke	Irrigation	16	08/20/1976	-96.971985	32.797198	439 ft	View
88	33-10-4B	TX TCEQ HIST	Julia Alton Long	Domestic	48	06/12/1970	-96.854248	32.83203	448 ft	View
89	3317103	TX TWDB GW	Naval Air Station	Public Supply	417	n/a	-96.9606	32.7386	466 ft	View
89	3317104	TX TWDB GW	U.S. Naval Air Station	Public Supply	485	n/a	-96.9606	32.7369	463 ft	View
90	474889	TX TWDB SDR	Trademark Property Company	Other	30	2/8/2018	-96.8186	32.7819	401 ft	View
91	3310822	TX TWDB GW	City of Dallas	Unused	2750	01/01/1924	-96.8194	32.7642	404 ft	View
92	408669	TX TWDB SDR	Feizy Properties, Ltd	Extraction	62	11/5/2015	-96.8214	32.7982	404 ft	View
92	408668	TX TWDB SDR	Feizy Properties, Ltd	Extraction	61	11/5/2015	-96.8219	32.7982	404 ft	View
93	3310507	TX TWDB GW	City of Dallas	Unused	1423	01/01/1907	-96.8239	32.8042	398 ft	View
94	33-09-5G	TX TCEQ HIST	A.S. Wochner	Domestic	273	06/10/1971	-96.977855	32.786545	434 ft	View
95	S0570078 A	TX TCEQ PWS	DALLAS COUNTY PARK CITIES MUD	Public Supply	0	n/a	-96.875772	32.844319	409 ft	View
95	537670	TX TWDB SDR	DWU	Other	40	1/13/2020	-96.873008	32.843406	428 ft	View
96	3310802	TX TWDB GW	Dallas Power and Light	Industrial	2728	01/01/1950	-96.8167	32.7858	401 ft	View
97	482125	TX TWDB SDR	Trademark Property Company	Other	30	4/18/2018	-96.8154	32.7803	399 ft	View
97	474896	TX TWDB SDR	Trademark Property Company	Other	30	2/8/2018	-96.8154	32.7803	399 ft	View
97	482126	TX TWDB SDR	Trademark Property Company	Other	30	4/18/2018	-96.8154	32.7803	399 ft	View
97	474894	TX TWDB SDR	Trademark Property Company	Other	30	2/8/2018	-96.8175	32.78	400 ft	View
97	474892	TX TWDB SDR	Trademark Property Company	Other	30	2/8/2018	-96.8163	32.7828	401 ft	View
98	3310815	TX TWDB GW	Dallas Concrete Co	Unused	856	01/01/1952	-96.8147	32.7772	417 ft	View
99	S0570004 C	TX TCEQ PWS	DALLAS WATER UTILITY	Public Supply	0	n/a	-96.882927	32.847271	412 ft	View
100	33-09-7B	TX TCEQ HIST	C. W. McCoy	Domestic	324	08/12/1965	-96.981497	32.774241	433 ft	View
100	311821	TX TWDB SDR	Lone Star Park	Industrial	410	1/28/2013	-96.9822	32.7728	427 ft	View
101	33-10-4	TX TCEQ HIST	J.D. Brown	Domestic	40	11/03/1971	-96.84051	32.829627	470 ft	View
102	33-17-2	TX TCEQ HIST	U S Dept of Veterans Affairs	Irrigation	1264	07/01/1999	-96.935472	32.713547	479 ft	View
103	3309501	TX TWDB GW	City of Irving Old #3 Well	Plugged or Destroyed	2184	01/01/1952	-96.9575	32.8292	494 ft	View
103	G0570050 B	TX TCEQ PWS	CITY OF IRVING	Public Supply	2170	09/29/1971	-96.957222	32.829166	497 ft	View
103	3309508	TX TWDB GW	City of Irving	Plugged or Destroyed	2170	1971-09-09	-96.9575	32.8292	494 ft	View
104	3310820	TX TWDB GW	Oak Farms Dairy	Industrial	1700	n/a	-96.8139	32.7614	420 ft	View
104	3310827	TX TWDB GW	City of Dallas	Unused	0	01/01/1912	-96.8142	32.7625	389 ft	View
105	87297	TX TWDB SDR	INSURANCE DESIGN	Domestic	100	5/29/2004	-96.9417	32.8411	533 ft	View
106	3310501	TX TWDB GW	Dallas Power and Light	Unused	2735	01/01/1948	-96.8142	32.7961	411 ft	View

Well Summary

Water Well Dataset	# of Wells
TX TCEQ HIST	67
TX TCEQ PWS	10
TX TWDB GW	66
TX TWDB SDR	36
Total Count	**179**

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STATE OF TEXAS WELL REPORT for Tracking #539409

Owner:	**SINGLETON VENTURES**	Owner Well #:	**SGMP-1 TO 18**
Address:	**4900 SINGLETON AVE DALLAS, TX 75212**	Grid #:	**33-09-9**
Well Location:	**4900 SINGLETON AVE DALLAS, TX 75212**	Latitude:	**32° 46' 30.13" N**
		Longitude:	**096° 54' 03.38" W**
Well County:	**Dallas**	Elevation:	**No Data**
Number of Wells Drilled:	**18**		
Type of Work:	**SOIL BORING**	Proposed Use:	**SOIL GAS VAPOR POINT**

Drilling Start Date: **2/6/2020** Drilling End Date: **2/6/2020**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**2**	**0**	**5**

Drilling Method: **Direct Push**

Borehole Completion: **Plugged**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **No Data**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Description (number of sacks & material)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Plug Information:	**Bentonite**	**0**	**5**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **RIOMAR DRILLING INC**

9213 MONTANA STREET
JOSHAU, TX 76058

Driller Name: **DARRIN S. STARK SR.** License Number: **54891**

Apprentice Name: **JORDAN STARK**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**5**	**TOP SOIL,CLAY**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-904

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3309904
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.786667
Latitude (degrees minutes seconds)	32° 47' 12" N
Longitude (decimal degrees)	-96.897222
Longitude (degrees minutes seconds)	096° 53' 50" W
Coordinate Source	+/- 1 Second
Aquifer Code	218PLXY - Paluxy Sand
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	413
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	1325
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1950
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	Yes
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Independent Water Co
Driller	C.M. Stoner Drilling
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 3/1/1953 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Municipal Water Agency or Public Water Supply Corp

Sampled Aquifer: Paluxy Sand

Analyzed Lab: Texas Department of Health **Reliability:** Reliability unknown or not available

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		420	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		512.55	mg/L	
00910	CALCIUM (MG/L)		8	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		25	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		32	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		200	ug/L	
00920	MAGNESIUM (MG/L)		3	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.6	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.75		
00955	SILICA, DISSOLVED (MG/L AS SI02)		16	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		20.05		
00932	SODIUM, CALCULATED, PERCENT		94	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		262	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		140	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		707	mg/L	

Water Quality Analysis

Sample Date: 11/7/1955 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Municipal Water Agency or Public Water Supply Corp

Sampled Aquifer: Paluxy Sand

Analyzed Lab: Texas Department of Health **Reliability:** Reliability unknown or not available

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		30	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		420	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		439.32	mg/L	
00910	CALCIUM (MG/L)		3	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		36	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		28	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		11	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)	<	20	ug/L	
00920	MAGNESIUM (MG/L)		1	mg/L	
01055	MANGANESE, TOTAL (UG/L AS MN)	<	100	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.17		
00955	SILICA, DISSOLVED (MG/L AS SI02)		12	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		35		
00932	SODIUM, CALCULATED, PERCENT		98	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		274	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		142	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		713	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-905

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3309905
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.786945
Latitude (degrees minutes seconds)	32° 47' 13" N
Longitude (decimal degrees)	-96.897222
Longitude (degrees minutes seconds)	096° 53' 50" W
Coordinate Source	+/- 1 Second
Aquifer Code	212WDBN - Woodbine Sand
Aquifer	Woodbine
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	413
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	728
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1946
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	Yes
Pump	Turbine
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Independent Water Co
Driller	N.C. Andrews
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 9/23/1948 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Municipal Water Agency or Public Water Supply Corp

Sampled Aquifer: Woodbine Sand

Analyzed Lab: Texas Department of Health **Reliability:** Reliability unknown or not available

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		15	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		490	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		561.36	mg/L	
00910	CALCIUM (MG/L)		25	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		18	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		138	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.4	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		74	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		200	ug/L	
00920	MAGNESIUM (MG/L)		3	mg/L	
01055	MANGANESE, TOTAL (UG/L AS MN)	<	100	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.31		
00955	SILICA, DISSOLVED (MG/L AS SI02)		10	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		24.76		
00932	SODIUM, CALCULATED, PERCENT		93	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		492	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		413	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1377	mg/L	

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-906

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3309906
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.787222
Latitude (degrees minutes seconds)	32° 47' 14" N
Longitude (decimal degrees)	-96.8975
Longitude (degrees minutes seconds)	096° 53' 51" W
Coordinate Source	+/- 1 Second
Aquifer Code	212WDBN - Woodbine Sand
Aquifer	Woodbine
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	413
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	787
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1947
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	Yes
Pump	Turbine
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	INdependent Water
Driller	N.C. Andrews
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 9/23/1948 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Municipal Water Agency or Public Water Supply Corp

Sampled Aquifer: Woodbine Sand

Analyzed Lab: Texas Department of Health **Reliability:** Reliability unknown or not available

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		490	mg/L as CACO3	
00910	CALCIUM (MG/L)		28	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		138	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.4	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		98	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		200	ug/L	
00920	MAGNESIUM (MG/L)		7	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.6	SU	
00955	SILICA, DISSOLVED (MG/L AS SI02)		12	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		21.28		
00932	SODIUM, CALCULATED, PERCENT		91	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		486	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		424	mg/L as SO4	

Water Quality Analysis

Sample Date: 3/1/1953 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Municipal Water Agency or Public Water Supply Corp

Sampled Aquifer: Woodbine Sand

Analyzed Lab: Texas Department of Health **Reliability:** Reliability unknown or not available

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		4	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		545	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		655.33	mg/L	
00910	CALCIUM (MG/L)		18	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		4.8	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		238	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.8	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		69	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		400	ug/L	
00920	MAGNESIUM (MG/L)		6	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		31	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.4	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		9.51		
00955	SILICA, DISSOLVED (MG/L AS SI02)		26	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		27.32		
00932	SODIUM, CALCULATED, PERCENT		94	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		524	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		291	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1462	mg/L	

Water Quality Analysis

Sample Date: 10/8/1975 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:**

Sampled Aquifer: Woodbine Sand

Analyzed Lab: **Reliability:** Reliability unknown or not available

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		365	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		445	mg/L	
00910	CALCIUM (MG/L)		16	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		261	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		0.6	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		42	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		1	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		4.7	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.1	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		6.41		
00955	SILICA, DISSOLVED (MG/L AS SI02)		13	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		24.98		
00932	SODIUM, CALCULATED, PERCENT		94	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		381	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1700	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		145	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		22	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1041	mg/L	

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-907

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3309907
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.761945
Latitude (degrees minutes seconds)	32° 45' 43" N
Longitude (decimal degrees)	-96.896945
Longitude (degrees minutes seconds)	096° 53' 49" W
Coordinate Source	+/- 1 Second
Aquifer Code	218PLXY - Paluxy Sand
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	475
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	1550
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1908
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	Yes
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	General Portland Cement
Driller	B.J. Harper
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 7/8/1942 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Other Federal Agencies

Sampled Aquifer: Paluxy Sand

Analyzed Lab: University of Texas **Reliability:** Reliability unknown or not available

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		385.25	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		470.14	mg/L	
00910	CALCIUM (MG/L)		8.4	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		17	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		32	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		2.7	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		3	mg/L as NO3	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.06		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		19.67		
00932	SODIUM, CALCULATED, PERCENT		94	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		257	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		170	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		690	mg/L	

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-901

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3309901
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.761945
Latitude (degrees minutes seconds)	32° 45' 43" N
Longitude (decimal degrees)	-96.894722
Longitude (degrees minutes seconds)	096° 53' 41" W
Coordinate Source	+/- 10 Seconds
Aquifer Code	218PLXY - Paluxy Sand
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	492
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	1500
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1940
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	No
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	General Portland Cement
Driller	J.L. Myers Sons
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-910

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3309910
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.766112
Latitude (degrees minutes seconds)	32° 45' 58" N
Longitude (decimal degrees)	-96.882222
Longitude (degrees minutes seconds)	096° 52' 56" W
Coordinate Source	+/- 10 Seconds
Aquifer Code	218TPPX - Travis Peak Formation and Paluxy Sand
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	460
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	2485
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1923
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	Yes
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Texaco, Inc
Driller	B.J. Harper
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 7/1/1942 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Other Federal Agencies

Sampled Aquifer: Travis Peak Formation and Paluxy Sand

Analyzed Lab: University of Texas **Reliability:** Reliability unknown or not available

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		395.08	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		482.13	mg/L	
00910	CALCIUM (MG/L)		8.8	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		79	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.2	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		42	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		5.1	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		0	mg/L as NO3	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.04		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		30.41		
00932	SODIUM, CALCULATED, PERCENT		95	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		445	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		481	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1257	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-909

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3309909
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.772222
Latitude (degrees minutes seconds)	32° 46' 20" N
Longitude (decimal degrees)	-96.8775
Longitude (degrees minutes seconds)	096° 52' 39" W
Coordinate Source	+/- 10 Seconds
Aquifer Code	218TWMT - Twin Mountains Formation
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	450
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	2373
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1913
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	Yes
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Texaco, Inc
Driller	The Texaco Co
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 7/1/1942 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Other Federal Agencies

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: University of Texas **Reliability:** Reliability unknown or not available

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		409.84	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		500	mg/L	
00910	CALCIUM (MG/L)		13	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		79	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		53	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		5	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		3	mg/L as NO3	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.13		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		28.68		
00932	SODIUM, CALCULATED, PERCENT		95	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		480	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		543	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1370	mg/L	

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-911

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3309911
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.774167
Latitude (degrees minutes seconds)	32° 46' 27" N
Longitude (decimal degrees)	-96.876389
Longitude (degrees minutes seconds)	096° 52' 35" W
Coordinate Source	+/- 10 Seconds
Aquifer Code	218PLXY - Paluxy Sand
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	450
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	1392
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1929
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	Yes
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Texaco Inc
Driller	B.J.Harper
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 7/1/1942 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Other Federal Agencies

Sampled Aquifer: Paluxy Sand

Analyzed Lab: University of Texas **Reliability:** Reliability unknown or not available

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		27	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		537	mg/L	
00910	CALCIUM (MG/L)		4	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		49	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.4	mg/L	
00920	MAGNESIUM (MG/L)		3	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		0	mg/L as NO3	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.35		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		30.38		
00932	SODIUM, CALCULATED, PERCENT		96	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		330	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		222	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		873	mg/L	

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-908

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3309908
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.758334
Latitude (degrees minutes seconds)	32° 45' 30" N
Longitude (decimal degrees)	-96.883334
Longitude (degrees minutes seconds)	096° 53' 00" W
Coordinate Source	+/- 1 Second
Aquifer Code	218PLXY - Paluxy Sand
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	575
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	1514
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	10/13/1965
Drilling Method	Mud (Hydraulic) Rotary
Borehole Completion	Gravel Pack w/Screen

Well Type	Withdrawal of Water
Well Use	Industrial
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	Turbine
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	General Portland Cement
Driller	Layne-Texas
Other Data Available	Aquifer Test; Drillers Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	5/27/1975
Last Update Date	3/4/2020

Remarks	Reported yield 327 GPM in 1965. Aquifer test results in TDWR R-269. Test data and modern results in TWDB files.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
14	Blank	Steel			0	1365
9	Blank	Steel			0	1263
9	Blank	Steel			1263	1375
9	Screen	Stainless Steel			1375	1400
9	Blank	Steel			1400	1410
9	Screen	Stainless Steel			1410	1452
9	Blank	Steel			1452	1472
9	Screen	Stainless Steel			1472	1504
9	Blank	Steel			1504	1514

Well Tests - No Data

Lithology - No Data

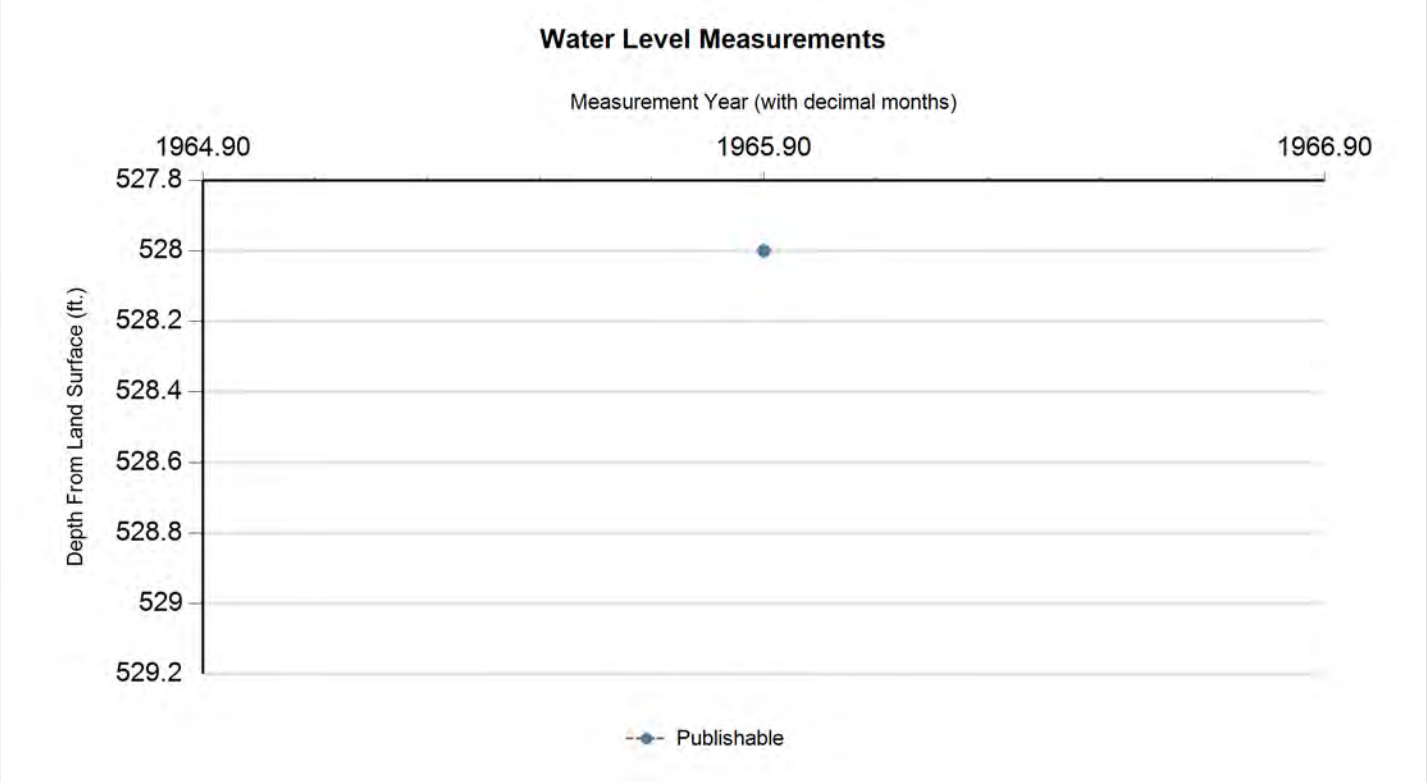
Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	11/29/1965		528		47	1	Registered Water Well Driller	Air Line		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis

Sample Date: 12/6/1965 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Registered Water Well Driller

Sampled Aquifer: Paluxy Sand

Analyzed Lab: Edna Wood Lab **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		20	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		420	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		463.73	mg/L	
00910	CALCIUM (MG/L)		2	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		24	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		20	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		7	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		100	ug/L	
00920	MAGNESIUM (MG/L)		0.5	mg/L	
00400	PH (STANDARD UNITS), FIELD		9.2	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.26		
00955	SILICA, DISSOLVED (MG/L AS SI02)		12	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		39.36		
00932	SODIUM, CALCULATED, PERCENT		98	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		273	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1140	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		146	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		32	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		705	mg/L	

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-902

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3309902
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.757778
Latitude (degrees minutes seconds)	32° 45' 28" N
Longitude (decimal degrees)	-96.883611
Longitude (degrees minutes seconds)	096° 53' 01" W
Coordinate Source	+/- 1 Second
Aquifer Code	218TWMT - Twin Mountains Formation
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	575
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	2597
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1950
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	Yes
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	General Portland Cement
Driller	J.L. Myers Sons
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 7/17/1959 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Private Firm or Industry

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: Southwestern Analytical Chemicals **Reliability:** Reliability unknown or not available

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		259.93	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		317.2	mg/L	
00910	CALCIUM (MG/L)		233.56	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		64	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		824	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		58.79	mg/L	
00400	PH (STANDARD UNITS), FIELD		8.3	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
00955	SILICA, DISSOLVED (MG/L AS SI02)		18.8	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		17.27		
00932	SODIUM, CALCULATED, PERCENT		74	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		1137.39	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		2832.35	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		4500	mg/L	

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-903

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3309903
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.757778
Latitude (degrees minutes seconds)	32° 45' 28" N
Longitude (decimal degrees)	-96.880555
Longitude (degrees minutes seconds)	096° 52' 50" W
Coordinate Source	+/- 1 Second
Aquifer Code	218TWMT - Twin Mountains Formation
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	564
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	2601
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1957
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Industrial
Water Level Observation	None
Water Quality Available	Yes
Pump	Turbine
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	General Portland Cement
Driller	Layne-Texas Co
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 7/24/1959 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Private Firm or Industry

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: Southwestern Analytical Chemicals **Reliability:** Reliability unknown or not available

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		16	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		415.89	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		468.48	mg/L	
00910	CALCIUM (MG/L)		4.3	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		19.2	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		108	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		15	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		1.05	mg/L	
00400	PH (STANDARD UNITS), FIELD		8.6	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.02		
00955	SILICA, DISSOLVED (MG/L AS SI02)		16.8	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		37.89		
00932	SODIUM, CALCULATED, PERCENT		97	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		327.9	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		153.08	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		860	mg/L	

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STATE OF TEXAS WELL REPORT for Tracking #433878

Owner:	**Taylor Farms**	Owner Well #:	**1**
Address:	**1001 N. Cockrell Hill Rd. Dallas, TX 75211**	Grid #:	**33-09-9**
Well Location:	**1001 N. Cockrell Hill Rd, Dallas, TX, TX 75211**	Latitude:	**32° 45' 02.52" N**
		Longitude:	**096° 53' 40.92" W**
	Adjacent to south side of building.	Elevation:	**No Data**
Well County:	**Dallas**		
Type of Work:	**New Well**	Proposed Use:	**Public Supply**

Drilling Start Date: **8/30/2016** Drilling End Date: **9/30/2016** **Plans Approved by TCEQ - YES**
PWS# P-1105201

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**9.5**	**0**	**760**

Drilling Method: **Air Rotary**

Borehole Completion: **Screened**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**600**	**Cement 35 Bags/Sacks**

Seal Method: **Pressure**

Sealed By: **Driller**

Distance to Property Line (ft.): **>150'**

Distance to Septic Field or other concentrated contamination (ft.): **>50'**

Distance to Septic Tank (ft.): **>150'**

Method of Verification: **Tape**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **350 ft.** below land surface on **2016-09-30** Measurement Method: **Steel Tape**

Packers: **Rubber**

Type of Pump: **Submersible** Pump Depth (ft.): **580**

Well Tests: **Pump** **Yield: 60 GPM with 100 ft. drawdown after 36 hours**

	Description (number of sacks & material)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Plug Information:	**Cement**	**0**	**660**

	Strata Depth (ft.)	Water Type
Water Quality:	**660 - 760**	**good**

Chemical Analysis Made: **Yes**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

The driller did certify that while drilling, deepening or otherwise altering the above described well, injurious water or constituents was encountered and the landowner or person having the well drilled was informed that such well must be completed or plugged in such a manner as to avoid injury or pollution.

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Andrus Drilling Co.**

206 Westpark Dr. N
McKinney, TX 75071

Driller Name: **Matt Andrus** License Number: **54440**

Comments: **Good well.**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
660	**750**	**Woodbine Fm.**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #439600

Owner:	**Anchor Construction**	Owner Well #:	**No Data**
Address:	**7121 Grape Rd. Granger, IN 46530**	Grid #:	**33-10-7**
Well Location:	**2895 West Commerce Street Dallas, TX 75212**	Latitude:	**32° 46' 00.53" N**
		Longitude:	**096° 52' 00.24" W**
Well County:	**Dallas**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

Drilling Start Date: **12/9/2016** Drilling End Date: **12/13/2016**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**12.25**	**0**	**860**

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**390**	**860**	**Gravel**	**12/20**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**210**	**Cement 36 Bags/Sacks**
	320	**390**	**Bentonite 13 Bags/Sacks**

Seal Method: **Pumped**

Sealed By: **Quasar**

Distance to Property Line (ft.): **Over 50**

Distance to Septic Field or other concentrated contamination (ft.): **Over 50**

Distance to Septic Tank (ft.): **Over 50**

Method of Verification: **Tape**

Surface Completion: **Steel Cased** **Surface Completion by Driller**

Water Level: **519 ft.** below land surface on **2016-12-20** Measurement Method: **Air Line**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **693**

Well Tests: **Yield: 250 GPM with 90 ft. drawdown after 2 hours**

	Strata Depth (ft.)	Water Type
Water Quality:	**580 - 700**	**Paluxy**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Barco Well Service, LP**

PO Box 2406
Keller, TX 76424

Driller Name: **Jason M. Flynt** License Number: **59359**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	20	Fill Dirt / Gray Shale
20	60	Gray Shale / Rock
60	400	Gray shale
400	420	Sandy Gray Shale
420	480	Sand / Gray Shale / Lime Streaks
480	500	Sand
500	600	Sand / Brown Shale
600	640	Brown Shale / Green Shale
640	680	Sand
680	700	Sand / Lime Streaks
700	720	Gray Shale / lime
720	740	Gray Shale / Tan Shale
740	860	Gray Shale

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
6.625	Blank	New Steel		0	609
6.625	Screen	New Stainless Steel	0.020	609	672
6.625	Blank	New Steel		672	714
6.625	Screen	New Stainless Steel	0.020	714	735
6.625	Blank	New Steel		735	860

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

Please use black ink.
Send original copy by certified mail to the
Texas Water Commission
P.O. Box 13087
Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

Texas Water Well Drillers Board
P. O. Box 13087
Austin, Texas 78711

1) OWNER Dallas Calco Inc. (Name) Address 714 N. Justin (Street or RFD) Dallas (City) Tx. (State) 75211 (Zip)

2) LOCATION OF WELL:
County Dallas _____ miles in _____ (N.E., S.W., etc.) direction from _____ (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☑ See attached map.

3) TYPE OF WORK (Check):
☑ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):
☐ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☑ Irrigation ☐ Test Well ☐ Injection ☐ Other _____

5) DRILLING METHOD (Check): ☐ Driven
☑ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored ☐ Air Rotary ☐ Cable Tool ☐ Other _____

6) WELL LOG:
Date Drilling: Started 5/ 1990 Completed 5/ 1990

DIAMETER OF HOLE Dia. (in.)	From (ft.)	To (ft.)
7 7/8	Surface	705

From (ft.)	To (ft.)	Description and color of formation material
0	4	Black + Yellow Clay Topsoil
4	8	Yellow clay
8	12	Sandy yellow clay w/gravel
12	20	Yellow clay
20	50	Blue shale
50	55	Blue shale w/iron pyrite
55	180	Blue shale
180	250	Blue + gray shale
250	265	Blue shale w/lime str.
265	360	Blue + gray shale
360	380	Sandy gray shale
380	460	gray shale
460	500	gray shale w/sand str.
500	520	coarse sand
520	550	gray shale
550	610	gray shale w/sand str.
610	625	coarse sand
625	690	gray shale w/sand str.
690	700	coarse sand
700	705	gray shale

T.D.

RECEIVED
AUG 9 1990
TEXAS WATER COMMISSION

(Use reverse side if necessary)

7) BOREHOLE COMPLETION:
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☑ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from 320 ft. to 705 ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgf., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
5½	N	PVC	+2	705	
		Perf	365	705	1/16

9) CEMENTING DATA [Rule 319.44(b)]
Cemented from +1 ft. to 320 ft. No. of Sacks Used 40
_____ ft. to _____ ft. No. of Sacks Used _____
Method used Trimmie Pipe
Cemented by T.B.

10) SURFACE COMPLETION
☐ Specified Surface Slab Installed [Rule 319.44(c)]
☐ Pitless Adapter Used [Rule 319.44(d)]
☑ Approved Alternative Procedure Used [Rule 319.71]

11) WATER LEVEL:
Static level 360 ft. below land surface Date 5/90
Artesian flow _____ gpm. Date _____

12) PACKERS: Type Depth
NONE

13) TYPE PUMP:
☐ Turbine ☐ Jet ☑ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 460 ft.
5hp 3ph

14) WELL TESTS:
Type Test: ☐ Pump ☑ Bailer ☐ Jetted ☑ Estimated
Yield: 10 gpm with N.A ft. drawdown after 2 hrs.

15) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☑ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☑ No

I here by certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 12 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME Tom Evans Drilling (Type or Print) Water Well Driller's License No. 2483

ADDRESS Box 7 (Street or RFD) Rhome (City) Tx. (State) 76078 (Zip)

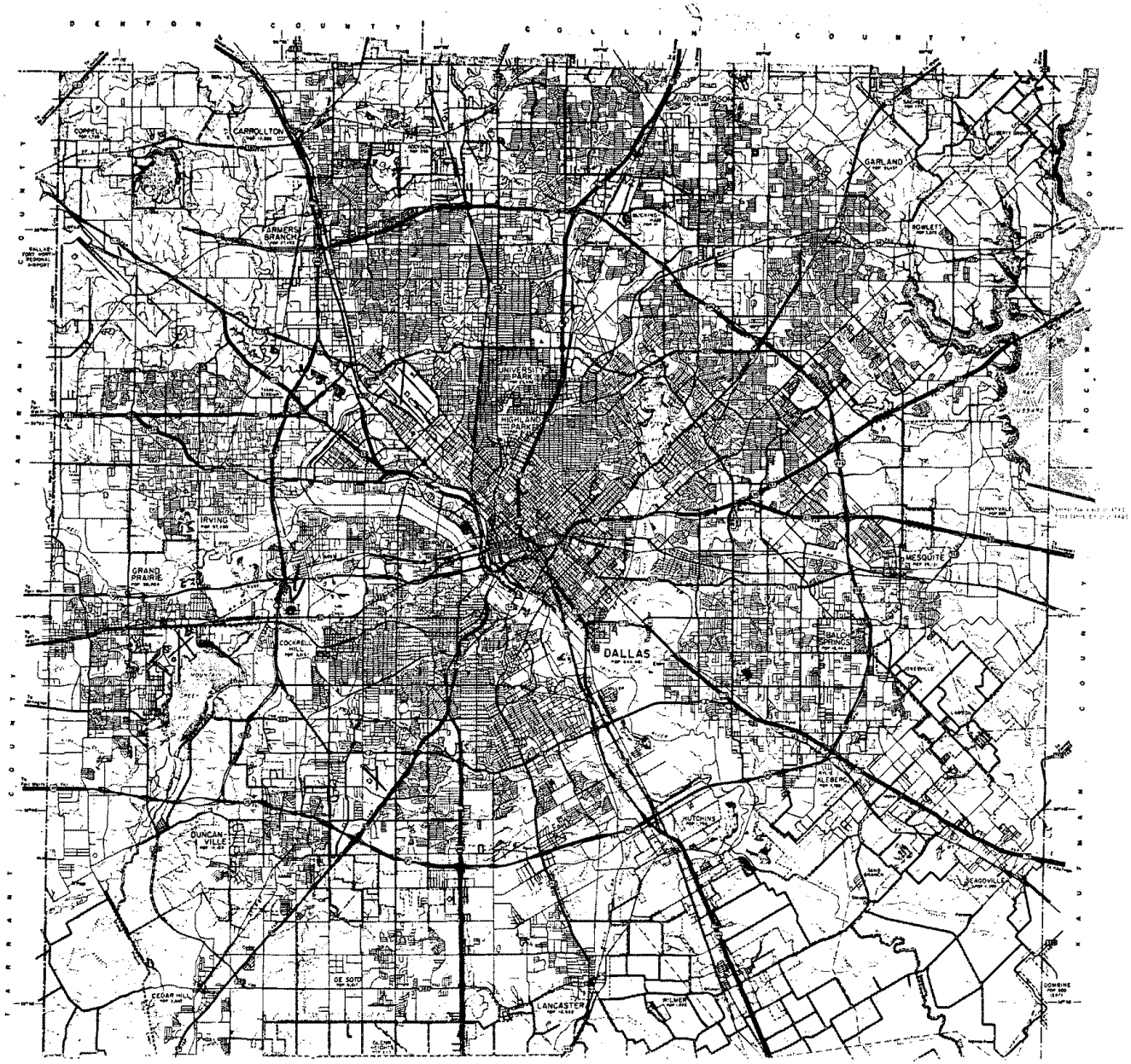
(Signed) Tom C. Evans (Licensed Water Well Driller) (Signed) _____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only
Well No. 33-09-9
Located on map _____

WWD-012 (Rev.01-28-87)

TEXAS WATER COMMISSION COPY



LEGEND

KEY TO COUNTIES

GENERAL HIGHWAY MAP

DALLAS COUNTY TEXAS

PREPARED BY THE
STATE DEPARTMENT OF HIGHWAYS
AND PUBLIC TRANSPORTATION
TRANSPORTATION PLANNING DIVISION
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

SCALES

1975

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-801

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3309801
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.776111
Latitude (degrees minutes seconds)	32° 46' 34" N
Longitude (decimal degrees)	-96.932222
Longitude (degrees minutes seconds)	096° 55' 56" W
Coordinate Source	+/- 1 Second
Aquifer Code	212WDBN - Woodbine Sand
Aquifer	Woodbine
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	430
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	475
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1973
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Industrial
Water Level Observation	None
Water Quality Available	Yes
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Trinity River Authority
Driller	E.C. Stone Water Well Drilling
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 5/27/1975 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Woodbine Sand

Analyzed Lab: Texas Department of Health **Reliability:** From well not sufficiently pumped; not filtered or preserved

Collection Remarks: pressure tank

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		437	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		533.29	mg/L	
00910	CALCIUM (MG/L)		4.8	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		76	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.2	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		14	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		0.61	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		1	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.1	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.45		
00955	SILICA, DISSOLVED (MG/L AS SI02)		12	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		48.49		
00932	SODIUM, CALCULATED, PERCENT		98	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		454	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		2240	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		457	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		23	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1269	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-511

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3309511
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.792222
Latitude (degrees minutes seconds)	32° 47' 32" N
Longitude (decimal degrees)	-96.929444
Longitude (degrees minutes seconds)	096° 55' 46" W
Coordinate Source	+/- 1 Second
Aquifer Code	212WDBN - Woodbine Sand
Aquifer	Woodbine
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	430
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	405
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1969
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	None
Water Quality Available	Yes
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Shady Oaks Trailer Park
Driller	A.B. Hoipkemeier Drilling
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 6/2/1975 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Woodbine Sand

Analyzed Lab: Texas Department of Health **Reliability:** From well not sufficiently pumped; not filtered or preserved

Collection Remarks: pressure tank

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		451	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		550.38	mg/L	
00910	CALCIUM (MG/L)		4	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		96	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.7	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		11	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		0.4	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		2.7	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		7.8	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.79		
00955	SILICA, DISSOLVED (MG/L AS SI02)		12	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		57.93		
00932	SODIUM, CALCULATED, PERCENT		98	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		500	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		2394	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		497	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		23	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1384	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-10-701

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3310701
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.778055
Latitude (degrees minutes seconds)	32° 46' 41" N
Longitude (decimal degrees)	-96.861945
Longitude (degrees minutes seconds)	096° 51' 43" W
Coordinate Source	+/- 10 Seconds
Aquifer Code	218TWMT - Twin Mountains Formation
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	418
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	2564
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1952
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	No
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	City of Dallas
Driller	J.L. Myers Sons
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	CITY OF DALLAS 42
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-10-702

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3310702
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.778055
Latitude (degrees minutes seconds)	32° 46' 41" N
Longitude (decimal degrees)	-96.863334
Longitude (degrees minutes seconds)	096° 51' 48" W
Coordinate Source	+/- 10 Seconds
Aquifer Code	218TWMT - Twin Mountains Formation
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	440
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	2525
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1953
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Industrial
Water Level Observation	None
Water Quality Available	Yes
Pump	Turbine
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	GAF Corp
Driller	Layne-Texas Co
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 0/0/1961 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Private Firm or Industry

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: Laboratory Unknown **Reliability:**

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		33.33	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		392.8	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		398	mg/L	
00910	CALCIUM (MG/L)		10	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		40	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		117	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		45	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		5	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		6.95		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		51.97		
00932	SODIUM, CALCULATED, PERCENT		97	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		806	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		266	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1439	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-17-301

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3317301
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.746945
Latitude (degrees minutes seconds)	32° 44' 49" N
Longitude (decimal degrees)	-96.893056
Longitude (degrees minutes seconds)	096° 53' 35" W
Coordinate Source	+/- 1 Second
Aquifer Code	218TWMT - Twin Mountains Formation
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	651
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	2667
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	7/4/1947
Drilling Method	Mud (Hydraulic) Rotary
Borehole Completion	Gravel Pack w/Perforations

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	Miscellaneous Measurements
Water Quality Available	No
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Mount St. Michaels
Driller	J.L. Myers
Other Data Available	Drillers Log; Electric Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	8/24/1994
Last Update Date	3/4/2020

Remarks	

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
16	Blank	Steel			0	18
10	Blank	Steel			0	800
7	Blank	Steel			800	2520
6	Blank	Steel			2500	2520
6	Screen	Steel			2520	2620
6	Blank	Steel			2620	2667

Well Tests - No Data

Lithology - No Data

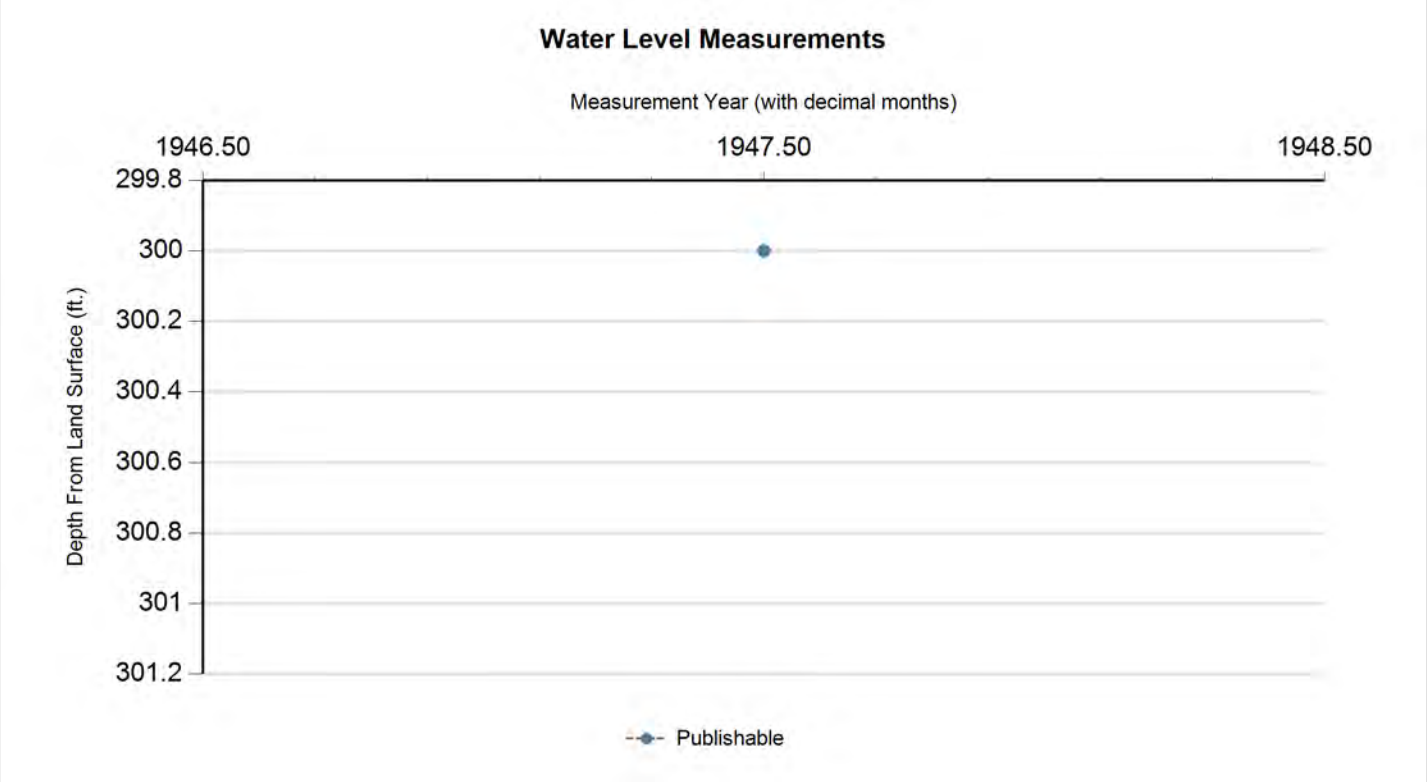
Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	7/4/1947		300		351	1	Registered Water Well Driller	Unknown		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis - No Data Available

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-17-302

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3317302
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.746945
Latitude (degrees minutes seconds)	32° 44' 49" N
Longitude (decimal degrees)	-96.893056
Longitude (degrees minutes seconds)	096° 53' 35" W
Coordinate Source	+/- 5 Seconds
Aquifer Code	218PLXY - Paluxy Sand
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	649
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	1492
Well Depth Source	Owner
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	Yes
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Mt. St. Michaels Home
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	8/24/1994
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 7/8/1942 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Other Federal Agencies

Sampled Aquifer: Paluxy Sand

Analyzed Lab: University of Texas **Reliability:** Reliability unknown or not available

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		400	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		488.14	mg/L	
00910	CALCIUM (MG/L)		4.4	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		26	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.8	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		22	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		2.7	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		3	mg/L as NO3	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.56		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		25.96		
00932	SODIUM, CALCULATED, PERCENT		96	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		282	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		185	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		744	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-10-703

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3310703
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.773611
Latitude (degrees minutes seconds)	32° 46' 25" N
Longitude (decimal degrees)	-96.860556
Longitude (degrees minutes seconds)	096° 51' 38" W
Coordinate Source	+/- 10 Seconds
Aquifer Code	218TWMT - Twin Mountains Formation
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	435
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	2544
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1953
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	No
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Lone Star Cement Co
Driller	J.L. Myers Sons
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-10-704

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3310704
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.773611
Latitude (degrees minutes seconds)	32° 46' 25" N
Longitude (decimal degrees)	-96.860556
Longitude (degrees minutes seconds)	096° 51' 38" W
Coordinate Source	+/- 10 Seconds
Aquifer Code	218TWMT - Twin Mountains Formation
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	435
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	2585
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1956
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	No
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Lone Star CementCo
Driller	J.L. Myers Sons
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.

STATE OF TEXAS WELL REPORT for Tracking #526252

Owner:	**City Of Irving Landfill**	Owner Well #:	**UV-5**
Address:	**110 E. Hunter Ferrell Road Irving, TX 75060**	Grid #:	**33-09-8**
Well Location:	**110 Hunter Ferrell Road Irving, TX 75060**	Latitude:	**32° 46' 56.16" N**
		Longitude:	**096° 56' 06.24" W**
Well County:	**Dallas**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Utility Trench Vent**

Drilling Start Date: **10/31/2019** Drilling End Date: **10/31/2019**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8.5**	**0**	**8**

Drilling Method: **Hydro-vac**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**0.5**	**1**	**Sand**	**10/20**
	1	**8**	**Gravel**	**0.375**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**0.5**	**Bentonite 1 Bags/Sacks**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **C&S Lease**

1873 FM 1252 E
Kilgore, TX 75663

Driller Name: **Buford E. Collier** License Number: **50089**

Apprentice Name: **David Diduch** Apprentice Number: **60297**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**8**	**Silty, Fat Clay with Gravel, Moist**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	**Riser**	**New Plastic (PVC)**	**40**	**0**	**1**
2	**Screen**	**New Plastic (PVC)**	**40 0.020**	**1**	**8**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

Send original copy by certified mail to the Texas Department of Water Resources P. O. Box 13087 Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

For TDWR use only
Well No. 33-09-5Z
Located on map
Received:

1) OWNER Delbert Edwards (Name) Address 1936 Edgewood (Street or RFD) Irving, Tx. (City) 75060 (State) (Zip)

2) LOCATION OF WELL: County Dallas 2 miles in E (N.E., S.W., etc.) direction from Irving (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

☒ See attached map.

3) TYPE OF WORK (Check): ☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check): ☒ Domestic ☐ Industrial ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check): ☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored ☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:

Date drilled 3-30-81

DIAMETER OF HOLE Dia. (in.)	From (ft.)	To (ft.)
8 3/4	Surface	40

From (ft.)	To (ft.)	Description and color of formation material
0	6	Top Soil
6	38	Sand
38	40	Shale

(Use reverse side if necessary)

7) BOREHOLE COMPLETION: ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☒ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from 6 ft. to 40 ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgf., if commercial	Setting (ft.) From	To	Gage Casing Screen
6	N	Plastic	0	20	sc40
6	N	Slotted	20	40	1/16

RECEIVED
JUL 21 1982
CR/TDWR

CEMENTING DATA
Cemented from 0 ft. to 6 ft.
Method used Gravity
Cemented by C. K. Curtiss (Company or Individual)

9) WATER LEVEL:
Static level _____ ft. below land surface Date _____
Artesian flow _____ gpm. Date _____

10) PACKERS: Type Depth

11) TYPE PUMP: ☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder ☐ Other _____
Depth to pump bowls, cylinder, jet, etc., _____ ft.

12) WELL TESTS: ☐ Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.

13) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☒ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME C. K. Curtiss (Type or Print) Water Well Drillers Registration No. 1875

ADDRESS 520 North Haskell (Street or RFD) Dallas (City) Texas (State) 75246 (Zip)

(Signed) [signature] (Water Well Driller) Kentry Well Drilling (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

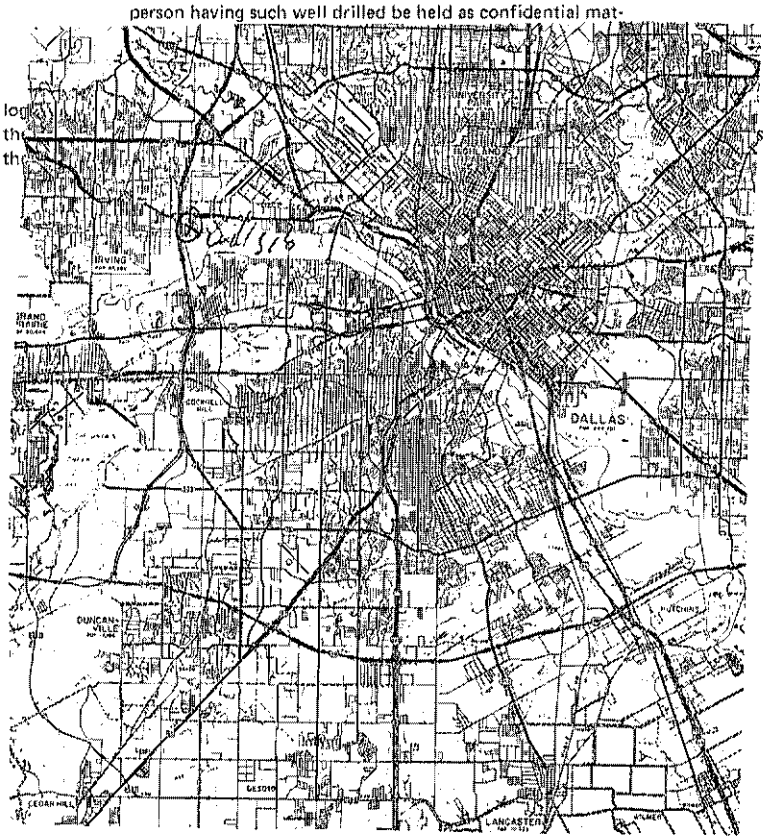
TDWR-0392 (Rev. 1-12-79) DEPARTMENT OF WATER RESOURCES COPY

4811300281

HAVING WELLS DRILLED CONCERNING
PRIVILEGE OF CONFIDENTIALITY

The Water Well Drillers Board and the Department of Water Resources are concerned that some persons having water wells drilled may not be aware of the confidentiality privilege provision of Section 5 of the Water Well Drillers Act. Section 5, the Reporting of Well Logs, reads as follows:

> "Every registered water well driller drilling, deepening, or otherwise altering a water well within this State shall make and keep, or cause to be made and kept, a legible and accurate well log, and within sixty (60) days from the completion or cessation of drilling, deepening or otherwise altering such a water well, shall deliver or transmit by certified mail a copy of such well log to the Commission, and the owner thereof or the person having had such well drilled. The well log required herein shall at the request in writing to the Commission, by certified mail, by the owner or the person having such well drilled be held as confidential mat-



33-09-52

RECEIVED
JUN 17 1982

① DUP

Send original copy by certified mail to the Texas Department of Water Resources P. O. Box 13087 Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

For TDWR use only
Well No. 33-09-5X
Located on map
Received:

1) OWNER Delbert Edwards (Name) Address 1936 Edgewood (Street or RFD) Irving, Tx (City) 75060 (State) (Zip)

2) LOCATION OF WELL:
County Dallas, 2 miles in E (N.E., S.W., etc.) direction from Dallas (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☒ See attached map.

3) TYPE OF WORK (Check):
☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):
☒ Domestic ☐ Industrial ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check):
☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored ☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:
Date drilled 4-7-81

DIAMETER OF HOLE Dia. (in.)	From (ft.)	To (ft.)
8 3/4	Surface	50

7) BOREHOLE COMPLETION:
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☒ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from 10 ft. to 50 ft.

From (ft.)	To (ft.)	Description and color of formation material
0	15	Sand & Clay
15	25	Clay
25	40	Clay & Shale
40	45	Shale & Gravel
45	50	Shale

(Use reverse side if necessary)

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgf., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
6	N	Plastic	0	30	sc40
6	N	Slotted	30	50	1/16

CEMENTING DATA
Cemented from 0 ft. to 10 ft.
Method used Gravity
Cemented by C. K. Curtiss (Company or Individual)

RECEIVED
JUL 21 1982
CR/TDWR

9) WATER LEVEL:
Static level 29 ft. below land surface Date 4-7-81
Artesian flow _____ gpm. Date _____

10) PACKERS: Type Depth

11) TYPE PUMP:
☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., _____ ft.

12) WELL TESTS:
☐ Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.

13) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☒ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME C. K. Curtiss (Type or Print) Water Well Drillers Registration No. 1875

ADDRESS 520 North Haskell (Street or RFD) Dallas (City) Texas (State) 75246 (Zip)

(Signed) C K Curtiss (Water Well Driller) Kentry Waterwells (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

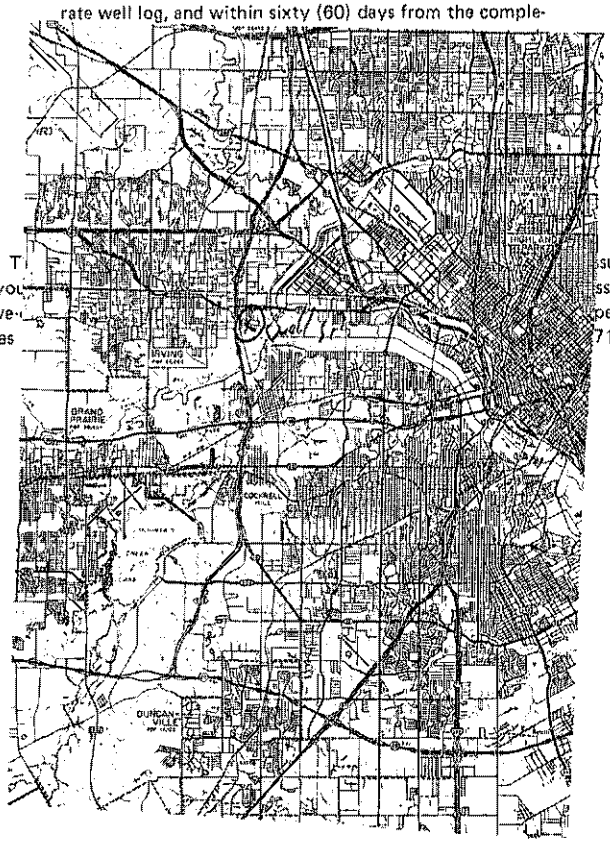
WR-0392 (Rev. 1-12-79) DEPARTMENT OF WATER RESOURCES COPY

4811300278

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING PRIVILEGE OF CONFIDENTIALITY

The Water Well Drillers Board and the Department of Water Resources are concerned that some persons having water wells drilled may not be aware of the confidentiality privilege provision of Section 5 of the Water Well Drillers Act. Section 5, the Reporting of Well Logs, reads as follows:

> "Every registered water well driller drilling, deepening, or otherwise altering a water well within this State shall make and keep, or cause to be made and kept, a legible and accurate well log, and within sixty (60) days from the comple-



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33-09-5X

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-17-303

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3317303
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.747778
Latitude (degrees minutes seconds)	32° 44' 52" N
Longitude (decimal degrees)	-96.914723
Longitude (degrees minutes seconds)	096° 54' 53" W
Coordinate Source	+/- 10 Seconds
Aquifer Code	212WDBN - Woodbine Sand
Aquifer	Woodbine
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	492
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	556
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	None
Water Quality Available	Yes
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Dallas Co. F.W.D. #1
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 8/12/1942 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Other Federal Agencies

Sampled Aquifer: Woodbine Sand

Analyzed Lab: University of Texas **Reliability:** Reliability unknown or not available

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		480.33	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		586.17	mg/L	
00910	CALCIUM (MG/L)		12	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		87	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.2	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		36	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		1.5	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		1.5	mg/L as NO3	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.89		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		31.97		
00932	SODIUM, CALCULATED, PERCENT		96	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		454	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		399	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1244	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.

33-01-8A

Send original copy by certified mail to the Texas Water Development Board P. O. Box 12386 Austin, Texas 78711

State of Texas

WATER WELL REPORT

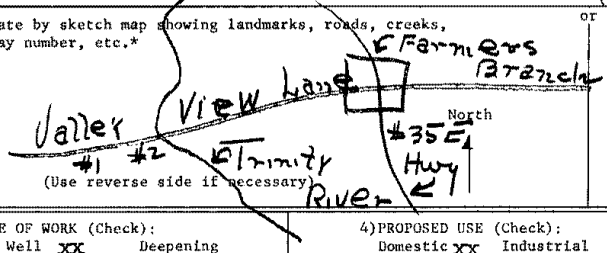
For TWDB use only
Well No. 33-01-8A
Located on map
Received: 49

1) OWNER:
Person having well drilled C. J. Bender #1 (Name) Address 4001 Irving Blvd., Dallas, Texas (Street or RFD) (City) (State)

Landowner C. J. Bender (Name) Address 4001 Irving Blvd., Dallas, Texas (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Dallas, 2½ miles in S.W. (N.E., S.W., etc.) direction from Farmers Branch (Town)

Locate by sketch map showing landmarks, roads, creeks, hiway number, etc.*



(Use reverse side if necessary)

or

Give legal location with distances and directions from adjacent sections or survey lines.

Labor _____ League _____

Block _____ Survey _____

Abstract No. _____

(NW¼ NE¼ SW¼ SE¼) of Section _____

3) TYPE OF WORK (Check):
New Well XX Deepening
Reconditioning Plugging

4) PROPOSED USE (Check):
Domestic XX Industrial Municipal
Irrigation Test Well Other

5) TYPE OF WELL (Check):
Rotary XX Driven Dug
Cable Jetted Bored

6) WELL LOG:
Diameter of hole 6¼" in. Depth drilled 318 ft. Depth of completed well 318 ft. Date drilled 10-16-68

All measurements made from 0 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0'	6'	Black top soil
6'	16'	Brown clay
16'	22'	Sand and gravel
22'	166'	Shale
166'	174'	Sand
174'	182'	Shale
182'	190'	Sand
190'	222'	Shale and sandy shale
222'	244'	Sand
244'	290'	Shale and sandy shale
290'	312'	Sand-clean
312'	318'	Shale

(Use reverse side if necessary)

9) Casing:
Type: Old New XX Steel Plastic Other
Cemented from 290' ft. to 0' ft.

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Gage
4½" o.d.	0	290'	9½#

10) SCREEN:
Type None
Perforated Slotted

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Slot Size

7) COMPLETION (Check):
Straight wall XX Gravel packed Other
Under reamed Open Hole

8) WATER LEVEL:
Static level 92 ft. below land surface Date 10-16-68
Artesian pressure _____ lbs. per square inch Date _____
Depth to pump bowls, cylinder, jet, etc., 189 ft. below land surface.

11) WELL TESTS:
Was a pump test made? Yes XX No If yes, by whom? J.W.Pierce
Yield: 13.3 gpm with _____ ft. drawdown after 1 hrs.
Bailer test _____ gpm with _____ ft. drawdown after _____ hrs.
Artesian flow 0 gpm
Temperature of water _____

12) WATER QUALITY:
Was a chemical analysis made? Yes No X
Did any strata contain undesirable water? Yes No X
Type of water? Woodbine depth of strata 152

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME John Wentworth Pierce (Type or Print) Water Well Drillers Registration No. 401

ADDRESS 10715 Hines Blvd. (Street or RFD) Dallas (City) Texas 75220 (State)

(Signed) J. W. Pierce (Water Well Driller) PIERCE PUMP COMPANY (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

TWDBE-GW-53

33-01-8B

Send original copy by certified mail to the Texas Water Development Board P. O. Box 12386 Austin, Texas 78711

State of Texas

WATER WELL REPORT

For TWDB use only
Well No. 33-01-8B
Located on map yes
Received: 6-9
db

1) OWNER:
Person having well drilled C. J. Bender #2 (Name) Address 4001 Irving Blvd., Dallas, Texas (Street or RFD) (City) (State)

Landowner C. J. Bender (Name) Address 4001 Irving Blvd., Dallas, Texas (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Dallas, 2-1/8 miles in S.W. (N.E., S.W., etc.) direction from Farmers Branch (Town)

Locate by sketch map showing landmarks, roads, creeks, hiway number, etc.*

See drawing for C. J. Bender #1 which shows both wells.

North

(Use reverse side if necessary)

or

Give legal location with distances and directions from adjacent sections or survey lines.

Labor _____ League _____

Block _____ Survey _____

Abstract No. _____

(NW¼ NE¼ SW¼ SE¼) of Section _____

3) TYPE OF WORK (Check):
New Well, Deepening, Reconditioning, Plugging

4) PROPOSED USE (Check):
Domestic, Industrial, Municipal, Irrigation, Test Well, Other

5) TYPE OF WELL (Check):
Rotary, Driven, Dug, Cable, Jetted, Bored

6) WELL LOG:
Diameter of hole 6-1/4 in. Depth drilled 320 ft. Depth of completed well 280 ft. Date drilled 10-29-68

All measurements made from 0 ft. above ground level. Well back filled 320' to 280'

From (ft.)	To (ft.)	Description and color of formation material
		See Electric Log attached

(Use reverse side if necessary)

9) Casing:
Type: Old, New, Steel, Plastic, Other
Cemented from 294 ft. to 0 ft.

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Gage
4½" o.d.	294	0	9½#

10) SCREEN:
Type
Perforated, Slotted

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Slot Size
7 shots	242	248	
7 shots	270	276	

7) COMPLETION (Check):
Straight wall, Gravel packed, Other, Under reamed, Open Hole

8) WATER LEVEL:
Static level 92 ft. below land surface Date 10-29-68
Artesian pressure _____ lbs. per square inch Date _____
Depth to pump bowls, cylinder, jet, etc., 189 ft. below land surface.

11) WELL TESTS:
Was a pump test made? Yes No If yes, by whom? J.W. Pierce
Yield: 8 gpm with _____ ft. drawdown after 1 hrs.
Bailer test _____ gpm with _____ ft. drawdown after _____ hrs.
Artesian flow _____ gpm
Temperature of water _____

12) WATER QUALITY:
Was a chemical analysis made? Yes No
Did any strata contain undesirable water? Yes No
Type of water? Woodbine depth of strata 134'

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME John Wentworth Pierce (Type or Print) Water Well Drillers Registration No. 401

ADDRESS 10715 Lines Boulevard (Street or RFD) Dallas (City) Texas (State)

(Signed) [signature] (Water Well Driller) Pierce Pump Company (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

TWDBE-GW-53

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-17-205

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3317205
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.749722
Latitude (degrees minutes seconds)	32° 44' 59" N
Longitude (decimal degrees)	-96.922778
Longitude (degrees minutes seconds)	096° 55' 22" W
Coordinate Source	+/- 10 Seconds
Aquifer Code	212WDBN - Woodbine Sand
Aquifer	Woodbine
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	432
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	534
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Domestic
Water Level Observation	None
Water Quality Available	Yes
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 9/16/1976 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Woodbine Sand

Analyzed Lab: Texas Department of Health **Reliability:** From well not sufficiently pumped; not filtered or preserved

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		9	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		438	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		512.55	mg/L	
00910	CALCIUM (MG/L)		2.2	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		10.8	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		72	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.6	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		9	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)	<	100	ug/L	
00920	MAGNESIUM (MG/L)		1	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		4.3	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.5	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.57		
00955	SILICA, DISSOLVED (MG/L AS SI02)		11	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		64.15		
00932	SODIUM, CALCULATED, PERCENT		99	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		445	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		2106	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		405	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1204	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

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Dup
23

Send original copy by certified mail to the Texas Water Development Board P. O. Box 12386 Austin, Texas 78711

State of Texas

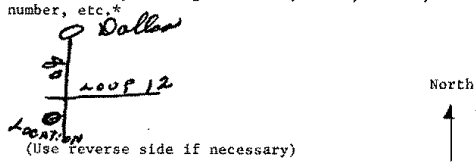
WATER WELL REPORT

For TWDB use only
Well No. 33-17-2B
Located on map 1/4 S
Received: 70
db

1) OWNER:
Person having well drilled Ben Parks (Name) Address P.O. Box 34410 (Street or RFD) Dallas (City), Texas (State)
Landowner Ben Parks (Name) Address P.O. Box 34410 (Street or RFD) Dallas (City), Texas (State)

2) LOCATION OF WELL:
County Dallas, 1/4 miles in W (N.E., S.W., etc.) direction from Loop 12 on Jefferson St. (Town)

Locate by sketch map showing landmarks, roads, creeks, hiway number, etc.*



(Use reverse side if necessary)

or Give legal location with distances and directions from adjacent sections or survey lines.
Labor _____ League _____
Block _____ Survey _____
Abstract No. _____
(NW¼ NE¼ SW¼ SE¼) of Section _____

3) TYPE OF WORK (Check): New Well ✓ Deepening Reconditioning Plugging

4) PROPOSED USE (Check): Domestic ✓ Industrial Municipal Irrigation Test Well Other

5) TYPE OF WELL (Check): Rotary ✓ Driven Dug Cable Jetted Bored

6) WELL LOG:
Diameter of hole 6 1/4 in. Depth drilled 464 ft. Depth of completed well 464 ft. Date drilled 3-30-70
All measurements made from 3 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0	60	yellow Shale
60	100	Blue Shale
100	175	Grey Shale & lime Shale
175	224	Brown Shale & lime Shale
224	226	Blue Shale
226	228	lime
228	245	Broken Sand & Shale
245	256	Sand
256	259	lime
259	273	Shale & lime Strips
273	283	Sand
283	444	Brown Shale & lime Shale
444	455	Sand

(Use reverse side if necessary)

9) Casing:
Type: Old New ✓ Steel ✓ Plastic Other
Cemented from 0 ft. to 464 ft.

Diameter (inches)	Setting From (ft.)	To (ft.)	Gage
4 1/2	0	464	7.5 lb

10) SCREEN:
Type _____
Perforated ✓ Slotted

Diameter (inches)	Setting From (ft.)	To (ft.)	Slot Size

7) COMPLETION (Check):
Straight wall Gravel packed Other ✓ Cemented & Perforated
Under reamed Open Hole

8) WATER LEVEL:
Static level 320 ft. below land surface Date 3-30-70
Artesian pressure _____ lbs. per square inch Date _____
Depth to pump bowls, cylinder, jet, etc., 400 ft. below land surface.

11) WELL TESTS:
Was a pump test made? Yes ✓ No If yes, by whom? Operator
Yield: 20 gpm with 40 ft. drawdown after 1 hrs.
Bailer test 20 gpm with 40 ft. drawdown after 1 hrs.
Artesian flow _____ gpm
Temperature of water _____

12) WATER QUALITY:
Was a chemical analysis made? Yes No ✓
Did any strata contain undesirable water? Yes No ✓
Type of water? _____ depth of strata _____

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME Gene M. Grumbles (Type or Print) Water Well Drillers Registration No. 1275
ADDRESS P.O. Box 151 (Street or RFD) Mansfield (City) Texas 76063 (State)
(Signed) Gene Grumbles (Water Well Driller) Swain & Son Well Service & Drilling (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

TWDBE-GW-53

File original with Texas Water Development Board P. O. Box 12386 Austin, Texas 78711	State of Texas WATER WELL COMPLETION AND PLUGGING REPORT	For TWDB use only Well No. ____ Form GW 7 received ____ Form GW 8 received ____

1) Well Owner: Ben Parks. Po. Box 34410 Dallas Tex.
Name — Street or RFD — City — State

2) Landowner: " " " "
Name — Street or RFD — City — State

3) Intended Use: Industrial ☐; Municipal ☐; Irrigation ☐; Domestic ☑; Stock ☐; Other ____

4) Location Of Well: County Dallas Labor ____ League ____ Abstract No. ____

NW¼ NE¼ SW¼ SE¼ of Section ____ Block No. ____ Survey ____
(Circle as many as known)

¼ miles in W (NE, SW, etc.) direction from Loop 12. on Jefferson St (Town). Use reverse side to sketch map of well location showing distances from adjacent section or survey lines, or to landmarks, roads, and creeks.

COMPLETION AND PLUGGING DATA

5) Driller C.B. Geyer. Registration Number 852 Address Mansfield

6) Party Completing Or Plugging Well C.B. Geyer. Registration Number 852 Address "

7) Drilled 3-30 1970, Dug ☐; Cable Tool ☐; Rotary ☑; Other ____ Owners Well Number 1

8) Diameter Of Hole 6¼ inches, from 0 to 464 feet, and ____ inches, from ____ to ____ feet; Total depth ____ feet.

9) Casing and Cement:

Diameter (inches)	Set in Well From (feet)	Set in Well To (feet)	Left in Well From (feet)	Left in Well To (feet)	Cement Baskets or Packers, Depth (feet)	Cement From (feet)	Cement To (feet)
4½	0	470				0	470

10) Well Log: All measurments made from 3 feet above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0	60	Yellow Clay
60	100	Blue Shale
100	175	Gray Shale Lime
175	224	Brn Shale Lime
224	226	Blue Shale
226	228	Lime
228	245	Brn Sand Shale
245	256	Sand
256	259	Lime
259	273	Shaly Lime Strs
273	283	Sand
283	444	Light Brn Shale
444	455	Sand
455	465	Shale

11) Sketch Of Well: Show method of completion and/or plugging including all casing and cemented intervals.

12) Fresh Water-Bearing Zone(s): Depth in feet to top of 444-455, Thickness 11 feet.

13) Undesirable Water-Bearing Zone(s): Depth in feet to top of ____, Thickness ____ feet.

14) Static Water Level(s) 320 feet below land surface. Was the water level measured after penetrating the first water-bearing zone ☐, or after drilling to total depth ☑? Check applicable box(s).

15) Describe in detail the type, volume and manner of placement of all cement. Indicate depth to top of cement behind each casing string. Describe and give percent of all cement additives: Which was cemented from Bottom of Casing to Top of Surface.

16) Was undesirable water exclusion or retention or plugging program checked for adequacy? ____
If so describe method(s) used. ____

17) Attach electrical, gamma ray or other mechanical log(s), water analyses, and other pertinent data if available.

VALIDATION

18) We, the party performing the undesirable water exclusion ☐ retention ☐ plugging ☐ (Check applicable box) operations, ____, and the landowner or party having well drilled, deepened or otherwise altered, ____, certify that the undesirable water exclusion or retention or plugging operations were performed in the manner described above.

23

File original copy with
Texas Water Commission
P. O. Box 2311, Capitol Station
Austin 11, Texas

State of Texas

DRILLERS LOG AND WELL DATA REPORT

For use by TWC only
Well No. 33-17-
Located on map
By Date
Map no.

1) Well Owner: Hill Pet Shop (Name) Hinny US 80 (Street or RFD) Dallas (City) Texas (State)

2) Land Owner: C-O. Eckland (Name) (Street or RFD) (City) (State)

3) Intended use: Industrial ☐ ; Municipal ☐ ; Irrigation ☐ ; Other

4) Location of well: County Dallas Labor League Abstract No.

NW¼ NE¼ SW¼ SE¼ of Section Block No. Survey
(Circle as many as are known)

5 miles in E (NE, NW, etc.) direction
from Grand Prairie, Tex. (Town)

North

Sketch map of well location with distances from two section or survey lines, and to landmarks, roads, and creeks.

DRILLERS LOG OF WELL

Method of drilling: Rotary Diameter of hole 6¼ in. Date drilled March 1969

All measurements made from ft. above ground level.

From (ft)	To (ft)	Description and color of formation material	From (ft)	To (ft)	Description and color of formation material
0	21'	yellow Clay	498	502	Hard lime rock
21'	60'	Blotky chalk	502	534	Sand
60	235	Blue Marl shale			
235	252	Sandy shale			
252	312	Broken shale + sand streaks			
312	350	Gray shale			
350	381	Sandy shale			
381	498	Hd Limy shale			

(Use continuation sheets if necessary)

COMPLETION DATA

COMPLETION

Straight wall ☐
Under reamed ☐
Gravel packed ☐
Open hole ☐
Other Gun Perforated

CASING

Type: Old ☐ New ☑
Cemented from 0 ft.
to 534 ft.

Diameter (inches)	Setting from (ft)	Setting to (ft)
4½ OD	0	534

SCREEN

Type
Perforated ☐ Slotted ☐

Diameter (inches)	Setting from (ft)	Setting to (ft)

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

H. B. Hopkemeier (Signature) Hopkemeier Drlng Co (Company Name) Reg. No. 112

Please attach electric log, chemical analysis, and other pertinent information if available.

If well was tested by your company or if you installed the permanent pump please complete the following:

WATER LEVEL AND PUMP DATA

Static water level
ft. below

Pumping level

feet	hours	gpm

Pump type
Designed pumping rate gpm ☐ gph ☐
Type power unit
Horsepower
Depth to bowls, cylinder, jet, etc., ft. below pump base.

Name of contractor testing well or installing permanent pump if other than your company: Q-53

C-34 (62-4)

57

Attention Owner:
Confidentiality Privilege Notice on reverse side of owner's copy.

Texas Department of License and Regulation

Water Well Driller/Pump Installer Program
P.O. Box 12157 Austin, Texas 78711 (512)463-7880 FAX (512)463-8616
Toll free (800)803-9202
Email address: water.well@license.state.tx.us

This form must be completed and filed with the department and owner within 60 days upon completion of the well.

WELL REPORT

A. WELL IDENTIFICATION AND LOCATION

1) OWNER

Name	Address	City	State	Zip
MICHAEL MIESCH	415 WILDWOOD RD	IRVING	TX	75060

2) WELL LOCATION

County	Physical Address	City	State	Zip
DALLAS	SAME AS ABOVE			

Lat. _____ Long. _____ Grid # 33 09 06

3) Type of Work
☒ New Well ☐ Reconditioning
☐ Replacement ☐ Deepening

4) Proposed Use (check) ☐ Monitor ☐ Environmental Soil Boring ☐ Domestic
☐ Industrial ☒ Irrigation ☐ Injection ☐ Public Supply ☐ De-watering ☐ Testwell
☐ Rig Supply If Public Supply well, were plans submitted? ☐ Yes ☐ No

5) N↑

6) Drilling Date
Started 07 / 30 / 02
Completed 08 / 08 / 02

Diameter of Hole

Dia.(in)	From (ft)	To (ft)
7 7/8	0	365

7) Drilling Method (check) ☐ Driven
☐ Air Rotary ☒ Mud Rotary ☐ Bored
☐ Air Hammer ☐ Cable Tool ☐ Jetted
☐ Other _____

From (ft)	To (ft)	Description and color of formation material
0	45	SANDY LOAM
45	260	SHALE
260	320	BROKEN SAND
320	365	SAND
365	366	SHALE

(Use reverse side of Well Owner's copy, If necessary)

8) Borehole Completion ☐ Open Hole ☐ Straight Wall
☐ Under-reamed ☒ Gravel Packed ☐ Other _____
If Gravel Packed give the interval from 300 ft. to 365 ft.

Casing, Blank Pipe, and Well Screen Data

Dia. (in.)	New Or Used	Steel, Plastic, etc. Perf., Slotted, etc Screen Mfg., if commercial	Setting (ft) From	Setting (ft) To	Gage Casing Screen
4	N	PVC CASING	0	326	#40
4	N	PVC SCREEN	326	365	.020

9) Cementing Data
Cementing from 0 ft. to 20 ft. # of sacks used 7
280 ft. to 300 ft. # of sacks used 6
Method Used _____
Cementing By PRESSURE DRILLER
Distance to septic system field or other concentrated contamination N/A ft.
Method of verification of above distance N/A

13) Plugged ☐ Well plugged within 48 hours
Casing left in well: Cement/Bentonite placed in well:

From (ft)	To (ft)	From (ft)	To (ft)	Sacks used

10) Surface Completion
☐ Specified Surface Slab Installed
☒ Specified Surface Sleeve Installed
☐ Pitless Adapter Used
☐ Approved Alternative Procedure Used

RECEIVED
TDLR MAIL ROOM
SEP 05 2002
RECEIPT # AMOUNT

14) Type Pump
☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet etc., 260 ft.

11) Water Level
Static level 180 ft. below Date 08 / 09 / 02
Artesian Flow _____ gpm. Date / /

15) Water Test
Typetest ☒ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: 20 gpm with 50 ft. drawdown after 72 hrs.

16) Water Quality
Did you knowingly penetrate a strata which contain undesirable constituents.
☐ YES ☒ NO If yes, did you submit a REPORT OF UNDESIRABLE WATER
Type of water _____ Depth of Strata _____
Was a chemical analysis made ☐ Yes ☐ No

12) Packers Type Depth

Company or individual's Name (type or print)	SEA LITE DRILLING CO	Lic. No. 1820
Address 10634 CR#58	City CELINA	State TX Zip 75009

Signature R E Nels — Licensed Driller/Pump Installer
Date 08 / 30 / 02
Signature — Apprentice
Date / /

TDLR FORM b001WWD *White - TDLR* *Yellow - Owner* *Pink - Driller/Pump Installer*

STATE OF TEXAS WELL REPORT for Tracking #255992

Owner:	**Dallas National Golf Club**	Owner Well #:	**1**
Address:	**1515 Knoxville Dallas, TX 75211**	Grid #:	**33-17-3**
Well Location:	**429 South Morocco Avenue Dallas, TX 75211**	Latitude:	**32° 44' 31" N**
		Longitude:	**096° 54' 32" W**
Well County:	**Dallas**	Elevation:	**529 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

Drilling Start Date: **8/23/2010** Drilling End Date: **1/18/2011**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**14.75**	**0**	**2440**

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed; Under-reamed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**-2**	**40**	**30 Concrete**
	0	**2255**	**700 plus 6% gel**

Seal Method: **Pump Down Plug**

Sealed By: **Quasar Energy Services**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Water Level: **656 ft.** below land surface on **2011-01-21** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **924**

Well Tests: **Pump** **Yield: 595 GPM with 86 ft. drawdown after 12 hours**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **Yes**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **J L Myers Company**

PO Box 1659
Terrell, TX 75160

Driller Name: **Michael Raulston** License Number: **4790**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	2	Soil
2	348	Shale
348	535	Shale, lime, and sand
535	689	Broken sand with shale
689	910	Shale, sand, clay
910	1171	Clay, limestone
1171	1220	Clay,limestone
1220	1355	Sand, clay, shale
1355	1433	Shale, clay, limestone
1433	1517	Limestone, clay
1517	1551	Limestone, clay
1551	1650	Shale, limestone
1650	1689	Limestone
1689	1741	Lime, limestone
1741	1917	Limestone, shale
1917	1967	Shale
1967	2076	Shale, broken sand
2076	2105	Shale

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
18	N	Steel	0 35
10	N	Steel	+2 2255
6	N	Steel	2116 2263
6	N	SSWW Screen	2263 2357
6	N	Steel	2357 2369
6	N	SSWW	2369 2419
6	N	Steel	2419 2440

2105	**2273**	**Shale, clay**
2273	**2421**	**Sand**
2421	**2440**	**Shale, clay**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

8B

Send original copy by certified mail to the Texas Water Development Board P. O. Box 13087 Austin, Texas 78711

State of Texas

WATER WELL REPORT

For TWDB use only
Well No. 33-09-8B
Located on map yes
Received: 73
dl

1) OWNER:
Person having well drilled Ray K. Neal (Name) Address 302 S. Bolden (Street or RFD) Irving (City) Texas (State)

Landowner Same (Name) Address Same (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Dallas, 3 miles in S (N.E., S.W., etc.) direction from Irving (Town)

Locate by sketch map showing landmarks, roads, creeks, hiway number, etc.*

Shady Grove

S. Bolden

North

(Use reverse side if necessary)

or

Give legal location with distances and directions from adjacent sections or survey lines.

Labor _____ League _____

Block _____ Survey _____

Abstract No. _____

(NW¼ NE¼ SW¼ SE¼) of Section _____

3) TYPE OF WORK (Check):
New Well X Deepening
Reconditioning Plugging

4) PROPOSED USE (Check):
Domestic X Industrial Municipal
Irrigation Test Well Other

5) TYPE OF WELL (Check):
Rotary Driven Dug
Cable Jetted Bored X

6) WELL LOG:
Diameter of hole 36" in. Depth drilled 30' ft. Depth of completed well 30' ft. Date drilled 11/6/72

All measurements made from 0 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
1	4	Black Dirt
4	10	Light Brown Dirt
10	20	Sand, Gravel & Water
20	30	Rock

(Use reverse side if necessary)

9) Casing:
Type: Old New X Steel Plastic Other X
Cemented from _____ ft. to _____ ft.

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Gage
31½"		30'	2½"

10) SCREEN:
Type _____
Perforated Slotted

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Slot Size

7) COMPLETION (Check):
Straight wall X Gravel packed Other
Under reamed Open Hole

8) WATER LEVEL:
Static level _____ ft. below land surface Date _____
Artesian pressure _____ lbs. per square inch Date _____
Depth to pump bowls, cylinder, jet, etc., _____ ft. below land surface.

11) WELL TESTS:
Was a pump test made? Yes No X If yes, by whom?
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.
Bailer test _____ gpm with _____ ft. drawdown after _____ hrs.
Artesian flow _____ gpm
Temperature of water _____

12) WATER QUALITY:
Was a chemical analysis made? Yes No X
Did any strata contain undesirable water? Yes No.
Type of water? _____ depth of strata _____

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME Liberty Drilling Company (Type or Print) Water Well Drillers Registration No. 1142

ADDRESS P.O. Box 648 (Street or RFD) Mesquite, (City) Texas (State) 75149

(Signed) [signature] (Water Well Driller) Liberty Drilling Company (Company Name)

C. Singleton

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

TWDBE-WD-8

STATE OF TEXAS WELL REPORT for Tracking #526253

Owner:	**City Of Irving Landfill**	Owner Well #:	**UV-3**
Address:	**110 E. Hunter Ferrell Road Irving, TX 75060**	Grid #:	**33-09-8**
Well Location:	**110 Hunter Ferrell Road Irving, TX 75060**	Latitude:	**32° 47' 11.58" N**
		Longitude:	**096° 56' 32.52" W**
Well County:	**Dallas**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Utility Trench Vent**

Drilling Start Date: **10/31/2019** Drilling End Date: **10/31/2019**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8.5**	**0**	**8**

Drilling Method: **Hydro-vac**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**0.5**	**1**	**Sand**	**10/20**
	1	**8**	**Gravel**	**0.375**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**0.5**	**Bentonite 1 Bags/Sacks**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **C&S Lease**

1873 FM 1252 E
Kilgore, TX 75663

Driller Name: **Buford E. Collier** License Number: **50089**

Apprentice Name: **David Diduch** Apprentice Number: **60297**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**8**	**Silty, Fat Clay with Gravel, Moist**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	**Riser**	**New Plastic (PVC)**	**40**	**0**	**1**
2	**Screen**	**New Plastic (PVC)**	**40 0.020**	**1**	**8**

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Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #526255

Owner:	**City Of Irving Landfill**	Owner Well #:	**UV-4**
Address:	**110 E. Hunter Ferrell Road Irving, TX 75060**	Grid #:	**33-09-8**
Well Location:	**110 Hunter Ferrell Road Irving, TX 75060**	Latitude:	**32° 47' 11.28" N**
		Longitude:	**096° 56' 30.78" W**
Well County:	**Dallas**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Utility Trench Vent**

Drilling Start Date: **10/31/2019** Drilling End Date: **10/31/2019**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8.5**	**0**	**5.3**

Drilling Method: **Hydro-vac**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**0.5**	**1**	**Sand**	**10/20**
	1	**5.3**	**Gravel**	**0.375**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**0.5**	**Bentonite 1 Bags/Sacks**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **C&S Lease**

1873 FM 1252 E
Kilgore, TX 75663

Driller Name: **Buford E. Collier** License Number: **50089**

Apprentice Name: **David Diduch** Apprentice Number: **60297**

Comments: **No Data**

Report Amended on 11/12/2019 by Request #29256

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**5.3**	**Silty, Fat Clay with Gravel, Moist**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	**Riser**	**New Plastic (PVC)**	**40**	**0**	**1**
2	**Screen**	**New Plastic (PVC)**	**40 0.020**	**1**	**5.3**

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Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-18-101

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3318101
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.748889
Latitude (degrees minutes seconds)	32° 44' 56" N
Longitude (decimal degrees)	-96.868333
Longitude (degrees minutes seconds)	096° 52' 06" W
Coordinate Source	+/- 1 Second
Aquifer Code	218TWMT - Twin Mountains Formation
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	560
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	2652
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	No
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	City of Dallas
Driller	R.H. Dearing & Sons
Other Data Available	Drillers Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	10/19/1976
Last Update Date	3/4/2020

Remarks	Abandoned in 1931.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
12	Blank	Steel			0	587
8	Blank	Steel			587	2297

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-802

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3309802
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.783055
Latitude (degrees minutes seconds)	32° 46' 59" N
Longitude (decimal degrees)	-96.943056
Longitude (degrees minutes seconds)	096° 56' 35" W
Coordinate Source	+/- 1 Second
Aquifer Code	218PLXY - Paluxy Sand
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	427
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	1180
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1976
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Industrial
Water Level Observation	None
Water Quality Available	Yes
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Gifford Hill and Co
Driller	J.L. Myers Co
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 9/27/1976 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Paluxy Sand

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		7	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		404	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		475.93	mg/L	
00910	CALCIUM (MG/L)		2.2	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		8.4	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		19	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.1	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		8	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		0.85	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.6	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.9		
00955	SILICA, DISSOLVED (MG/L AS SI02)		14	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		38.92		
00932	SODIUM, CALCULATED, PERCENT		98	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		270	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1269	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		167	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		29	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		716	mg/L	

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-802

Water Quality Analysis

Sample Date: 4/27/1983 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Paluxy Sand

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		11	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		404	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		466.17	mg/L	
00910	CALCIUM (MG/L)		1.6	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		13.2	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		19	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.1	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		6	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		0.5	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.04	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.6	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.96		
00955	SILICA, DISSOLVED (MG/L AS SI02)		13	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		47.38		
00932	SODIUM, CALCULATED, PERCENT		99	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		280	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1280	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		180	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		27	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		737	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.

STATE OF TEXAS WELL REPORT for Tracking #569643

Owner:	**Yello Belly Drag Trip**	Owner Well #:	**No Data**
Address:	**4702 E. Main Grapevine, TX 75050**	Grid #:	**33-09-8**
Well Location:	**4702 E. Main Grapevine, TX 75050**	Latitude:	**32° 45' 02.7" N**
		Longitude:	**096° 55' 55.1" W**
Well County:	**Dallas**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

Drilling Start Date: **1/21/2021** Drilling End Date: **1/28/2021**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**9.875**	**0**	**500**

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**240**	**500**	**Gravel**	**12/20**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**20**	**Cement 10 Bags/Sacks**
	20	**240**	**Bentonite 11 Bags/Sacks**

Seal Method: **Poured**

Sealed By: **Driller**

Distance to Property Line (ft.): **Over 50**

Distance to Septic Field or other concentrated contamination (ft.): **Over 50**

Distance to Septic Tank (ft.): **Over 50**

Method of Verification: **No Data**

Surface Completion: **Surface Sleeve Installed** **Surface Completion by Driller**

Water Level: **No Data** on **2021-01-28**

Packers: **No Data**

Type of Pump: **Submersible**

Well Tests: **Pump** **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Barco Well Service, LP**

PO Box 2406
Keller, TX 76424

Driller Name: **Jason M Flynt** License Number: **59359**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	20	Rock/Sand Clay
20	40	lay/Gray Shale/Pea Gravel
40	60	Gray Shale/ Pea Gravel
60	140	Gray Shale
140	240	Black Shale
240	400	Sand/Shale
400	460	Sand/Blue Shale/Shale
460	480	Sand/Shale
480	500	Shale/Purple Shale

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR 17	0	340
4.5	Screen	New Plastic (PVC)	SDR 17 0.020	34	360
4.5	Blank	New Plastic (PVC)	SDR 17	360	380
4.5	Screen	New Plastic (PVC)	SDR 17 0.020	380	400
4.5	Blank	New Plastic (PVC)	SDR 17	400	420
4.5	Screen	New Plastic (PVC)	SDR 17 0.020	420	440
4.5	Blank	New Plastic (PVC)	SDR 17	440	460
4.5	Screen	New Plastic (PVC)	SDR 17 0.020	460	480
4.5	Blank	New Plastic (PVC)	SDR 17	480	500

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

2C

Send original copy by certified mail to the
Texas Department of Water Resources
P. O. Box 13087
Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

For TDWR use only
Well No. 33-19-2C
Located on map yes
Received: C.F.S.

1) OWNER Cecil Ferris (Name) Address 4402 E. Jefferson (Street or RFD) Grand Prairie (City) Tx (State) (Zip)

2) LOCATION OF WELL:
County Dallas 2 miles in E (N.E., S.W., etc.) direction from Grand Prairie (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

☒ See attached map.

3) TYPE OF WORK (Check):
☒ New Well ☐ Deepening
☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):
☒ Domestic ☐ Industrial ☐ Public Supply
☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check):
☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored
☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:
Date drilled 9-17-80

DIAMETER OF HOLE Dia. (in.)	From (ft.)	To (ft.)
8 3/4	Surface	60

From (ft.)	To (ft.)	Description and color of formation material
0	50	Clay
50	55	Sand
55	60	Blue Clay

(Use reverse side if necessary)

7) BOREHOLE COMPLETION:
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☒ Gravel Packed ☐ Other _____
If Gravel Packed give interval from 40 ft. to 60 ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgf., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
6	N	Plastic	0	40	222
6	N	Slotted	40	60	1/16

CEMENTING DATA
Cemented from _____ ft. to _____ ft.
Method used Drilling Mud
Cemented by _____ (Company or Individual)

9) WATER LEVEL:
Static level _____ ft. below land surface Date _____
Artesian flow _____ gpm. Date _____

10) PACKERS: Type Depth

11) TYPE PUMP:
☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., _____ ft.

12) WELL TESTS:
☐ Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.

13) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☒ No

RECEIVED
MAR 10 1982
C.R./TDWR

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME C.K. Curtiss (Type or Print) Water Well Drillers Registration No. 1875

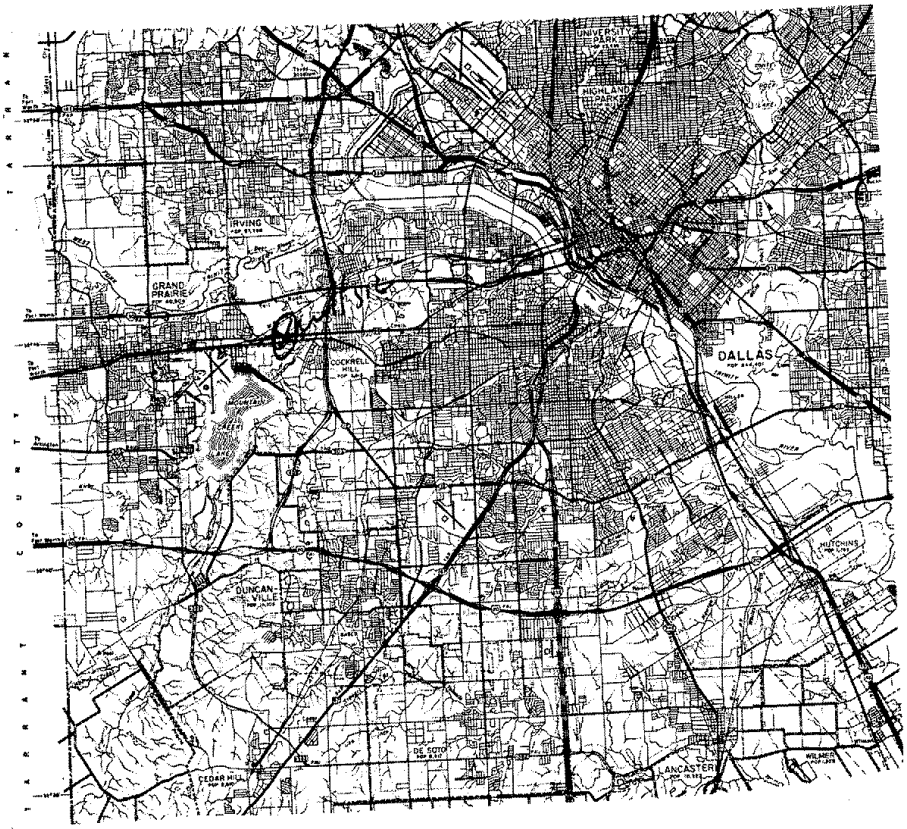
ADDRESS 520 North Haskell (Street or RFD) Dallas (City) Texas (State) 75246 (Zip)

(Signed) [signature] (Water Well Driller) Kentry Waterwells (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

TDWR-0392 (Rev. 1-12-79)

DEPARTMENT OF WATER RESOURCES COPY



RECEIVED
OCT 28 1980
TEXAS DEPT.
OF
WATER RESOURCES

03/05/2024
05:03:30

Texas Commission on Environmental Quality
DWW Water System Summary Sheet

PWS ID	PWS Name	Central Registry RN
TX0570180	TEXAS SPORTS COMPLEX	RN106767726

Organization/Customer *	Central Registry CN
TEXAS SPORTS COMPLEX LLC	CN605305242

*Regulatory mail will be addressed to this organization/person

All Water System Contacts

Type	Contact	Communication	
AC - Administrative Contact	NAGIM, IBRAHIM 3703 INDIAN SPRINGS TRL ARLINGTON, TX 76016-3131	**Electronic Type**	**Value**
		Phone Type	**Value**
		MOB - Mobile	817-308-7016
OW - Owner	TEXAS SPORTS COMPLEX LLC 3703 INDIAN SPRINGS TRL ARLINGTON, TX 76016-3131		

Operator Grade	Number

Water Operator Licenses

No Licensing Data for this PWS

Owner Type	Owner Type Options: COUNTY, DISTRICT, FEDERAL GOVERNMENT, INVESTOR OWNED, MUNICIPALITY, NATIVE AMERICAN, PRIVATE, STATE GOVERNMENT, WATER SUPPLY CORPORATION
Private	

System Type	System Type Options: COMMUNITY, TRANSIENT/NON-COMMUNITY, NON-PUBLIC, NON-TRANSIENT/NON-COMMUNITY
NP - NON-PUBLIC	

Population Type	Population Served	# of Connect	# I/C w/other PWS
NonResidential	24	2	0

Total Product (MGD)	Average Daily Consump.	Max Daily Demand (MGD)	Total Storage (MG)	Elev. Storage (MG)	Service Pump Cap.	Max.Purchase Cap. (MGD/GPM)	Pressure Tank Cap.(MG)

			.001 MG				###### GAL

Activity Status	Inactivation Date
I - INACTIVE	12/31/2017

Last Survey Date	Surveyor	Survey Type	Region	County
No Site Visit Data				

(Treatment Plant)							
Entry Point	EP Name/Source Summation (Activity Status)	Plant Name (Activity Status)	Plant Num	Chemical Mon Type	Chem Sample Point	Distribution Mon Type	Dist Sample Point
EP001	TRT-TAP / No Source Listed(I)	PLANT - 4906 E MAIN(I)	TP410580		NO		NO

Train:	Unnamed			
(Treatments)				
Disinfection Zone	Treatment Sequence	Objective	Process	Treatment
null	null	D	423	HYPOCHLORINATION, PRE

(Active Sources)

(Inactive/Offline Sources)			
SourceNumber	Name	Status	Depth
G0570180A	1 - 4906 E MAIN	O	N/A

Code Explanations
Monitoring Type Codes: (GW) GROUNDWATER , (GUP) GROUNDWATER UNDER THE INFLUENCE - PURCHASED , (SWP) SURFACE WATER - PURCHASED , (GU) GROUNDWATER UNDER THE INFLUENCE OF SURFACE WATER , (N) NO SOURCES , (SW) SURFACE WATER
Activity Status Codes: (A) ACTIVE , (D) DELETED/DISSOLVED , (I) INACTIVE , (P) PROPOSED ,
Operational Status Codes: (E) EMERGENCY , (I) INTERIM/PEAK (O) OTHER , (P) PERMANENT , (S) SEASONAL
Source Types: (G) GROUND WATER , (S) SURFACE WATER , (U) GROUND WATER UNDER THE INFLUENCE

- End of Report -

At the time of your query this data was the most current information available from our database, which is in real time. Every effort was made to retrieve it according to your query. Thank-you for using DWW.

1 mi N/SL
12 mi W/EL

Please use black ink.
Send original copy by certified mail to the
Texas Department of Water Resources
P. O. Box 13087
Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

Texas Water Well Drillers Board
P. O. Box 13087
Austin, Texas 78711

1) OWNER Marie Mims (Name) Address 4906 East Grand Praire (Street or RFD) Tex (City) 75050 (State) (Zip)

2) LOCATION OF WELL:
County Dallas _____ miles in _____ (N.E., S.W., etc.) direction from _____ (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☑ See attached map.

3) TYPE OF WORK (Check): ☑ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check): ☑ Domestic ☐ Industrial ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check): ☑ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored ☑ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:

Date drilled May 1986

DIAMETER OF HOLE Dia. (in.)	From (ft.)	To (ft.)
12"	Surface	60
6 1/4	60	515

From (ft.)	To (ft.)	Description and color of formation material
0	3	Black topsoil/clay
3	20	Yellow clay
20	43	Blue shale
43	49	Sand + gravel
49	250	Blue shale
250	270	Blue shale + sand streaks
270	320	Blue shale w/lime streaks
320	380	Blue shale + sand streaks
380	480	Blue shale w/lime + sand streak
480	505	coarse sand
505	515	Blue shale

(Use reverse side if necessary)

7) BOREHOLE COMPLETION:
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☑ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from 70 ft. to 515 ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgf., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
8 5/8		Steel/Surface	+9"	60'	
4 1/2"		Sch 40 Pvc	+2	515	
		Perf	255	515	1/16

9) CEMENTING DATA [Rule 319.44(b)]
Cemented from 70 ft. to +1 ft.
_____ ft. to _____ ft.
Method used _____
Cemented by _____

10) SURFACE COMPLETION
☐ Specified Surface Slab Installed [Rule 319.44(c)]
☐ Pitless Adapter Used [Rule 319.44(d)]
☑ Approved Alternative Procedure Used [Rule 319.71]

11) WATER LEVEL:
Static level 270 ft. below land surface Date May 1986
Artesian flow _____ gpm. Date _____

12) PACKERS: Type Depth
None

13) TYPE PUMP:
☐ Turbine ☐ Jet ☑ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 440' ft.

14) WELL TESTS:
Type Test: ☑ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: 10 gpm with N.A ft. drawdown after 2 hrs.

15) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☑ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☑ No

RECEIVED
JUN 10 86
Texas Water Commission

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 12 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME Tom Evans Drilling (Type or Print) Water Well Driller's License No. 2483

ADDRESS P.O. Box 401 (Street or RFD) Rhome (City) Tex (State) 76078 (Zip)

(Signed) Tom C. Evans (Licensed Water Well Driller) (Signed) _____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TDWR use only
Well No. 33-09-8
Located on map _____

DEPARTMENT OF WATER RESOURCES COPY

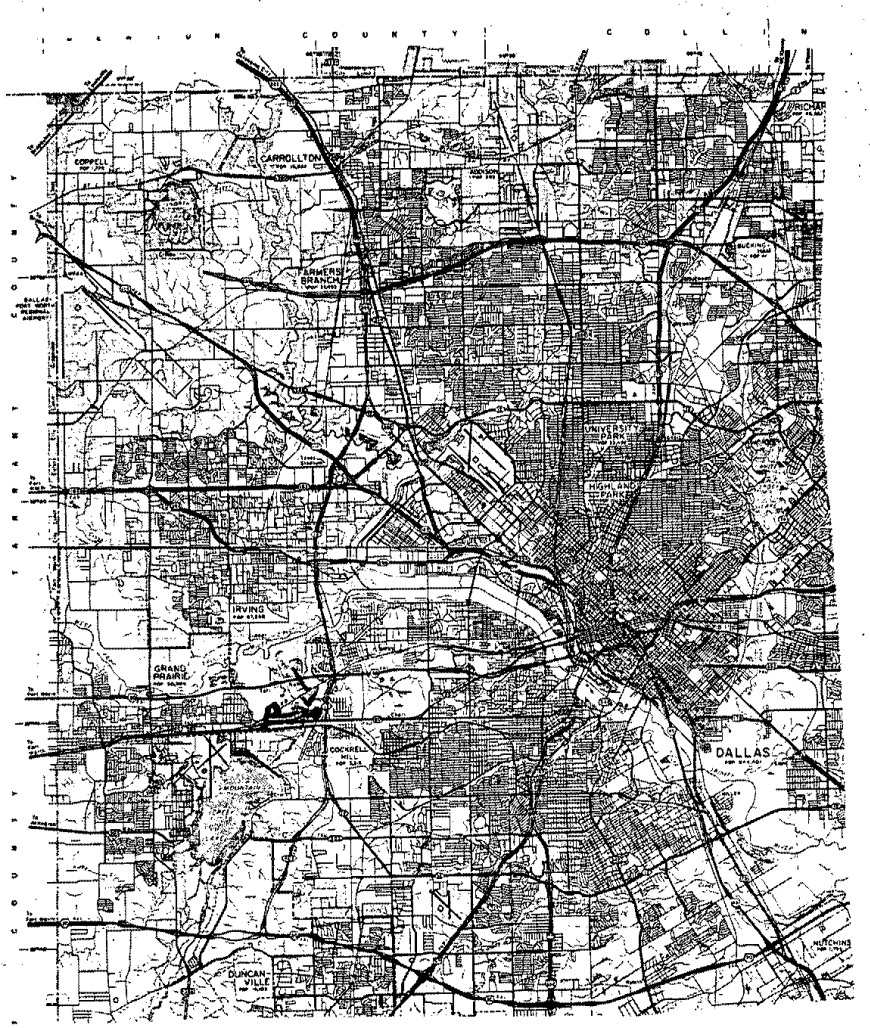
TDWR-0392 (12/29/83)

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING PRIVILEGE OF CONFIDENTIALITY

The Water Well Drillers Board and the Department of Water Resources are concerned that some persons having water wells drilled may not be aware of the confidentiality privilege provision of Section 5 of the Water Well Drillers Act. Section 5, the Reporting of Well Logs, reads as follows:

> "Every licensed water well driller drilling, deepening or otherwise altering a water well within this State shall make and keep, or cause to be made and kept, a legible and accurate well log, and within 30 days from the completion or cessation of drilling, deepening or otherwise altering such a water well, shall deliver or transmit by certified mail a copy of such well log to the department, and the owner thereof or the person having had such well drilled. Each copy of a well log, other than a department copy, shall include the name, mailing address, and telephone number of the Board and the department. The well log required herein shall at the request in writing to the department, by certified mail, by the owner or the person having such well drilled be held as confidential matter and not made of public record."

The last sentence specifies the means whereby you can, if you wish, assure that logs of your wells will be kept confidential.



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12mi W/EL

Please use black ink.
Send original copy by certified mail to the
Texas Department of Water Resources
P. O. Box 13087
Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

Texas Water Well Drillers Board
P. O. Box 13087
Austin, Texas 78711

1) OWNER Marie Mims (Name) Address 4906 East Grand Prairie (Street or RFD) (City) Tx. (State) 75050 (Zip)

2) LOCATION OF WELL: County Dallas _____ miles in _____ (N.E., S.W., etc.) direction from _____ (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☑ See attached map.

3) TYPE OF WORK (Check): ☑ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check): ☑ Domestic ☐ Industrial ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check): ☑ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored ☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:

Date drilled 4/86

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
11 1/2	Surface	45
6 1/2	0	500

From (ft.)	To (ft.)	Description and color of formation material
0	20	Yellow & black clay
20	43	Blue Shale
43	48	Gravel
48	60	Blue Shale & lime str.
60	90	Blue Shale
90	120	Shale & lime str.
120	150	Blue Shale
150	190	Shale & lime
190	220	Shale & lime str.
220	250	Sandy Shale
250	290	Blue Shale
290	320	Shale & lime str
320	350	lime
350	380	Sandy Shale
380	400	Coarse Sand
400	430	Blue Shale
430	460	Shale & lime str.
460	480	Sandy Shale
480	500	Sand & Shale str.
500	506	Shale & lime str.

(Use reverse side if necessary)

7) BOREHOLE COMPLETION: ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☑ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from 500 ft. to 200 ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgf., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
4 1/2		Sch 40	+2	300	
		perf.	300	500	1/16

9) CEMENTING DATA [Rule 319.44(b)]
Cemented from 200 ft. to +1 ft.
_____ ft. to _____ ft.
Method used _____
Cemented by _____

10) SURFACE COMPLETION
☐ Specified Surface Slab Installed [Rule 319.44(c)]
☐ Pitless Adapter Used [Rule 319.44(d)]
☑ Approved Alternative Procedure Used [Rule 319.71]

11) WATER LEVEL:
Static level 230 ft. below land surface Date _____
Artesian flow _____ gpm. Date _____

12) PACKERS: Type Depth

13) TYPE PUMP:
☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., _____ ft.

14) WELL TESTS:
Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: 10 gpm with 20 ft. drawdown after 1 hrs.

15) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☑ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☑ No

RECEIVED MAY 2 1986 TEXAS WATER COMMISSION

I here by certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 12 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME Miles Drill. Co. (Type or Print) Water Well Driller's License No. 2156

ADDRESS Box 617 (Street or RFD) Rhome (City) Tx. (State) 76028 (Zip)

(Signed) Joe Miles (Licensed Water Well Driller) (Signed) Joe Miles (Registered Driller Trainee)

For TDWR use only
Well No. 33-09-8
Located on map _____

Please attach electric log, chemical analysis, and other pertinent information, if available.

DEPARTMENT OF WATER RESOURCES COPY

TDWR-0392 (12/29/83)

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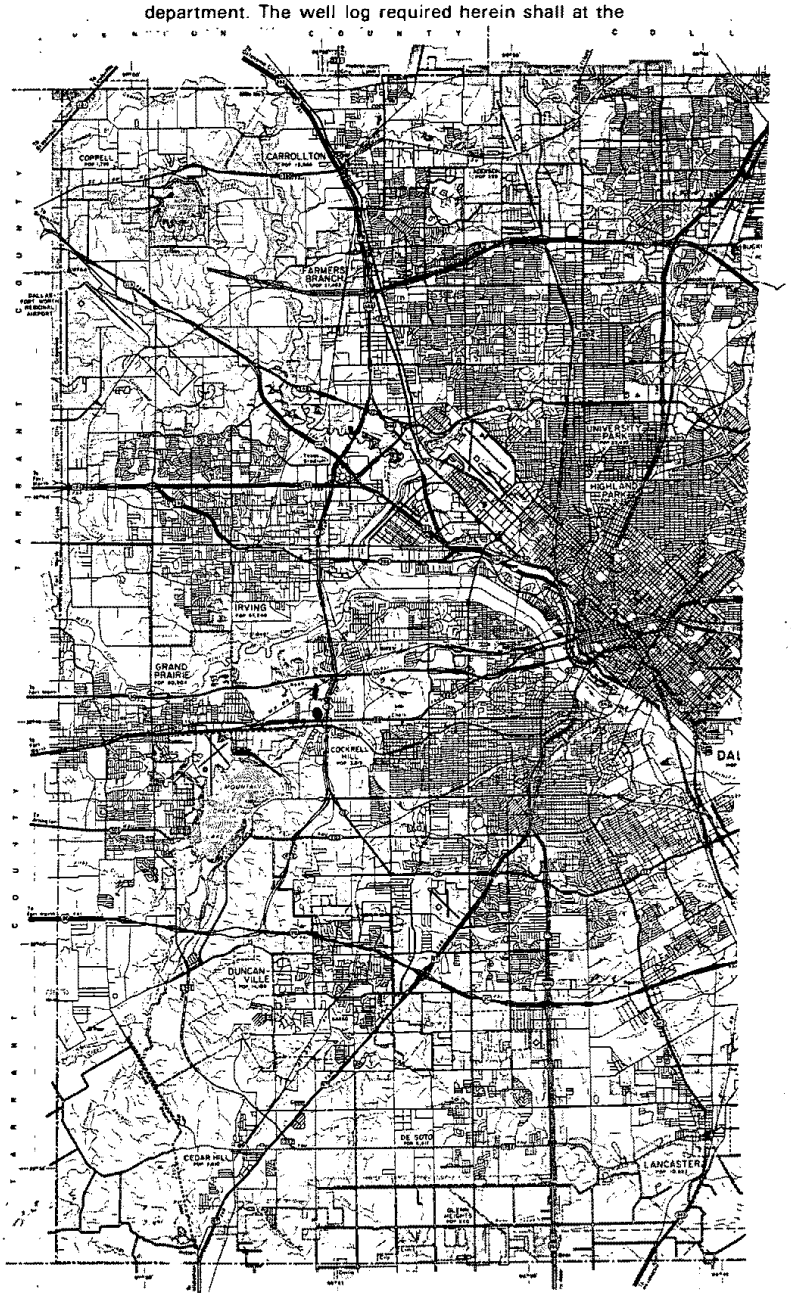


Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-601

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3309601
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.815278
Latitude (degrees minutes seconds)	32° 48' 55" N
Longitude (decimal degrees)	-96.915834
Longitude (degrees minutes seconds)	096° 54' 57" W
Coordinate Source	+/- 5 Seconds
Aquifer Code	212WDBN - Woodbine Sand
Aquifer	Woodbine
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	438
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	443
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1957
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	No
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Petrocarbon Chemical Inc
Driller	J.L. Myers Sons
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.

Send original copy by certified mail to the Texas Water Development Board P. O. Box 13087 Austin, Texas 78711

State of Texas

WATER WELL REPORT

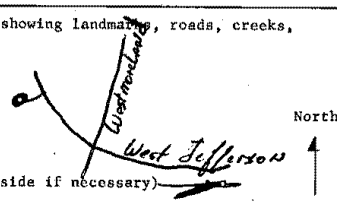
For TWDB use only
Well No. 33-17-3A
Located on map 1/4 S
Received: 73
dlr

1) OWNER:
Person having well drilled Texas Auto Salvage (Name) Address 6852 W. Jefferson (Street or RFD) Dallas (City) Texas (State)

Landowner Same (Name) Address Same (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Dallas, _____ miles in in Dallas City Limits direction from _____ (N.E., S.W., etc.) (Town)

Locate by sketch map showing landmarks, roads, creeks, hiway number, etc.*



(Use reverse side if necessary)

or

Give legal location with distances and directions from adjacent sections or survey lines.

Labor _____ League _____

Block _____ Survey _____

Abstract No. _____

(NW¼ NE¼ SW¼ SE¼) of Section _____

3) TYPE OF WORK (Check):
New Well x Deepening
Reconditioning Plugging

4) PROPOSED USE (Check):
Domestic x Industrial Municipal
Irrigation Test Well Other

5) TYPE OF WELL (Check):
Rotary Driven Dug
Cable Jetted Bored x

6) WELL LOG:
Diameter of hole 36" in. Depth drilled 50' ft. Depth of completed well 50' ft. Date drilled 12/22/72

All measurements made from 0 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
1	15	Dark Dirt
15	22	Dark Brown Dirt
22	32	Dark Brown Clay
32	50	Light Brown Clay

(Use reverse side if necessary)

9) Casing:
Type: Old New x Steel Plastic Other x
Cemented from _____ ft. to _____ ft.

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Gage
32½"		50'	2½"

10) SCREEN:
Type _____
Perforated Slotted

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Slot Size

7) COMPLETION (Check):
Straight wall x Gravel packed Other
Under reamed Open Hole

8) WATER LEVEL:
Static level _____ ft. below land surface Date _____
Artesian pressure _____ lbs. per square inch Date _____
Depth to pump bowls, cylinder, jet, etc., _____ ft. below land surface.

11) WELL TESTS:
Was a pump test made? Yes No x If yes, by whom?
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.
Bailer test _____ gpm with _____ ft. drawdown after _____ hrs.
Artesian flow _____ gpm
Temperature of water _____

12) WATER QUALITY:
Was a chemical analysis made? Yes No x
Did any strata contain undesirable water? Yes No
Type of water? _____ depth of strata _____

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME Liberty Drilling Company (Type or Print) Water Well Drillers Registration No. 1142

ADDRESS P.O. Box 648 (Street or RFD) Mesquite, (City) Texas 75149 (State)

(Signed) [signature] (Water Well Driller) Liberty Drilling Company (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

TWDBE-WD-8

Attention Owner: Confidentiality Privilege Notice on reverse side of owner's copy.

Texas Department of License and Regulation

Water Well Driller/Pump Installer Program
P.O. Box 12157 Austin, Texas 78711 (512)463-7880 FAX (512)463-8616
Toll free (800)803-9202
Email address: water.well@license.state.tx.us

This form must be completed and filed with the department and owner within 60 days upon completion of the well.

WELL REPORT

1) OWNER

Name	Address	City	State	Zip
Oak Grove Memorial Gardens	1413 E. Irving Blvd	Irving	TX	75060

2) WELL LOCATION

County	Physical Address	City	State	Zip
Dallas	1413 E. Irving Blvd	Irving	TX	75060

3) Type of Work
☒ New Well ☐ Deepening ☐ Reconditioning

Lat. Long. Grid # 33-09-5

4) Proposed Use (check) ☐ Monitor ☐ Environmental Soil Boring ☐ Domestic ☐ Industrial ☒ Irrigation ☐ Injection ☐ Public Supply ☐ De-watering ☐ Testwell
If Public Supply well, were plans submitted to the TNRCC? ☐ Yes ☐ No

5) N↑

6) Drilling Date
Started 7 / 03 / 00
Completed 9 / 28 / 00

Diameter of Hole

Dia.(in)	From (ft)	To (ft)
14-3/4	0	470

7) Drilling Method (check) ☐ Driven ☐ Air Rotary ☒ Mud Rotary ☐ Bored ☐ Air Hammer ☐ Cable Tool ☐ Jetted ☐ Other

From (ft)	To (ft)	Description and color of formation material
		see attached

(Use reverse side of Well Owner's copy, If necessary)

8) Borehole Completion ☐ Open Hole ☐ Straight Wall
☒ Under-reamed ☒ Gravel Packed ☐ Other
If Gravel Packed give the interval from 387 ft. to 456 ft.

Casing, Blank Pipe, and Well Screen Data

Dia. (in.)	New Or Used	Steel, Plastic, etc. Perf., Slotted, etc Screen Mfg., if commercial	Setting (ft) From	Setting (ft) To	Gage Casing Screen
10	N	Steel	+2	387	
7	N	Steel	336	396	
7	N	SSWW screen	396	446	
7	N	Steel	446	456	

9) Cementing Data
Cementing from 0 ft. to 17 ft. # of sacks used 12
+2 ft. to 387 ft. # of sacks used 130
Method Used Pump down
Cementing By Jet Star
Distance to septic system field or other concentrated contamination ____ ft.
Method of verification of above distance

13) Plugged ☐ Well plugged within 48 hours
Casing left in well: Cement/Bentonite placed in well:

From (ft)	To (ft)	From (ft)	To (ft)	Sacks used

10) Surface Completion
☒ Specified Surface Slab Installed
☐ Specified Surface Sleeve Installed
☐ Pitless Adapter Used
☐ Approved Alternative Procedure Used

14) Typepump
☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder
☐ Other
Depth to pump bowls, cylinder, jet etc., ____ ft.

15) Water Test
Typetest ☒ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: 100 gpm with 121 ft. drawdown after 8 hrs.

11) Water Level
Static level 215 ft. below Date 9 / 23 / 00
Artesian Flow ____ gpm. Date

16) Water Quality
Did you knowingly penetrate and strata which contain undesirable constituents.
☐ YES ☒ NO If yes, did you submit a REPORT OF UNDESIRABLE WATER
Type of water ____ Depth of Strata ____
Was a chemical analysis made ☒ Yes ☐ No

12) Packers

Type	Depth
n/a	

FILED
EMP # JAN 2 2 2001

Company or individual's Name (type or print)	J. L. Myers Company		
Address 8325 Forney Road	City Dallas	State TX	Zip 75227
Signature	1 / 16 / 01	Signature	/ /
Licensed Driller/Pump Installer	Date	Apprentice	Date

TDLR FORM 001WWD *White - TDLR* *Yellow - Owner* *Pink - Driller/Pump Installer* 4811301566

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-512

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3309512
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.809723
Latitude (degrees minutes seconds)	32° 48' 35" N
Longitude (decimal degrees)	-96.931389
Longitude (degrees minutes seconds)	096° 55' 53" W
Coordinate Source	+/- 1 Second
Aquifer Code	212WDBN - Woodbine Sand
Aquifer	Woodbine
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	482
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	505
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1966
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Industrial
Water Level Observation	None
Water Quality Available	Yes
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	C.E. Fann
Driller	E.C. Stone Water Well Drilling
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 6/2/1975 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Woodbine Sand

Analyzed Lab: Texas Department of Health **Reliability:** From well not sufficiently pumped; not filtered or preserved

Collection Remarks: pressure tank

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		5	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		479	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		572.34	mg/L	
00910	CALCIUM (MG/L)		4	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		6	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		133	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		3.4	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		14	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		1	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.4	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		9.3		
00955	SILICA, DISSOLVED (MG/L AS SI02)		14	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		63.73		
00932	SODIUM, CALCULATED, PERCENT		98	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		550	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		2814	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		550	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		23	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1546	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-10-705

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3310705
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.755001
Latitude (degrees minutes seconds)	32° 45' 18" N
Longitude (decimal degrees)	-96.857223
Longitude (degrees minutes seconds)	096° 51' 26" W
Coordinate Source	+/- 10 Seconds
Aquifer Code	218TWMT - Twin Mountains Formation
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	492
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	2634
Well Depth Source	Owner
Drilling Start Date	
Drilling End Date	0/0/1930
Drilling Method	
Borehole Completion	Screened

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	City of Dallas
Driller	R.H.Dearing
Other Data Available	Specific Capacity
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	9/27/2007
Last Update Date	3/4/2020

Remarks	Old well #38. Reworked in 1953 by Layne-Texas. Reported yield 930 GPM with 240 feet drawdown in 1941. Specific capacity 3.8 GPM/ft. Abandoned.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
18	Blank	Steel			0	604
8	Blank	Steel			604	2307
6	Blank	Steel			2307	2634

Well Tests - No Data

Lithology - No Data

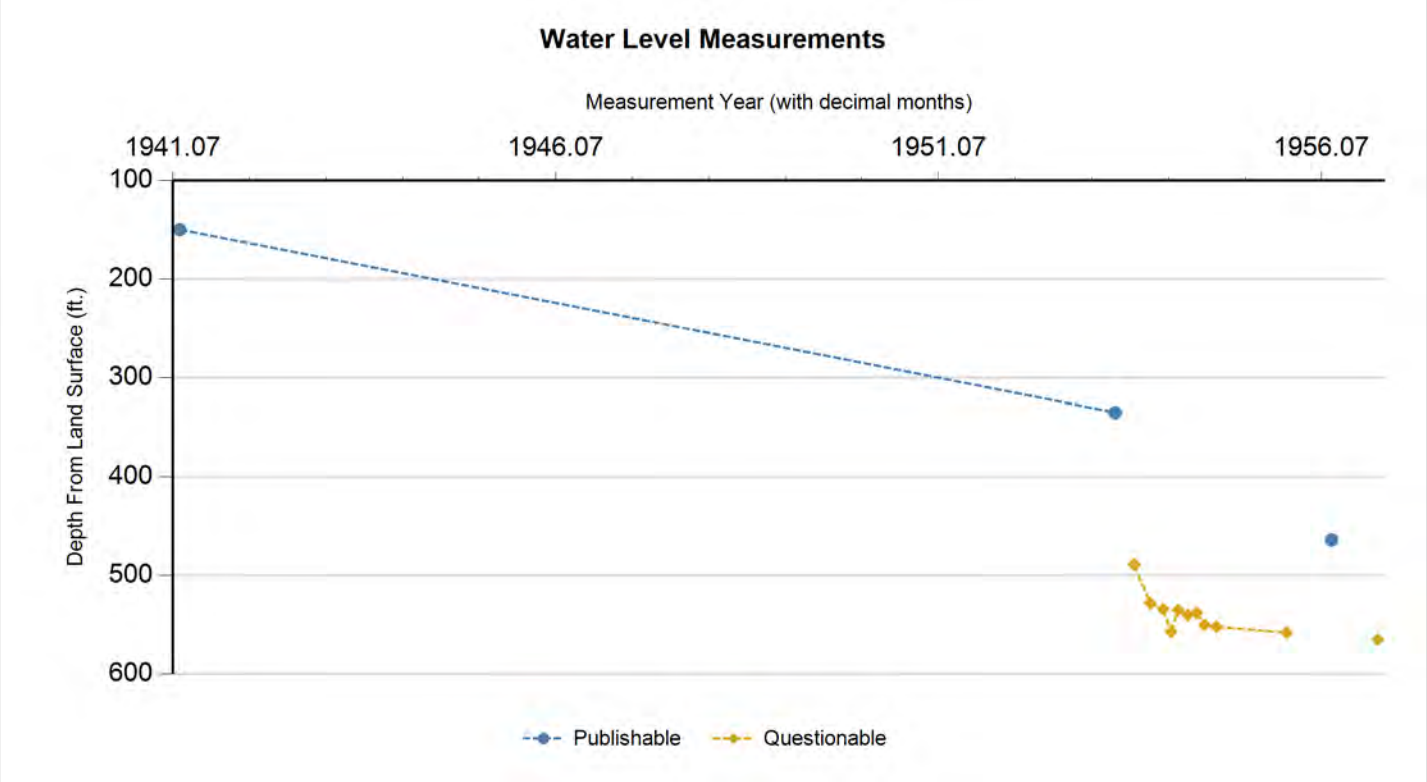
Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	0/0/1941		150		342	1	Municipal Water Agency or PWS Corporation	Air Line		
P	5/18/1953		335	185.00	157	1	Municipal Water Agency or PWS Corporation	Air Line		
Q	8/18/1953		489	154.00	3	1	Municipal Water Agency or PWS Corporation	Air Line	2	
Q	11/5/1953		528	39.00	-36	1	Municipal Water Agency or PWS Corporation	Air Line	2	
Q	1/1/1954		534	6.00	-42	1	Municipal Water Agency or PWS Corporation	Air Line	2	
Q	2/9/1954		557	23.00	-65	1	Municipal Water Agency or PWS Corporation	Air Line	2	
Q	3/12/1954		535	(22.00)	-43	1	Municipal Water Agency or PWS Corporation	Air Line	2	
Q	4/28/1954		540	5.00	-48	1	Municipal Water Agency or PWS Corporation	Air Line	2	
Q	6/11/1954		538	(2.00)	-46	1	Municipal Water Agency or PWS Corporation	Air Line	2	
Q	7/19/1954		550	12.00	-58	1	Municipal Water Agency or PWS Corporation	Air Line	2	
Q	9/15/1954		552	2.00	-60	1	Municipal Water Agency or PWS Corporation	Air Line	2	
Q	8/15/1955		558	6.00	-66	1	Municipal Water Agency or PWS Corporation	Air Line	2	
P	3/14/1956		464	(94.00)	28	1	Municipal Water Agency or PWS Corporation	Air Line		
Q	10/25/1956		565	101.00	-73	1	Municipal Water Agency or PWS Corporation	Air Line	2	

Code Descriptions

Status Code	Status Description
P	Publishable
Q	Questionable

Remark ID	Remark Description
2	Pumping-level measurement

Water Quality Analysis

Sample Date: 6/26/1942 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Other Federal Agencies

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: University of Texas **Reliability:** Reliability unknown or not available

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		408.2	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		498.15	mg/L	
00910	CALCIUM (MG/L)		6.8	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		80	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.7	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		26	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		2.4	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		2.5	mg/L as NO3	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.63		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		33.81		
00932	SODIUM, CALCULATED, PERCENT		96	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		394	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		341	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1073	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-10-706

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3310706
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.754723
Latitude (degrees minutes seconds)	32° 45' 17" N
Longitude (decimal degrees)	-96.858889
Longitude (degrees minutes seconds)	096° 51' 32" W
Coordinate Source	+/- 10 Seconds
Aquifer Code	212WDBN - Woodbine Sand
Aquifer	Woodbine
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	500
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	829
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1964
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	None
Water Quality Available	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Stevens Plaza Apartmnt
Driller	J.L. Myers Sons
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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8A GW 7

Send original copy by certified mail to the Texas Water Development Board P. O. Box 12386 Austin, Texas 78711	State of Texas WATER WELL REPORT	For TWDB use only Well No. 33-09-4A Located on map yes Received: 66 Form GW 8 Form GW 9

1) OWNER:
Person having well drilled Dr. Herman H. Plattner (Name) Address 322 NE 8th. St. (Street or RFD) Grand Prairie (City) (State)

Landowner Same (Name) Address (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Dallas Labor League Abstract No.

NW¼ NE¼ SW¼ SE¼ of Section Block No. Survey
(Circle as many as are known)

1 miles in S (N.E., S.W., etc.) direction from Irving, Texas (Town)

NORTH

See Attached Map

Sketch map of well location with distances from adjacent section or survey lines, and to landmarks, roads, and creeks.

3) TYPE OF WORK (Check):
New Well ☑ Deepening ☐
Reconditioning ☐ Plugging ☐

4) PROPOSED USE (Check):
Domestic ☑ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

5) TYPE OF WELL (Check):
Rotary ☑ Driven ☐ Dug ☐
Cable ☐ Jetted ☐ Bored ☐

6) WELL LOG:
Diameter of hole 6 3/4 in. Depth drilled 450 ft. Depth of completed well 450 ft. Date drilled 11-14-66

All measurements made from 1 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material	From (ft.)	To (ft.)	Description and color of formation material
0	3	Top Soil	190	222	Grey Shale
3	25	Brown Clay	222	243	Broken Shly Sand
25	50	Clay + Gravel Stks.	243	326	Grey Shale
50	66	Sand + Gravel	326	398	Sand-Shly-Hard-Fine Grain
66	160	Blue Shale	398	404	Sand-Med. Grain-Soft.
160	167	Shly Sand	404	406	Shale
167	180	Shale-Thin Sdy Stks.	406	435	Sand-Coarse Grain-Good
180	190	Shly Sand-Fine Grain	435	450	Shdy Sand

(use reverse side if necessary)

7) COMPLETION (Check):
Straight wall ☐ Gravel packed ☐ Other ☐
Under reamed ☐ Open hole ☑

8) WATER LEVEL:
Static level 165 ft. below land surface Date 11-21-66
Artesian pressure lbs. per square inch Date

9) CASING:
Type: old ☐ New ☑ Steel ☑ Plastic ☐ Other ☐
Cemented from 408 ft. to 0' ft.

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Gage
4½"	0	408	9#

10) SCREEN:
Type
Perforated ☐ Slotted ☐

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Slot size

11) WELL TESTS:
Was a pump test made? ☑ Yes ☐ No If yes by whom?
Myself

Yield: gpm with ft. drawdown after hrs

Bailer test 12 gpm with 35 ft. drawdown after 2 hrs

Artesian flow gpm Date 11-21-66

Temperature of water

Was a chemical analysis made? ☐ Yes ☑ No

Did any strata contain undesirable water? ☐ Yes ☑ No

Type of water? depth of strata

12) PUMP DATA:
Manufacturer's Name

Type H.P.

Designed pumping rate gpm ☐ gph ☐

Type power unit

Depth to bowls, cylinder, jet, etc., ft. below land surface.

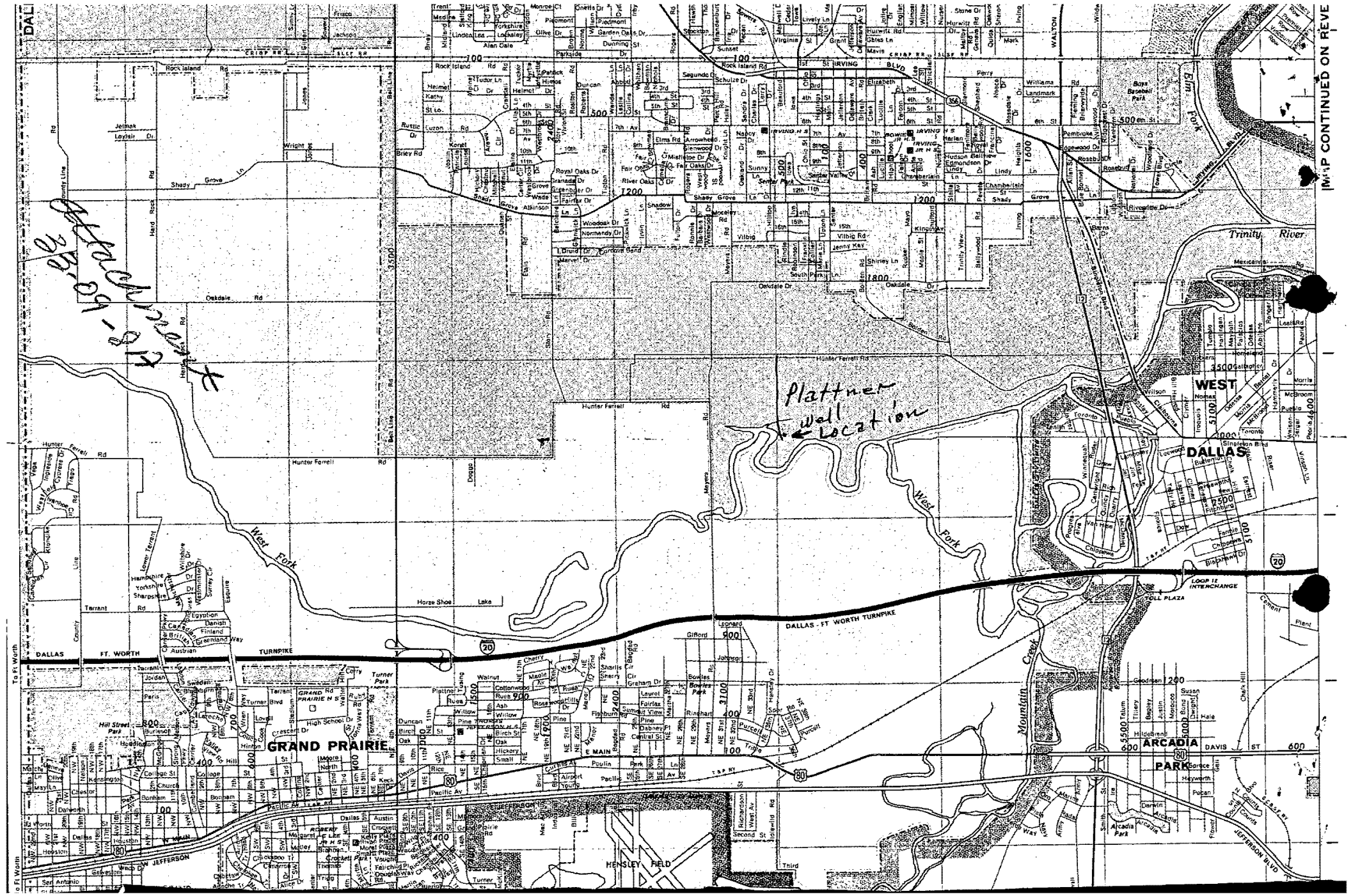
I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME E. C. Stone (Type or Print) Water Well Drillers Registration No. 838

Address 306 N. Pecan St. (Street or RFD) Arlington (City) Texas (State)

(Signed) E. C. Stone (Water Well Driller) E. C. Stone Water Well Drlg. Co. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.


Plattner Wall Location
West Fork
Trinity River
Elm Fork
DALLAS - FT. WORTH TURNPIKE
DALLAS
FT. WORTH
TURNPIKE
GRAND PRAIRIE
ARCADIA PARK
WEST DALLAS
HENSLEY FIELD
Mountain Creek
Horse Shoe Lake
TOLL PLAZA
LOOP 12 INTERCHANGE
IRVING BLVD
JEFFERSON BLVD
W JEFFERSON
E MAIN
DAVIS ST
Hunter Ferrell Rd
Oakdale Rd
Shady Grove Ln
Rock Island Rd
Bonham
Pacific Av
Tarrant Rd
Hard Rock Rd
Bell Line Rd
Belt Line Rd
Dallas Area Rapid Transit
Hill Street Park
Turner Park
Bowles Park
Kiest Park
Arcadia Park
Boys Baseball Park
Senter Park
Trinity Valley
Mexicanna Rd
Singleton Blvd
Riverview Dr
Chalk Hill
Cockrell Hill Rd
Belt Line Rd
Hunter Ferrell Rd
Oakdale Rd
Shady Grove Ln
Rock Island Rd
Bonham
Pacific Av
Tarrant Rd
Hard Rock Rd
Bell Line

Please use black ink. Send original copy by certified mail to the Texas Water Commission P.O. Box 13087 Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

Texas Water Well Drillers Board
P. O. Box 13087
Austin, Texas 78711

1) OWNER D. J. Barbaria (Name) Address 435 Shady Ln (Street or RFD) Southlake (City) Tx (State) (Zip)

2) LOCATION OF WELL: County Dallas _____ miles in _____ (N.E., S.W., etc.) direction from _____ (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

☑ See attached map.

3) TYPE OF WORK (Check): ☑ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check): ☑ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ Other _____

5) DRILLING METHOD (Check): ☐ Driven ☐ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored ☑ Air Rotary ☐ Cable Tool ☐ Other _____

6) WELL LOG:
Date Drilling: Started 5 1988 Completed _____ 19__

DIAMETER OF HOLE Dia. (in.)	From (ft.)	To (ft.)
6 3/4	Surface	100

7) BOREHOLE COMPLETION: ☑ Open Hole ☐ Straight Wall ☐ Underreamed ☐ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

From (ft.)	To (ft.)	Description and color of formation material
0	2	Topsoil
2	12	Clay
12	100	Shell

Waiting to go to a deeper strata

MR

RECEIVED AUG 15 1988 TEXAS WATER COMMISSION

(Use reverse side if necessary)

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgf., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen

9) CEMENTING DATA [Rule 319.44(b)]
Cemented from _____ ft. to _____ ft. No. of Sacks Used _____
_____ ft. to _____ ft. No. of Sacks Used _____
Method used _____
Cemented by _____

10) SURFACE COMPLETION
☐ Specified Surface Slab Installed [Rule 319.44(c)]
☐ Pitless Adapter Used [Rule 319.44(d)]
☐ Approved Alternative Procedure Used [Rule 319.71]

11) WATER LEVEL:
Static level _____ ft. below land surface Date _____
Artesian flow _____ gpm. Date _____

12) PACKERS: Type Depth

13) TYPE PUMP:
☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., _____ ft.

15) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☑ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☑ No

14) WELL TESTS:
Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: 0 gpm with _____ ft. drawdown after _____ hrs.

I here by certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 12 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME Romin Drilling (Type or Print) Water Well Driller's License No. 2154

ADDRESS Box 7 (Street or RFD) Rhome (City) Tx (State) 76078 (Zip)

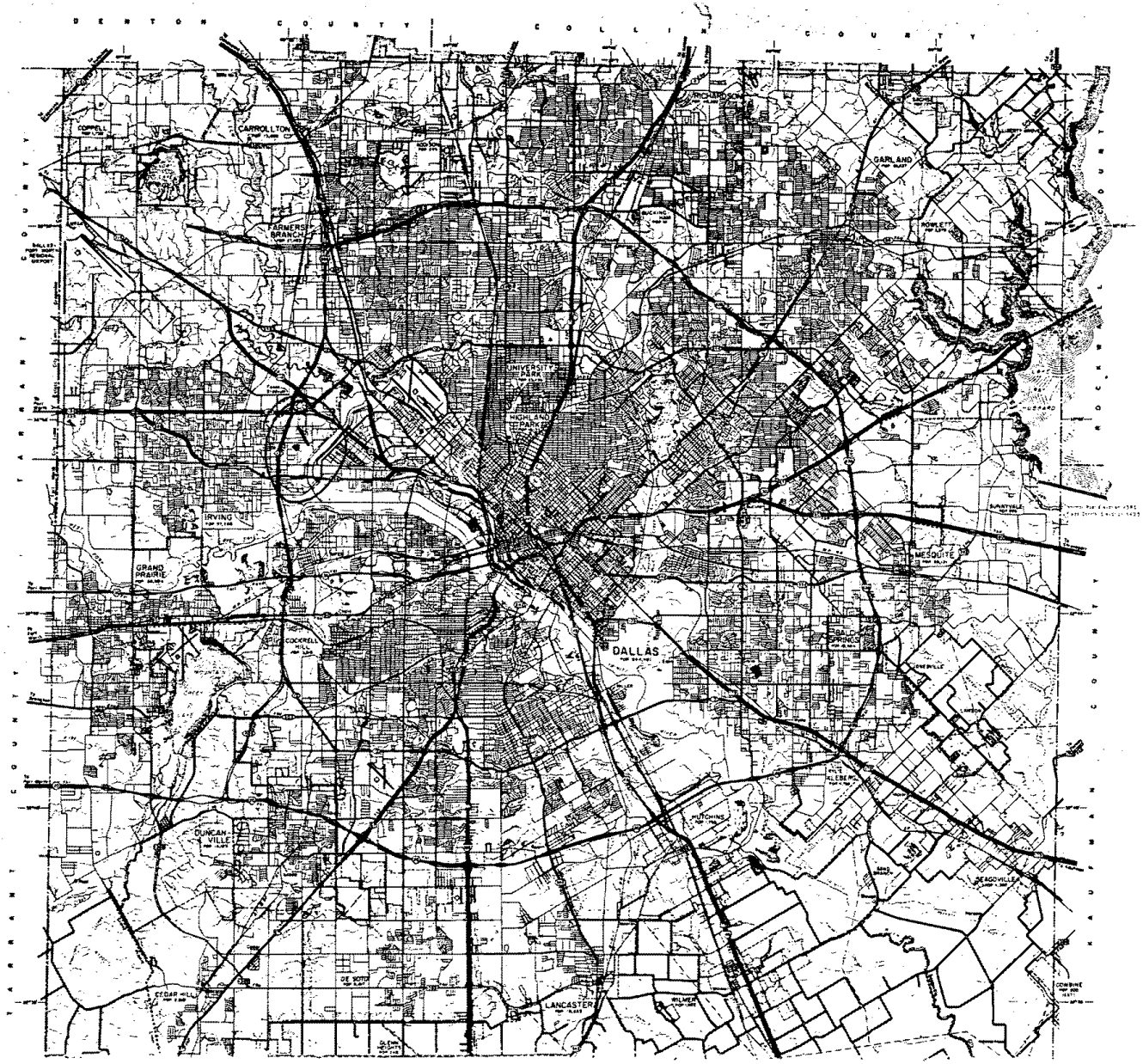
(Signed) Mark Romin (Licensed Water Well Driller) (Signed) _____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only
Well No. 33-09-6
Located on map _____

WWD-012 (Rev.01-28-87)

TEXAS WATER COMMISSION COPY



LEGEND

KEY TO COUNTIES

GENERAL HIGHWAY MAP

DALLAS COUNTY TEXAS

PREPARED BY THE
STATE DEPARTMENT OF HIGHWAYS
AND PUBLIC TRANSPORTATION
TRANSPORTATION PLANNING DIVISION
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

SCALES

1975

Send original copy by certified mail to the Texas Water Development Board P. O. Box 13087 Austin, Texas 78711

State of Texas

WATER WELL REPORT

For TWDB use only
Well No. 33-10-07
Located on map N/O
Received: 8-7-73

1) OWNER:
Person having well drilled Rev. P. B. Oldham Jr. (Name) Address 1616 Bayside (Street or RFD) Dallas, (City) Texas (State)

Landowner same (Name) Address same (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Dallas, _____ miles in 7 (N.E., S.W., etc.) direction from Downtown (Town)

Locate by sketch map showing landmarks, roads, creeks, hiway number, etc.*

Hampton

North

(Use reverse side if necessary)

or

Give legal location with distances and directions from adjacent sections or survey lines.

Labor _____ League _____

Block _____ Survey _____

Abstract No. _____

(NW¼ NE¼ SW¼ SE¼) of Section _____

3) TYPE OF WORK (Check):
New Well X Deepening
Reconditioning Plugging

4) PROPOSED USE (Check):
Domestic X Industrial Municipal
Irrigation Test Well Other

5) TYPE OF WELL (Check):
Rotary Driven Dug
Cable Jetted Bored X

6) WELL LOG:
Diameter of hole 36 in. Depth drilled 40 ft. Depth of completed well 40 ft. Date drilled 6/20/72

All measurements made from 0 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
1	4	Black Dirt
4	16	Dark Clay
16	20	Light Clay
20	40	Blue Shale

(Use reverse side if necessary)

9) Casing:
Type: Old New X Steel Plastic Other X
Cemented from _____ ft. to _____ ft.

Diameter (inches)	Setting From (ft.)	To (ft.)	Gage
34	2" above G.L.	40	2½

10) SCREEN:
Type _____
Perforated Slotted

Diameter (inches)	Setting From (ft.)	To (ft.)	Slot Size

7) COMPLETION (Check):
Straight wall X Gravel packed Other
Under reamed Open Hole

8) WATER LEVEL:
Static level _____ ft. below land surface Date _____
Artesian pressure _____ lbs. per square inch Date _____
Depth to pump bowls, cylinder, jet, etc., _____ ft. below land surface.

11) WELL TESTS:
Was a pump test made? Yes No X If yes, by whom?
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.
Bailer test _____ gpm with _____ ft. drawdown after _____ hrs.
Artesian flow _____ gpm
Temperature of water _____

12) WATER QUALITY:
Was a chemical analysis made? Yes No X
Did any strata contain undesirable water? Yes No
Type of water? _____ depth of strata _____

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME Liberty Drilling Company (Type or Print) Water Well Drillers Registration No. 1142

ADDRESS P.O. Box 648 (Street or RFD) Mesquite, (City) (State) Texas

(Signed) C. S. Sandefer (Water Well Driller) Liberty Drilling Company (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

TWDBE-WO-8

4811200330

.4m: SINL
.4m: EIWL

Please use black ink.
Send original copy by certified mail to the
Texas Department of Water Resources
P. O. Box 13087
Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

Texas Water Well Drillers Board
P. O. Box 13087
Austin, Texas 78711

1) OWNER Arthur Broyles (Name) Address 1624 Etain Rd (Street or RFD) Irving (City) Tx (State) 75060 (Zip)

2) LOCATION OF WELL:
County Dallas _____ miles in _____ (N.E., S.W., etc.) direction from _____ (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
2 ☑ See attached map. mapon 33-09-7

3) TYPE OF WORK (Check):
☑ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):
☑ Domestic ☐ Industrial ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check):
☐ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored ☑ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:
Date drilled 9-86

DIAMETER OF HOLE Dia. (in.)	From (ft.)	To (ft.)
	Surface	
12¼	0	36
6½	36	410

From (ft.)	To (ft.)	Description and color of formation material
0	12	Topsoil
12	23	Sand & Gravel
23	40	Blue Shell
40	80	Blue Shell
80	100	Blue Shell
100	120	Blue Shell
120	140	Blue Shell
140	200	Blue Shell
200	207	Blue Shell
207	215	Sand
215	240	Blue Shell & Sand streaks
240	280	Blue Shell & Sand Streaks
280	323	Sand
323	340	Blueshell & Sand streaks
340	375	Blue Shell & Sand
370	385	Blue Shell & sand streaks
385	410	Blue Shell

(Use reverse side if necessary)

7) BOREHOLE COMPLETION:
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☑ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from 70 ft. to 410 ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgf., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
4½	N	Plastic	+2½	410	40
		Perf	220	410	36
		7" Shell from 0 to 36'			

9) CEMENTING DATA [Rule 319.44(b)]
Cemented from +16" ft. to 70' ft.
_____ ft. to _____ ft.
Method used _____
Cemented by _____

10) SURFACE COMPLETION
☐ Specified Surface Slab Installed [Rule 319.44(c)]
☐ Pitless Adapter Used [Rule 319.44(d)]
☑ Approved Alternative Procedure Used [Rule 319.71]

11) WATER LEVEL:
Static level 180 ft. below land surface Date _____
Artesian flow _____ gpm. Date _____

12) PACKERS: Type Depth
none

13) TYPE PUMP:
☐ Turbine ☐ Jet ☑ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., _____ ft.

14) WELL TESTS:
Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☑ Estimated
Yield: 10 gpm with _____ ft. drawdown after _____ hrs.

15) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☑ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☑ No

RECEIVED
OCT - 7 1986
TEXAS WATER COMMISSION

I here by certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 12 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME Miller Drilling (Type or Print) Water Well Driller's License No. 2436

ADDRESS P. O. Box 7 (Street or RFD) Rhome (City) Tx (State) 76078 (Zip)

(Signed) Jimmy P. Miller (Licensed Water Well Driller) (Signed) _____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TDWR use only
Well No. 33-09-8
Located on map _____

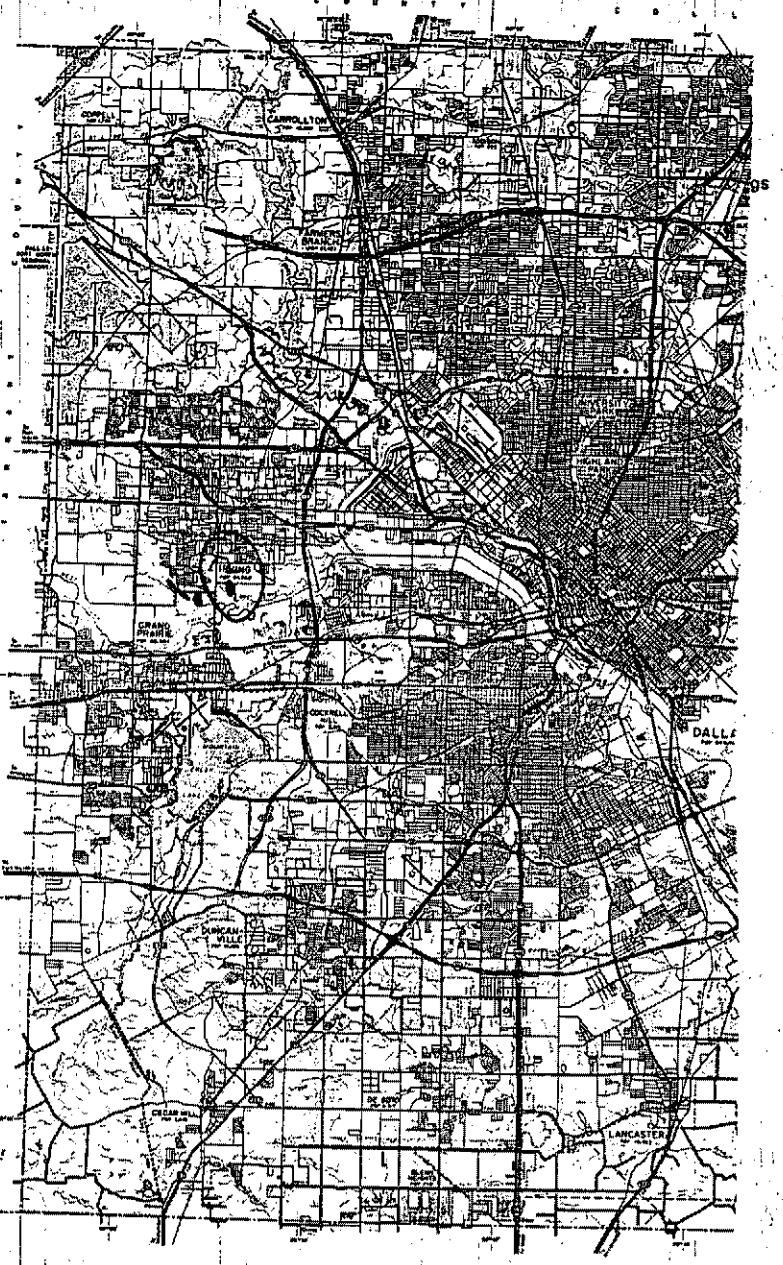
DEPARTMENT OF WATER RESOURCES COPY

TDWR-0392 (12/29/83)

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING PRIVILEGE OF CONFIDENTIALITY

The Water Well Drillers Board and the Department of Water Resources are concerned that some persons having water wells drilled may not be aware of the confidentiality privilege provision of Section 5 of the Water Well Drillers Act. Section 5, the Reporting of Well Logs, reads as follows:

> "Every licensed water well driller drilling, deepening or otherwise altering a water well within this State shall make and keep, or cause to be made and kept, a legible and accurate well log, and within 30 days from the completion or cessation of drilling, deepening or otherwise altering such a water well, shall deliver or transmit by certified mail a copy of such well log to the department, and the owner thereof or the person having had



STATE OF TEXAS WELL REPORT for Tracking #526260

Owner:	**City Of Irving Landfill**	Owner Well #:	**UV-2**
Address:	**110 E. Hunter Ferrell Road Irving, TX 75060**	Grid #:	**33-09-8**
Well Location:	**110 Hunter Ferrell Road Irving, TX 75060**	Latitude:	**32° 47' 11.52" N**
		Longitude:	**096° 57' 03.36" W**
Well County:	**Dallas**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Utility Trench Vent**

Drilling Start Date: **10/31/2019** Drilling End Date: **10/31/2019**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8.5**	**0**	**4.8**

Drilling Method: **Hydro-vac**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**1**	**1.5**	**Sand**	**10/20**
	1.5	**4.8**	**Gravel**	**0.375**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0.5**	**1**	**Bentonite 1 Bags/Sacks**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **C&S Lease**

1873 FM 1252 E
Kilgore, TX 75663

Driller Name: **Buford E. Collier** License Number: **50089**

Apprentice Name: **David Diduch** Apprentice Number: **60297**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**4.8**	**Silty, Fat Clay with Gravel, Moist**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	**Riser**	**New Plastic (PVC)**	**40**	**0**	**1.5**
2	**Screen**	**New Plastic (PVC)**	**40 0.020**	**1.5**	**4.8**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #526262

Owner:	**City Of Irving Landfill**	Owner Well #:	**UV-1**
Address:	**110 E. Hunter Ferrell Road Irving, TX 75060**	Grid #:	**33-09-8**
Well Location:	**110 Hunter Ferrell Road Irving, TX 75060**	Latitude:	**32° 47' 11.52" N**
		Longitude:	**096° 57' 03.6" W**
Well County:	**Dallas**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Utility Trench Vent**

Drilling Start Date: **10/31/2019** Drilling End Date: **10/31/2019**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8.5**	**0**	**6.3**

Drilling Method: **Hydro-vac**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**1**	**1.5**	**Sand**	**10/20**
	1.5	**6.3**	**Gravel**	**0.375**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0.5**	**1**	**Bentonite 1 Bags/Sacks**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **C&S Lease**

1873 FM 1252 E
Kilgore, TX 75663

Driller Name: **Buford E. Collier** License Number: **50089**

Apprentice Name: **David Diduch** Apprentice Number: **60297**

Comments: **No Data**

Report Amended on 11/19/2019 by Request #29318

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**6.3**	**Silty, Fat Clay with Gravel, Moist**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	**Riser**	**New Plastic (PVC)**	**40**	**1**	**1.5**
2	**Screen**	**New Plastic (PVC)**	**40 0.020**	**1.5**	**6.3**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #131008

Owner:	**Bischofhausen, Richard**	Owner Well #:	**No Data**
Address:	**1809 Williams Rd. Irving, TX 75061**	Grid #:	**33-09-5**
Well Location:	**No Data**	Latitude:	**32° 48' 58" N**
		Longitude:	**096° 55' 54" W**
Well County:	**Dallas**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **10/30/2007** Drilling End Date: **10/30/2007**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**7.875**	**0**	**160**

Drilling Method: **Air Rotary**

Borehole Completion: **Unknown**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

Distance to Property Line (ft.): **55+**

Distance to Septic Field or other concentrated contamination (ft.): **150+**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Owner**

Surface Completion: **Unknown**

Water Level: **160 ft.** below land surface on **2007-12-04** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Description (number of sacks & material)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Plug Information:	**0'-20' 6 bags cement**		
	20'-160' backfill w/cuttings		

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Ledger Drilling Co.**

PO Box 7
Rhone, TX 76078

Driller Name: **Preistly Ledger** License Number: **54848**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

From (ft) To (ft)	Description
0-10	**topsoil**
10-25	**clay**
25-45	**lime**
45-115	**blue shale**
115-125	**lime**
125-160	**blue shale**
Dry Hole	

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

Send original copy by certified return receipt requested to: TNRCC, MC 177, P.O. Box 13087, Austin, TX 78711-30[redacted] 57

ATTENTION OWNER: *Confidentiality Privilege Notice on on reverse side of Well Owner's copy (pink)*

State of Texas WELL REPORT

Texas Water Well Drillers Advisory Council
MC 177
P.O. Box 13087
Austin, TX 78711-3087
512-239-0530

1) **OWNER** Frito Lay, Inc. (Name) **ADDRESS** 701 N. Wildwood Irving, TX 75061 (Street or RFD) (City) (State) (Zip)

2) **ADDRESS OF WELL:** County Dallas 701 N. Wildwood Irving, TX 75061 (Street, RFD or other) (City) (State) (Zip) **GRID #** 33-09-6

3) **TYPE OF WORK (Check):** [x] New Well [ ] Deepening [ ] Reconditioning [ ] Plugging

4) **PROPOSED USE (Check):** [ ] Monitor [ ] Environmental Soil Boring [ ] Domestic [x] Industrial [ ] Irrigation [ ] Injection [ ] Public Supply [ ] De-watering [ ] Testwell
If Public Supply well, were plans submitted to the TNRCC? [ ] Yes [ ] No

5)

6) **WELL LOG:**
Date Drilling:
Started Dec. 19 99
Completed May 19 00

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
20	Surface	2130
24	2130	2300

7) **DRILLING METHOD (Check):** [ ] Driven [ ] Air Rotary [x] Mud Rotary [ ] Bored [ ] Air Hammer [ ] Cable Tool [ ] Jetted [ ] Other

N

From (ft.)	To (ft.)	Description and color of formation material
		See attached

(Use reverse side of Well Owner's copy, if necessary)

8) **Borehole Completion (Check):** [ ] Open Hole [ ] Straight Wall [x] Underreamed [x] Gravel Packed [ ] Other
If Gravel Packed give interval ... from 2130 ft. to 2300 ft.

CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casting Screen
22	N	Steel	0	56	
16	N	Steel	+2	2132	62lb
10	N	Steel	1992	2142	40.5lb
10	N	Screen	2142	2300	

9) **CEMENTING DATA** [Rule 338.44(1)]
Cemented from 0 ft. to 2130 ft. No. of sacks used 1000
ft. to ft. No. of sacks used
Method used Pump down
Cemented by Jet Star
Distance to septic system field lines or other concentrated contamination ft.
Method of verification of above distance

13) **TYPE PUMP:** [x] Turbine [ ] Jet [ ] Submersible [ ] Cylinder [ ] Other
Depth to pump bowls, cylinder, jet, etc., 1200 ft.

10) **SURFACE COMPLETION**
[x] Specified Surface Slab Installed [Rule 338.44(2)(A)]
[ ] Specified Steel Sleeve Installed [Rule 338.44(3)(A)]
[ ] Pitless Adapter Used [Rule 338.44(3)(b)]
[ ] Approved Alternative Procedure Used [Rule 338.71]

14) **WELL TESTS:**
Type test: [x] Pump [ ] Bailer [ ] Jetted [ ] Estimated
Yield: 830 gpm with 110 ft. drawdown after 18 hrs.

11) **WATER LEVEL:**
Static level 790 ft. below land surface Date 3-21-00
Artesian flow gpm. Date

15) **WATER QUALITY:**
Did you knowingly penetrate any strata which contained undesirable constituents?
[ ] Yes [x] No If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? Depth of strata
Was a chemical analysis made? [ ] Yes [ ] No

12) **PACKERS:** Type Depth
n/a

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME J. L. Myers Company (Type or print) **WELL DRILLER'S LICENSE NO.** 1752WPKT

ADDRESS 8325 Forney Road (Street or RFD) Dallas (City) TX (State) 75227 (Zip)

(Signed) K. D. Watson (Licensed Well Driller) **(Signed)** (Registered Driller Trainee)

SEQ # COMP # MAY 15 2000

Please attach electric log, chemical analysis, and other pertinent information, if available.

TNRCC-0199 (Rev. 05-21-96) *White - TNRCC* *Yellow - DRILLER* *Pink - WELL OWNER* 33-09-6

RECORD OF DEEP WELL AND PUMP

FRITO LAY, INC.
IRVING PLANT – WELL NO. 1

DRILLED BY : J. L. MYERS COMPANY
8325 FORNEY ROAD
DALLAS, TX 75227

214 388-7407

MRV TECHNOLOGIES, INC.
104 W. MORROW, SUITE 200
GEORGETOWN, TX 78626

512 948-0055

SEQ #
EMP #
DESC CO
MAY 15 2000
COMMENT

33-09-6

DRILLER'S LOG

OWNER : FRITO LAY, INC. – WELL NO. 1
701 N. WILDWOOD
IRVING, TX

LOCATION : WEST SIDE OF PLANT AND SOUTH OF UNION BOWER
IRVING, DALLAS COUNTY, TEXAS

DATE : DECEMBER 1999

DRILLER : C. A. WILLIAMS

DEPTH OF STRATA From	To	EACH STRATUM Feet	DESCRIPTION
0	131	131	Sand, gravel and sdy shale
131	220	89	Shale
220	240	20	Gravel
240	280	40	Lime & shale
280	295	15	Sand
295	825	530	Shale
825	890	65	Shale and hard sand
890	955	65	Shale and sand
955	1040	85	Shale
1040	1110	70	Limestone, shale streaks
1110	1220	110	Sand, shale streaks
1220	1250	30	Shale
1250	1345	95	Sand, sandy shale
1345	1460	115	Shale, lime streaks
1460	1810	350	Shale, limestone and sand streaks
1810	1970	160	Shale, sdy
1970	2030	60	Sandy shale
2030	2090	60	Shale
2090	2290	200	Sand
2290	2300	10	Shale, hard

J. L. MYERS COMPANY
8325 FORNEY ROAD
DALLAS, TX 75227

SEQ #
DESC CO
MAY 15 2000
COMMENT
33-09-6

MATERIAL SETTING

OWNER : FRITO-LAY, INC. – WELL NO. 1
701 N. WILDWOOD
IRVING, TX

LOCATION : WEST SIDE OF PLANT AND SOUTH OF UNION BOWER
IRVING, DALLAS COUNTY, TX

DATE : DECEMBER 2000

FROM	TO	AMOUNT	DESCRIPTION
0	25	25	24" surface pipe cemented in place
0	56	56	22" surface casing cemented in place
+2	2130	2132	16"OD 62#/ft .375" PEB casing with float collar and centralizers in a 20" hole. Cemented by Jet Star with 1000 sacks Class plus 8% gel
1992	2142	150	10-3/4"OD 40.5#/ft T&C blank liner with R& L
2142	2152	10	10-3/4"SS wire wrapped Underbar plus WESCO screen .020" opening
2152	2160	8	10-3/4" blank
2160	2172	12	10-3/4" screen
2172	2180	8	10-3/4" blank with centralizer
2180	2290	110	10-3/4" screen
2290	2300	10	10-3/4" blank
2132	2300	168	24" underreamed hoe packed with Brady 8x16 gravel.

J. L. MYERS COMPANY
8325 FORNEY ROAD
DALLAS, TX 75227

SEQ #
EMP #
DESC CO
MAY 15 2000
COMMENT

33-09-6

Cementer: Fill in shaded areas.
Operator: Fill in other items.

Form W-15
Cementing Report
Rev. 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1. Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
J. L. Myers Company			Dallas

5. Field Name (Wildcat or exactly as shown on RRC records)	6. API No.	7. Drilling Permit No.
	42-	

8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No.
Frito-Lay			1380-99

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date				2/23/00			
13. •Drilled hole size				20			
•Est. % wash or hole enlargement				10%			
14. Size of casing (in. O.D.)				16"			
15. Top of liner (ft.)							
16. Setting depth (ft.)				2130			
17. Number of centralizers used				20			
18. Hrs. waiting on cement before drill-out				72			
1st Slurry	19. API cement used: No. of sacks ▶			1000			
	Class ▶			H			
	Additives ▶			8% Gell			
2nd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped: Volume (cu. ft.) ▶			1890			
	Height (ft.) ▶			2130			
2nd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶			1890			
	Height (ft.) ▶			2130			
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?				Yes			

22. Remarks

LEO | SEG #
EMP # | DESC CO
MAY 15 2000
COMMENT

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Tim Sicking, Cementer — Name and title of cementer's representative

Jet Star — Cementing Company

Signature

1619 E. Hwy. 82, Gaiesville, TX 76240 — Address, City, State, Zip Code

(940) 665-1316 — Tel.: Area Code Number

2/23/00 — Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Typed or printed name of operator's representative

Title

Signature

Address, City, State, Zip Code

Tel.: Area Code Number

Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry** holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

MAY 15 2000
COMMENT

PUMPING TEST

OWNER : FRITO-LAY, INC. – WELL NO. 1
701 N. WILDWOOD
IRVING, TX

LOCATION: WEST SIDE OF PLANT SOUTH OF UNION BOWER
IRVING, DALLAS COUNTY, TEXAS

DATE : MARCH 2000 – 6"x5" ORIFICE-PUMP SET 1121'

DATE & TIME	ORIFICE	GPM	AIRLINE READING	WATER LEVEL	REMARKS
03-20-00					
06:00 AM			305	795	Start test
06:30	51	880	205	895	Cloudy
07:00	50.5	876	200	900	
07:30	50.5	876	200	900	Partly cloudy
08:00	50.5	876	200	900	
09:00	51	880	195	905	
09:30	51	880	187	913	
10:00	50.5	876	192	908	
10:30	50.5	876	192	908	
11:00	50	872	191	909	Lightly cloudy
11:30	50	872	191	909	
12:00 PM	50	872	190	910	
12:30	49	868	190	910	
01:00	49.5	868	190	910	
01:30	49	863	190	910	
02:00	48.5	859	190	910	
02:30	48	855	190	910	
03:00	48	855	190	910	
03:30	48	855	190	910	
04:00	47.5	851	190	910	
04:30	47.5	851	190	910	
05:00	47.5	851	190	910	
05:30	47.5	851	190	910	
06:00	47.5	851	190	910	
06:30	47	847	190	910	
07:00	47.5	851	190	910	Clear
07:30	45	828	195	905	
08:00	45.5	832	194	906	
08:30	45.5	832	194	906	
09:00	45.5	832	195	905	

DESC CO
MAY 1 5 2000
COMMENT

33-09-6

FRITO-LAY, INC. – WELL NO. 1
PUMPING TEST CONTINUED

DATE & TIME	ORIFICE	GPM	AIRLINE READING	WATER LEVEL	REMARKS
03-20-00					
09:30 PM	45.5	832	195	905	Clear
10:00	45	828	194	906	
10:30	44.5	824	195	905	
11:00	44.5	824	195	905	
11:30	41.5	795	198	902	
03-21-00					
12:00 AM	42	800	198	902	
12:30	42	800	198	902	
01:00	41	790	200	900	
01:30	40.5	786	200	900	
02:00	41	790	200	900	
02:30	41	790	200	900	
03:00	38	759	200	900	
03:30	39	770	200	900	
04:00	38	759	200	900	
04:30	38	759	200	900	
05:00	38	759	200	900	
05:30	37.5	754	200	900	
06:00	37	748	200	900	
06:30	36.5	743	200	900	
07:00	34.5	720	205	895	
07:30	34.5	720	205	895	
08:00	34.5	720	205	895	
08:30	34.5	720	205	895	
09:00	33.5	709	205	895	
09:30	33.5	709	205	895	
10:00	32.5	697	205	895	
10:30	28	644	210	890	
11:00	26.5	626	210	890	
11:30	26.5	626	210	890	
12:00 PM	26.5	625	220	880	
12:30	26.5	625	220	880	
01:00	24.5	614	220	880	
01:30	24.5	614	220	880	
02:00	23.5	590	220	880	
02:30	24	596	220	880	
03:00	23.5	590	220	880	
03:30	24	596	220	880	
04:00	24	596	220	880	
04:30	24	596	220	880	

DESC CO
MAY 1 5 2000
COMMENT

33-09-6

FRITO-LAY, INC. – WELL NO. 1.
PUMPING TEST CONTINUED

DATE & TIME	ORIFICE	GPM	AIRLINE READING	WATER LEVEL	REMARKS
03-21-00					
05:00 PM	24.5	614	220	880	Clear
05:30	24	596	220	880	
06:00	24	596	220	880	Stop test
RECOVERY					
06:05			260	840	
06:10			270	830	
06:15			280	820	
06:20			290	810	
06:25			300	800	
06:30			300	800	
06:40			300	800	
06:50			300	800	
07:00			305	795	
07:15			305	795	
07:30			305	795	
07:45			305	795	
08:00			305	795	
08:30			305	795	
09:00			305	795	
09:30			310	790	
10:00			310	790	End of test

J. L. MYERS COMPANY
8325 FORNEY ROAD
DALLAS, TX 75227

MAY 1 5 2000
COMMENT

33-09-6

POPE TESTING LABORATORIES, INC.

CONSULTING ANALYTICAL CHEMISTS
AND TESTING ENGINEERS

FOODS, FEEDS, DAIRY PROD.
WATER, MISCL. ANALYSES
COTTON SEED PRODUCTS
PACKING HOUSE PRODUCTS
FERTILIZERS

P. O. BOX 903
DALLAS, TEXAS
75221
(214) 742-8491

OFFICIAL CHEMISTS
WEIGHERS AND INSPECTORS
NATL. COTTONSEED PRODUCTS ASS'N.
REFEREE CHEMISTS
AMERICAN OIL CHEMISTS SOCIETY

TO J L Myers Company
Dallas, TX

Date Rec'd 5-3-00

Report of Tests on Water

Received from

Identification Marks Frito-Lay #1 Sampled 5-3-00

Coliform ---------- Negative

* * * *

LAB NO. 52761

POPE TESTING LABORATORIES, INC.

By Leon Houston

F-50—40M

SEQ #

EMP #

DESC CO

MAY 15 2000

COMMENT

33-09-6

POPE TESTING LABORATORIES, INC.

CONSULTING ANALYTICAL CHEMISTS
AND TESTING ENGINEERS

FOODS, FEEDS, DAIRY PROD.
WATER, MISCL. ANALYSES
COTTON SEED PRODUCTS
PACKING HOUSE PRODUCTS
FERTILIZERS

P. O. BOX 903
DALLAS, TEXAS
75221
(214) 742-8491

OFFICIAL CHEMISTS
WEIGHERS AND INSPECTORS
NATL. COTTONSEED PRODUCTS ASS'N.
REFEREE CHEMISTS
AMERICAN OIL CHEMISTS SOCIETY

TO J L Myers Company
Dallas, TX

Date Rec'd 4-27-00

Report of Tests on Water

Received from

Identification Marks Frito Lay Well 2300 Depth

Coliform ---------- Negative

* * * *

LAB NO. 52613

POPE TESTING LABORATORIES, INC.

By Leon Hunter

F-50—40M

EMP # | DESC CC

MAY 15 2000

COMMENT

33-09-6

POPE *Testing* LABORATORIES, Inc.

CONSULTING ANALYTICAL CHEMISTS
AND TESTING ENGINEERS

FOODS, FEEDS, DAIRY PRODS
WATER, MISCL. ANALYSES
COTTON SEED PRODUCTS
PACKING HOUSE PRODUCTS

P. O. BOX 903
DALLAS, TEXAS 75221
AC 214 742-8491
FAX 214 748-5817

OFFICIAL CHEMISTS
WEIGHERS AND INSPECTORS
NATL. COTTONSEED PRODUCTS ASS'N.
REFEREE CHEMISTS
AMERICAN OIL CHEMISTS SOCIETY

April 13, 2000

Date Rec'd: 3-23-00

To: J L Myers Company
8325 Forney Road
Dallas, TX 75227

Report of Tests on Water

Identification Marks: Frito-Lay Company, Irivng Plant Well #1 sampled 3-22-00 after pumping 36 hours

Values reported are for minerals in solution

	mg/L
Calcium	6.4
Magnesium	2.2
Iron	0.22
Manganese	0.02
Sodium	448.3
Carbonate	19.2
Bicarbonate	463.6
Sulphate	455.9
Chloride	80.6
Fluoride	2.0
Nitrate	0.0
Phenolphthalein Alkalinity as CaCO3	16.0
Total Alkalinity as CaCO3	412.0
Total Hardness as CaCO3	25.2
Total Dissolved Solids	1478.4
Total Iron	0.80
Arsenic	< 0.005
Barium	0.02
Beryllium	< 0.004
Chromium	< 0.005
Nickel	< 0.02
Selenium	< 0.04
Aluminum	0.027
Copper	< 0.005
Silver	< 0.005
Zinc	0.01
NItrate (N)	< 0.005

Continued

EMP # DESC CO

MAY 15 2000

COMMENT

33-09-6

Specific Conductance Micromhos/cm 2000
pH 8.4

* * * *

Respectfully submitted,

POPE TESTING LABORATORIES, INC.

Leon Hunter

Lab No. 41842

EMP # | DESC CO
MAY 1 5 2000
COMMENT

33-09-6

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-502

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3309502
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.820555
Latitude (degrees minutes seconds)	32° 49' 14" N
Longitude (decimal degrees)	-96.917222
Longitude (degrees minutes seconds)	096° 55' 02" W
Coordinate Source	+/- 1 Second
Aquifer Code	218TWMT - Twin Mountains Formation
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	480
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	2309
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	0/0/1953
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Plugged or Destroyed
Water Level Observation	None
Water Quality Available	Yes
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	City of Irving Well #5
Driller	Layne-Texas Co
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	5
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	10/17/1956
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 2/27/1961 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Municipal Water Agency or Public Water Supply Corp

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: Texas Department of Health **Reliability:** From well not sufficiently pumped; not filtered or preserved

Collection Remarks: storage

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		398	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		485.7	mg/L	
00910	CALCIUM (MG/L)		5	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		86	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.8	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		20	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		80	ug/L	
00920	MAGNESIUM (MG/L)		2	mg/L	
01055	MANGANESE, TOTAL (UG/L AS MN)	<	50	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.1	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.55		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		35.66		
00932	SODIUM, CALCULATED, PERCENT		97	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		373	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1904	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		370	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1077	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-506

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3309506
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.820555
Latitude (degrees minutes seconds)	32° 49' 14" N
Longitude (decimal degrees)	-96.924444
Longitude (degrees minutes seconds)	096° 55' 28" W
Coordinate Source	+/- 5 Seconds
Aquifer Code	212WDBN - Woodbine Sand
Aquifer	Woodbine
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	485
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	325
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1950
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	Historical
Water Quality Available	No
Pump	Piston
Pump Depth (feet below land surface)	
Power Type	Windmill
Annular Seal Method	
Surface Completion	
Owner	George Foster
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

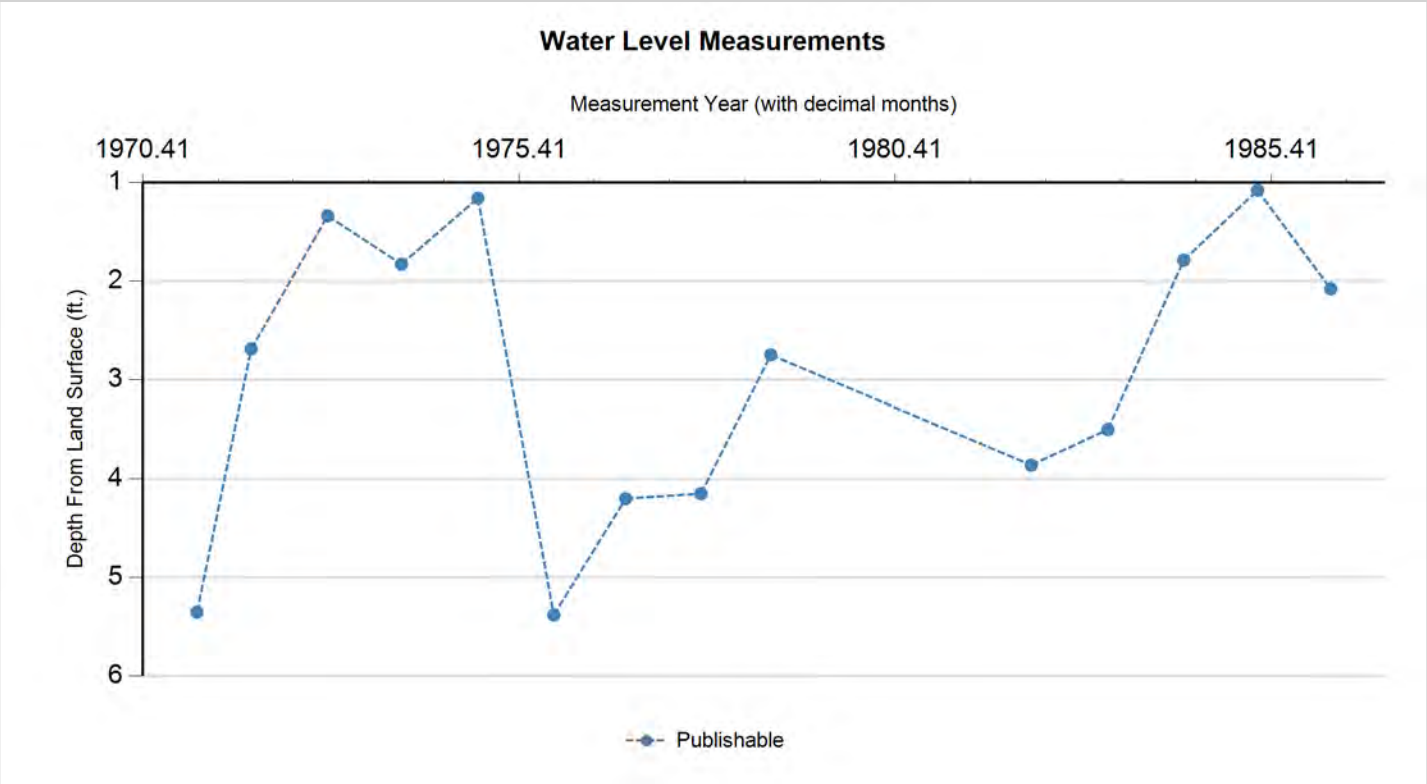
Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	2/16/1971		5.35		479.65	1	Texas Water Development Board	Steel Tape		
P	11/9/1971		2.69	(2.66)	482.31	1	Texas Water Development Board	Steel Tape		
P	11/15/1972		1.34	(1.35)	483.66	1	Texas Water Development Board	Steel Tape		
P	11/8/1973		1.83	0.49	483.17	1	Texas Water Development Board	Steel Tape		
P	11/14/1974		1.16	(0.67)	483.84	1	Texas Water Development Board	Steel Tape		
P	11/17/1975		5.38	4.22	479.62	1	Texas Water Development Board	Steel Tape		
P	11/1/1976		4.2	(1.18)	480.8	1	Texas Water Development Board	Steel Tape		
P	11/1/1977		4.15	(0.05)	480.85	1	Texas Water Development Board	Steel Tape		
P	10/5/1978		2.75	(1.40)	482.25	1	Texas Water Development Board	Steel Tape		
P	3/18/1982		3.86	1.11	481.14	1	Texas Water Development Board	Steel Tape		
P	3/25/1983		3.5	(0.36)	481.5	1	Texas Water Development Board	Steel Tape		
P	3/28/1984		1.79	(1.71)	483.21	1	Texas Water Development Board	Steel Tape		
P	3/21/1985		1.08	(0.71)	483.92	1	Texas Water Development Board	Steel Tape		
P	3/11/1986		2.08	1.00	482.92	1	Texas Water Development Board	Steel Tape		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis - No Data Available

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Send original copy by certified mail to the Texas Water Development Board P. O. Box 12386 Austin, Texas 78711

State of Texas

WATER WELL REPORT

For TWDB use only
Well No. 33-09-501
Located on map yes
Received: 71
dc

1) OWNER:
Person having well drilled Lucy C. McGee (Name) Address 700 S. Delaware (Street or RFD) Irving (City) Texas (State)

Landowner Same (Name) Address (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Dallas in Irving City limits miles in (N.E., S.W., etc.) direction from (Town)

Locate by sketch map showing landmarks, roads, creeks, hiway number, etc.*

North

(Use reverse side if necessary)

or

Give legal location with distances and directions from adjacent sections or survey lines.

Labor League

Block Survey

Abstract No.

(NW¼ NE¼ SW¼ SE¼) of Section

3) TYPE OF WORK (Check):
New Well Deepening
Reconditioning Plugging

4) PROPOSED USE (Check):
Domestic Industrial Municipal
Irrigation ✓ Test Well Other

5) TYPE OF WELL (Check):
Rotary ✓ Driven Dug
Cable Jetted Bored

6) WELL LOG:
Diameter of hole 6 1/4 in. Depth drilled 32' ft. Depth of completed well 32' ft. Date drilled June 71

All measurements made from ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0	20	Yellow Clay
20	29	Sand & Gravel
29	32	Blue Shale

(Use reverse side if necessary)

9) Casing:
Type: Old New ✓ Steel Plastic Other
Cemented from ft. to ft.

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Gage

10) SCREEN:
Type
Perforated Slotted

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Slot Size

7) COMPLETION (Check):
Straight wall Gravel packed Other
Under reamed Open Hole

8) WATER LEVEL:
Static level ft. below land surface Date
Artesian pressure lbs. per square inch Date
Depth to pump bowls, cylinder, jet, etc., ft. below land surface.

11) WELL TESTS:
Was a pump test made? Yes No If yes, by whom?
Yield: gpm with ft. drawdown after hrs.
Bailer test gpm with ft. drawdown after hrs.
Artesian flow gpm
Temperature of water

12) WATER QUALITY:
Was a chemical analysis made? Yes No
Did any strata contain undesirable water? Yes No
Type of water? depth of strata

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME (Type or Print) Water Well Drillers Registration No.

ADDRESS (Street or RFD) (City) (State)

(Signed) (Water Well Driller) (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

TWDBE-GW-53

4811300276

Send original copy by certified mail to: **Texas Water Commission, P.O. Box 13087, Austin, Texas 78711** *Please use black ink.*

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

State of Texas WELL REPORT

Texas Water Well Drillers Board
P.O. Box 13087
Austin, Texas 78711

1) **OWNER** Andersen Consulting (Name) **ADDRESS** 1100 Empire Central Place, Dallas, TX (Street or RFD) (City) (State) (Zip)

2) **LOCATION OF WELL:** County Dallas , _____ miles in _____ (NE, SW, etc.) direction from Dallas (Town)

Driller **must** complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ **LEGAL DESCRIPTION:**

Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____

Distance and direction from two intersecting section or survey lines _____

☒ **SEE ATTACHED MAP**

3) **TYPE OF WORK (Check):** ☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) **PROPOSED USE (Check):** ☐ Domestic ☒ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ De-Watering

5) **DRILLING METHOD (Check):** ☐ Driven ☒ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored ☐ Air Rotary ☐ Cable Tool ☐ Other _____

6) **WELL LOG:**

Date Drilling:

Started 11/ 1993

Completed 2/ 1993

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
	Surface	

RECEIVED FEB 28 1994 TEXAS WATER COMMISSION

7) **BOREHOLE COMPLETION:** ☐ Open Hole ☐ Straight Wall ☒ Underreamed ☒ Gravel Packed ☐ Other _____

If Gravel Packed give interval . . . from _____ ft. to _____ ft.

From (ft.)	To (ft.)	Description and color of formation material
		see attached

(Use reverse side if necessary)

8) **CASING, BLANK PIPE, AND WELL SCREEN DATA:**

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casting Screen
		see attached			

9) **CEMENTING DATA** [Rule 287.44(1)]

Cemented from _____ ft. to _____ ft. No. of Sacks Used _____

_____ ft. to _____ ft. No. of Sacks Used _____

Method used _____

Cemented by Halliburton

10) **SURFACE COMPLETION**

☒ Specified Surface Slab Installed [Rule 287.44(2)(A)]

☐ Specified Steel Sleeve Installed [Rule 287.44(3)(A)]

☐ Pitless Adapter Used [Rule 287.44(3)(B)]

☐ Approved Alternative Procedure Used [Rule 287.71]

13) **TYPE PUMP:** ☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder ☐ Other _____

Depth to pump bowls, cylinder, jet, etc., _____ ft.

14) **WELL TESTS:**

Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated

Yield: _____ gpm with _____ ft. drawdown after _____ hrs.

11) **WATER LEVEL:**

Static level _____ ft. below land surface Date _____

Artesian flow _____ gpm. Date _____

15) **WATER QUALITY:**

Did you knowingly penetrate any strata which contained undesirable constituents?

☐ Yes ☒ No If yes, submit "REPORT OF UNDESIRABLE WATER"

Type of water? _____ Depth of strata _____

Was a chemical analysis made? ☐ Yes ☐ No

12) **PACKERS:** Type Depth

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME J. L. Myers Co. (Type or print) **WELL DRILLER'S LICENSE NO.** 265

ADDRESS 8325 Forney Road (Street or RFD) Dallas (City) TX (State) 75227 (Zip)

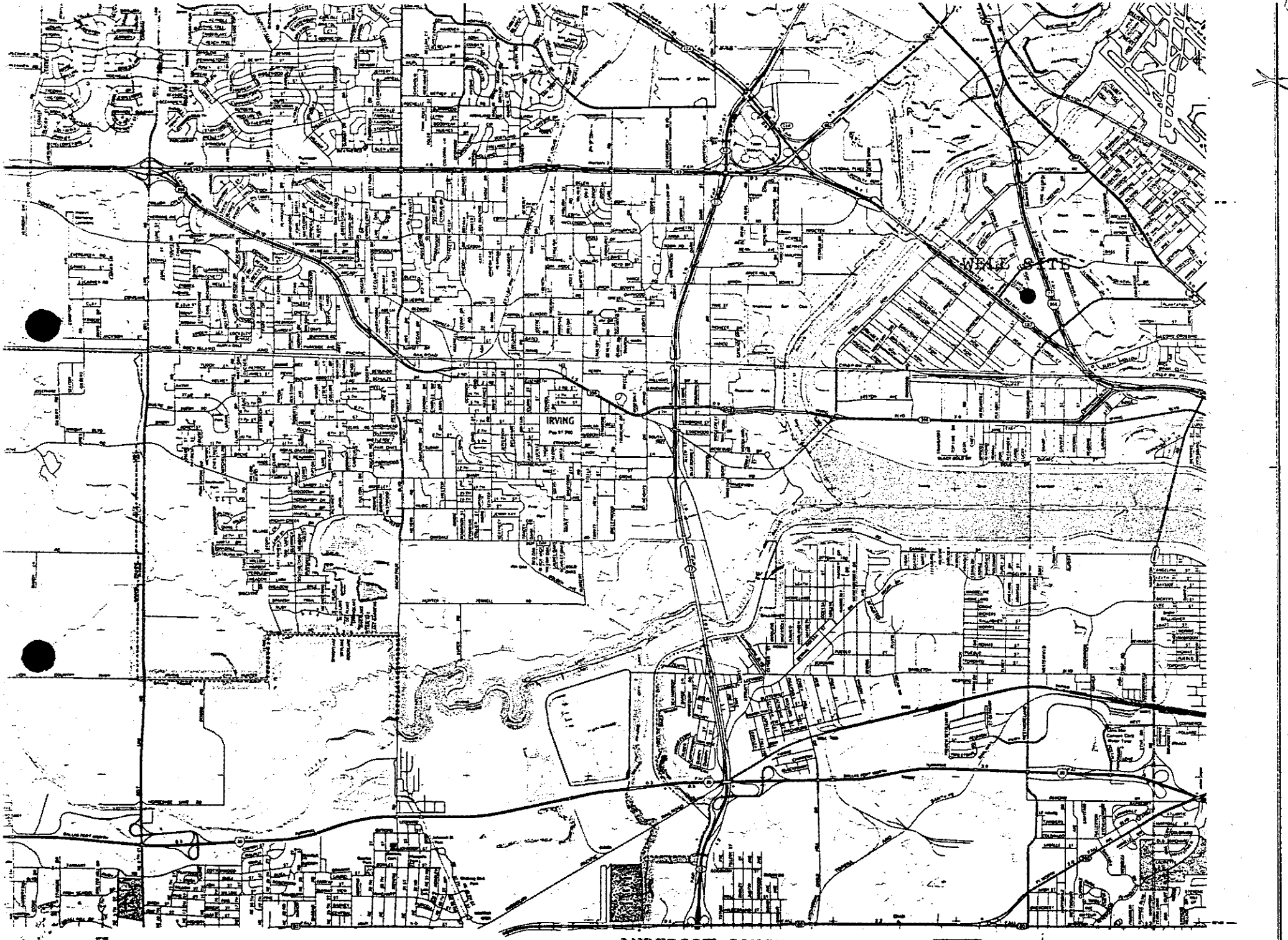
(Signed) Joe W. Dillard (Licensed Well Driller) **(Signed)** _____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only: Well No. 33-10-4 Located on map _____

WWD-012 (Rev. 05-18-90)

TEXAS WATER COMMISSION COPY



ANDERSON CONSULTING
WELL NO. 1

DRILLER'S LOG

OWNER : ANDERSEN CONSULTING
WELL NO. 1

LOCATION: 1100 EMPIRE CENTRAL PLACE
DALLAS, TX

DATE : DECEMBER 1993

DRILLER : D. CONGER

DEPTH OF STRATA From	To	EACH STRATUM Feet	DESCRIPTION
0	30	30	Clay
30	45	15	Blue clay
45	55	10	Gravel
55	310	255	Blue clay
310	345	35	Sand
345	400	55	Clay
400	420	20	Broken sand
420	460	40	Clay
460	570	110	Clay and sand
570	610	40	Tight brown clay
610	660	50	Broken sand
660	740	80	Brown clay
740	810	70	Clay
810	850	40	Broken lime
850	890	40	Lime and clay
890	990	100	Broken lime
990	1050	60	Lime
1050	1090	40	Broken lime
1090	1120	30	Shale
1120	1202	82	Lime
1202	1240	38	Clay and shale

J. L. MYERS COMPANY
8325 FORNEY ROAD
DALLAS, TX 75227

MATERIAL SETTING

OWNER : ANDERSEN CONSULTING
WELL NO. 1

LOCATION: 1100 EMPIRE CENTRAL PLACE
DALLAS, TX

DATE : DECEMBER 1993

FROM	TO	AMOUNT	DESCRIPTION
0	22	22	13-3/8"OD surface casing, cemented in place
+2	1218	1220	7"OD 23#/ft T&C casing, with centralizers and float collar, in 11" hole. Cemented by Halliburton with 290 sacks Premium and 8% gel.
1130	1228	98	3-1/2"OD galvanized blank liner with R&L coupling
1228	1240	12	3-1/2"OD SS wire wrapped WESCO UnderBar Plus screen on galvanized pipe
1240	1258	18	3-1/2" blank with centralizer
1258	1270	12	3-1/2" screen
1270	1292	22	3-1/2" blank with centrlaizer
1292	1310	18	3-1/2" screen
1310	1318	8	3-1/2" blank
1318	1336	18	3-1/2" screen
1336	1346	10	3-1/2" blank with centralizer
1346	1360	14	3-1/2" screen
1360	1366	6	3-1/2" blank
1218	1366	148	14" underreamed hole packed with TMC 16x30 gravel

J. L. MYERS COMPANY
8325 FORNEY ROAD
DALLAS, TX 75227

X

Cementer: Fill in shaded areas.
Operator: Fill in other items.

Form W-15
Cementing Report
Rev. 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1. Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
J L Myers Company			Dallas

5. Field Name (Wildcat or exactly as shown on RRC records)	6. API No.	7. Drilling Permit No.
	42-	

8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No.
Anderson Consulting			1

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date	12-1-93					
13. *Drilled hole size						
*Est. % wash or hole enlargement						
14. Size of casing (in. O.D.)						
15. Top of liner (ft.)						
16. Setting depth (ft.)						
17. Number of centralizers used						
18. Hrs. waiting on cement before drill-out						
1st Slurry — 19. API cement used: No. of sacks ▶	290					
Class ▶	Prem					
Additives ▶	remarks					
2nd Slurry — No. of sacks ▶						
Class ▶						
Additives ▶						
3rd Slurry — No. of sacks ▶						
Class ▶						
Additives ▶						
1st — 20. Slurry pumped: Volume (cu. ft.) ▶	574.2					
Height (ft.) ▶	1391.23					
2nd — Volume (cu. ft.) ▶						
Height (ft.) ▶						
3rd — Volume (cu. ft.) ▶						
Height (ft.) ▶						
Total — Volume (cu. ft.) ▶	574.2					
Height (ft.) ▶	1391.23					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?	YES					

22. Remarks

8% Gel, 5% Salt

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Name and title of cementer's representative	Cementing Company	Signature
Jerry Mower Multi Serv Operator	Halliburton Energy Serv	Jerry Mower

Address	City, State, Zip Code	Tel.: Area Code Number	Date: mo. day yr.
P. O. Box 207	Jacksboro Texas 76458	800 354 9124	12 01 93

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Typed or printed name of operator's representative	Title	Signature

Address	City, State, Zip Code	Tel.: Area Code Number	Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry** holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

X

PUMPING TEST

OWNER : ANDERSEN CONSULTING
WELL NO. 1

LOCATION: 1100 EMPIRE CENTRAL PLACE
DALLAS, TX

DATE : JANUARY 1994 - 50HP 16MB BOWL; PUMP SET 690'; SL 400

DATE & TIME	ORIFICE	GPM	AIRLINE READING	WATER LEVEL	REMARKS
01-04-94					
07:00 AM	15	100	290	400	Cloudy - 5 min
08:00	15	100	175	515	Clear
09:00	15	100	164	526	
10:00	15	100	163	527	
11:00	15	100	160	530	
12:00 PM	15	100	155	535	
01:00	15	100	152	538	
02:00	15	100	150	540	
03:00	15	100	147	543	
04:00	15	100	145	545	
05:00	15	100	142	548	
06:00	15	100	139	551	
07:00	15	100	139	551	
08:00	15	100	138	552	
09:00	15	100	138	552	
10:00	15	100	137	553	
11:00	15	100	136	554	
01-05-94					
12:00 AM	15	100	136	554	
01:00	15	100	136	554	
02:00	15	100	136	554	
03:00	15	100	136	554	
04:00	15	100	136	554	
05:00	15	100	135	555	
06:00	15	100	134	556	
07:00	15	100	134	556	
RECOVERY					
07:05			250	440	
07:10			253	437	
07:15			256	434	
07:20			259	431	
07:25			262	428	
07:30			265	425	
07:45			269	421	
08:00			271	419	
08:15			275	415	

X

ANDERSEN CONSULTING, WELL NO. 1
PUMPING TEST CONTINUED

DATE & TIME	ORIFICE	GPM	AIRLINE READING	WATER LEVEL	REMARKS
01-05-94					
RECOVERY					
08:30 AM			278	412	
08:45			280	410	
09:00			282	408	
09:15			284	406	
09:30			286	404	
09:45			288	402	
10:00			290	400	
10:15			291	399	
10:30			291	399	
10:45			292	398	
11:00			293	397	

J. L. MYERS COMPANY
8325 FORNEY ROAD
DALLAS, TX 75227

X

POPE TESTING LABORATORIES, INC.

CONSULTING ANALYTICAL CHEMISTS
AND TESTING ENGINEERS

FOODS, FEEDS, DAIRY PROD.
WATER, MISCL. ANALYSES
COTTON SEED PRODUCTS
PACKING HOUSE PRODUCTS
FERTILIZERS

P. O. BOX 903
DALLAS, TEXAS
75221
(214) 742-8491

OFFICIAL CHEMISTS
WEIGHERS AND INSPECTORS
NATL. COTTONSEED PRODUCTS ASS'N.
REFEREE CHEMISTS
AMERICAN OIL CHEMISTS SOCIETY

TO J L Myers Company
Dallas, TX

Date Rec'd 2-3-94

Report of Tests on Water

Received from

Identification Marks Anderson Consulting Well No 1 1-5-94

Turbidity ---------- 0.95 NTU

* * * *

LAB NO. 59430

POPE TESTING LABORATORIES, INC.

By Leon Hunter

F-50—40M

POPE *Testing* LABORATORIES, Inc.

CONSULTING ANALYTICAL CHEMISTS
AND TESTING ENGINEERS

P. O. BOX 903
DALLAS, TEXAS 75221
(214) 742-8491

FOODS, FEEDS, DAIRY PRODS.
WATER, MISCL. ANALYSES
COTTON SEED PRODUCTS
PACKING HOUSE PRODUCTS
FERTILIZERS

OFFICIAL CHEMISTS
WEIGHERS AND INSPECTORS
NATL. COTTONSEED PRODUCTS ASS'N.
REFEREE CHEMISTS
AMERICAN OIL CHEMISTS SOCIETY

Date Rec'd 1-5-94

To: J.L. Myers Company
Dallas, TX

Report of Tests on Water

Identification Marks: Andersen Consulting
Well #1 Sampled 1-5-94 after pumping 100 gpm for 24 hrs.
1321-93 Water Level 556 7 AM

Values reported are for minerals in solution

	Parts Per Million
Calcium	2.4
Magnesium	0.4
Iron	0.06
Manganese	0.0
Sodium	309.7
Carbonate	28.8
Bicarbonate	478.2
Sulphate	190.1
Chloride	30.7
Fluoride	1.5
Nitrate	0.0
Phenolphthalein Alkalinity as $CaCO_3$	24.0
Total Alkalinity as $CaCO_3$	440.0
Total Hardness as $CaCO_3$	7.8
Dissolved Residue (TS) Calculated	1041.9
Specific Conductance Micromhos/cm 1260	
pH 8.5	
Total Iron	0.12

POPE TESTING LABORATORIES, Inc.

By Leon Hunter

Lab. No. 58001

F-158-1M

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-10-406

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3310406
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.8211111
Latitude (degrees minutes seconds)	32° 49' 16" N
Longitude (decimal degrees)	-96.8730556
Longitude (degrees minutes seconds)	096° 52' 23" W
Coordinate Source	+/- 1 Second
Aquifer Code	218PLXY - Paluxy Sand
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	412
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	1366
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	12/0/1993
Drilling Method	Mud (Hydraulic) Rotary
Borehole Completion	Gravel Pack w/Screen

Well Type	Withdrawal of Water
Well Use	Plugged or Destroyed
Water Level Observation	None
Water Quality Available	Yes
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Andersen Consulting
Driller	J. L. Myers Co.
Other Data Available	Drillers Log; Electric Log
Well Report Tracking Number	
Plugging Report Tracking Number	172307
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	10/13/1994
Last Update Date	3/4/2020

Remarks	

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
7	Blank				0	1218
4	Blank				1130	1228
4	Screen				1228	1240
4	Blank				1240	1258
4	Screen				1258	1270
4	Blank				1270	1292
4	Screen				1292	1310
4	Blank				1310	1318
4	Screen				1318	1336
4	Blank				1336	1346
4	Screen				1346	1360
4	Blank				1360	1366
7	Open Hole				1366	1406

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 1/5/1994 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Registered Water Well Driller

Sampled Aquifer: Paluxy Sand

Analyzed Lab: Pope Testing Lab **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		24	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		440	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		478.38	mg/L	
00910	CALCIUM (MG/L)		2.4	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		28.8	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		30.7	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.5	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		7	mg/L as CACO3	
01046	IRON, DISSOLVED (UG/L AS FE)		60	ug/L	
01045	IRON, TOTAL (UG/L AS FE)		120	ug/L	
00920	MAGNESIUM (MG/L)		0.4	mg/L	
01056	MANGANESE, DISSOLVED (UG/L AS MN)	<	50	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		0	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.5	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.65		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		48.76		
00932	SODIUM, CALCULATED, PERCENT		98	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		309.7	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1260	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		190.1	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		798	mg/L	

Water Quality Analysis

Sample Date: 10/13/1994 **Sample Time:** 1130 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Paluxy Sand

Analyzed Lab: Texas Department of Health **Reliability:** Sampled using TWDB protocols

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
39086	ALKALINITY FIELD DISSOLVED AS CACO3		446	mg/L as CACO3	
82244	ALKALINITY PHENOLPHTHALEIN FIELD DATA (MG/L)		18	mg/L	
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		17	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		446	mg/L as CACO3	
01503	ALPHA, DISSOLVED (PC/L)	<	4.5	PC/L	
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	<	20	ug/L	
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	<	2	ug/L	
01000	ARSENIC, DISSOLVED (UG/L AS AS)	<	2	ug/L	
01005	BARIUM, DISSOLVED (UG/L AS BA)		3.4	ug/L	
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	<	2	ug/L	
03503	BETA, DISSOLVED (PC/L)	<	4	PC/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		502.78	mg/L	
01020	BORON, DISSOLVED (UG/L AS B)		620	ug/L	
71870	BROMIDE, DISSOLVED, (MG/L AS BR)		0.27	mg/L	
01025	CADMIUM, DISSOLVED (UG/L AS CD)	<	0.5	ug/L	
00915	CALCIUM, DISSOLVED (MG/L AS CA)		1.7	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		20.4	mg/L	
00941	CHLORIDE, DISSOLVED (MG/L AS CL)		22	mg/L	
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	<	10	ug/L	
01035	COBALT, DISSOLVED (UG/L AS CO)	<	10	ug/L	
01040	COPPER, DISSOLVED (UG/L AS CU)	<	4	ug/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.58	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		6	mg/L as CACO3	
01046	IRON, DISSOLVED (UG/L AS FE)		17	ug/L	
01049	LEAD, DISSOLVED (UG/L AS PB)	<	5	ug/L	
01130	LITHIUM, DISSOLVED (UG/L AS LI)		28	ug/L	
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		0.4	mg/L	
01056	MANGANESE, DISSOLVED (UG/L AS MN)	<	1	ug/L	
71890	MERCURY, DISSOLVED (UG/L AS HG)	<	0.13	ug/L	
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	<	20	ug/L	
01065	NICKEL, DISSOLVED (UG/L AS NI)	<	10	ug/L	

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)		0.01	mg/L as N	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		0.04	mg/L as NO3	
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	<	0.01	mg/L as N	
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)		0.62	mg/L as N	
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)		0.9	mg/L as N	
00090	OXIDATION REDUCTION POTENTIAL (ORP), MILLIVOLTS		-6.7	MV	
00400	PH (STANDARD UNITS), FIELD		8.51	SU	
00935	POTASSIUM, DISSOLVED (MG/L AS K)		2	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.8		
01145	SELENIUM, DISSOLVED (UG/L AS SE)	<	4	ug/L	
00955	SILICA, DISSOLVED (MG/L AS SI02)		15	mg/L as SIO2	
01075	SILVER, DISSOLVED (UG/L AS AG)	<	10	ug/L	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		53.6		
00932	SODIUM, CALCULATED, PERCENT		99	PCT	
00930	SODIUM, DISSOLVED (MG/L AS NA)		299	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1208	MICR	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		120	ug/L	
00946	SULFATE, DISSOLVED (MG/L AS SO4)		189	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		31.6	C	
01057	THALLIUM, DISSOLVED (UG/L AS TL)	<	2	ug/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		798	mg/L	
01085	VANADIUM, DISSOLVED (UG/L AS V)	<	10	ug/L	
01090	ZINC, DISSOLVED (UG/L AS ZN)	<	10	ug/L	

Water Quality Analysis

Sample Date: 7/15/1999 **Sample Time:** 1130 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Paluxy Sand

Analyzed Lab: LCRA - Lower Colorado River Authority **Reliability:** Sampled using TWDB protocols

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
39086	ALKALINITY FIELD DISSOLVED AS CACO3		433	mg/L as CACO3	
82244	ALKALINITY PHENOLPHTHALEIN FIELD DATA (MG/L)		11	mg/L	
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		21	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		417	mg/L as CACO3	
01106	ALUMINUM, DISSOLVED (UG/L AS AL)		6.4	ug/L	
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	<	1	ug/L	
01000	ARSENIC, DISSOLVED (UG/L AS AS)	<	2	ug/L	
01005	BARIUM, DISSOLVED (UG/L AS BA)		7.5	ug/L	
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1	ug/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		457.63	mg/L	
01020	BORON, DISSOLVED (UG/L AS B)		622	ug/L	
71870	BROMIDE, DISSOLVED, (MG/L AS BR)		0.13	mg/L	
01025	CADMIUM, DISSOLVED (UG/L AS CD)	<	1	ug/L	
00915	CALCIUM, DISSOLVED (MG/L AS CA)		1.23	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		25.2	mg/L	
00941	CHLORIDE, DISSOLVED (MG/L AS CL)		18.9	mg/L	
01030	CHROMIUM, DISSOLVED (UG/L AS CR)		3.6	ug/L	
01035	COBALT, DISSOLVED (UG/L AS CO)	<	1	ug/L	
01040	COPPER, DISSOLVED (UG/L AS CU)	<	2	ug/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.05	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		5	mg/L as CACO3	
01046	IRON, DISSOLVED (UG/L AS FE)	<	50	ug/L	
01049	LEAD, DISSOLVED (UG/L AS PB)	<	1	ug/L	
01130	LITHIUM, DISSOLVED (UG/L AS LI)		47.3	ug/L	
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		0.58	mg/L	
01056	MANGANESE, DISSOLVED (UG/L AS MN)		1.1	ug/L	
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)		1.7	ug/L	
01065	NICKEL, DISSOLVED (UG/L AS NI)	<	1	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		0.13	mg/L as NO3	

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00631	NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N)		0.03	mg/L as N	
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)		0.653	mg/L as N	
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)		0.706	mg/L as N	
00090	OXIDATION REDUCTION POTENTIAL (ORP), MILLIVOLTS		197.2	MV	
00400	PH (STANDARD UNITS), FIELD		8.7	SU	
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	<	0.04	mg/L as P	
00935	POTASSIUM, DISSOLVED (MG/L AS K)		1.18	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.23		
01145	SELENIUM, DISSOLVED (UG/L AS SE)	<	4	ug/L	
00955	SILICA, DISSOLVED (MG/L AS SI02)		15.2	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		52.89		
00932	SODIUM, CALCULATED, PERCENT		99	PCT	
00930	SODIUM, DISSOLVED (MG/L AS NA)		284	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1216	MICR	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		115	ug/L	
00946	SULFATE, DISSOLVED (MG/L AS SO4)		180	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		32.6	C	
01057	THALLIUM, DISSOLVED (UG/L AS TL)	<	1	ug/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		752	mg/L	
01085	VANADIUM, DISSOLVED (UG/L AS V)		1	ug/L	
01090	ZINC, DISSOLVED (UG/L AS ZN)	<	2	ug/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.

Send original copy by certified mail to the Texas Department of Water Resources P. O. Box 13087 Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

For TDWR use only
Well No. 33 - 09 - SY
Located on map yes
Received: RWB

1) OWNER W. H. Covington (Name) Address 309 W 16th (Street or RFD) Irving Tx (City) 75060 (State) (Zip)

2) LOCATION OF WELL: County Dallas, 1 miles in S (N.E., S.W., etc.) direction from Irving (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

☒ See attached map.

3) TYPE OF WORK (Check): ☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check): ☒ Domestic ☐ Industrial ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check): ☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored ☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:

Date drilled 4-1-81

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
6 3/4	Surface	57

From (ft.)	To (ft.)	Description and color of formation material
0	5	Top Soil
5	10	Clay & Gravel
10	45	Sand & Gravel
45	52	Gravel & Shale
52	57	Shale

(Use reverse side if necessary)

7) BOREHOLE COMPLETION: ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☒ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from 10 ft. to 57 ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfr., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
4	N	P V C	0	32	sc40
4	N	Slotted	32	57	1/16

CEMENTING DATA
Cemented from 0 ft. to 10 ft.
Method used Gravity
Cemented by C. K. Curtiss (Company or Individual)

9) WATER LEVEL:
Static level _____ ft. below land surface Date _____
Artesian flow _____ gpm. Date _____

10) PACKERS: Type Depth

11) TYPE PUMP: ☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder ☐ Other _____
Depth to pump bowls, cylinder, jet, etc., _____ ft.

12) WELL TESTS: ☐ Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.

13) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☒ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME C. K. Curtiss (Type or Print) Water Well Drillers Registration No. 1875

ADDRESS 520 North Haskell (Street or RFD) Dallas (City) Texas (State) 75246 (Zip)

(Signed) C K Curtiss (Water Well Driller) Kentry Well Drilling (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

TDWR-0392 (Rev. 1-12-79)

DEPARTMENT OF WATER RESOURCES COPY

4811300280

HAVING WELLS DRILLED CONCERNING
PRIVILEGE OF CONFIDENTIALITY

The Water Well Drillers Board and the Department of Water Resources are concerned that some persons having water wells drilled may not be aware of the confidentiality privilege provision of Section 5 of the Water Well Drillers Act. Section 5, the Reporting of Well Logs, reads as follows:

> "Every registered water well driller drilling, deepening, or otherwise altering a water well within this State shall make and keep, or cause to be made and kept, a legible and accurate well log, and within sixty (60) days from the completion or cessation of drilling, deepening or otherwise altering

logs of
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RECEIVED
JUN 17 1982
CR/TDWR

1981
OF
SOURCES

5R

Send original copy by certified mail to the Texas Water Development Board
P. O. Box 12386
Austin, Texas 78711

State of Texas

WATER WELL REPORT

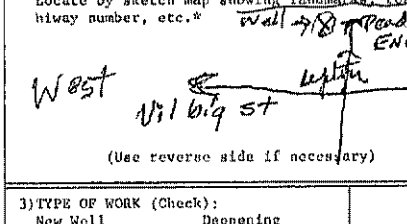
For TWDB use only
Well No. 33-09-58
Located on map yes
Received: 1/1

1) OWNER:
Person having well drilled T. O. Pritchett (Name) Address 1501 Upton (Street or RFD) Irving (City) Texas (State)

Landowner Same (Name) Address — (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County DALLAS, _____ miles in _____ (N.E., S.W., etc.) direction from _____ (Town)

Locate by sketch map showing landmarks, roads, creeks or hiway number, etc.* Shady Oaks



(Use reverse side if necessary)

Give legal location with distances and directions from adjacent sections or survey lines.

Labor _____ League _____

Block _____ Survey _____

Abstract No. _____

(NW¼ NE¼ SW¼ SE¼) of Section _____

3) TYPE OF WORK (Check): New Well, Deepening, Reconditioning, Plugging

4) PROPOSED USE (Check): Domestic, Industrial, Municipal, Irrigation, Test Well, Other Good

5) TYPE OF WELL (Check): Rotary, Driven, Dug, Cable, Jetted, Bored

6) WELL LOG:
Diameter of hole 6 3/4 in. Depth drilled 50' ft. Depth of completed well 50' ft. Date drilled May 70

All measurements made from 0 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0	42	Yellow Clay
42	48	Sand & Gravel
48	50	Blue Shale

(Use reverse side if necessary)

9) Casing:
Type: Old, New ✓, Steel ✓, Plastic, Other
Cemented from _____ ft. to _____ ft.

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Gage
4½	0	50'	9 ft

10) SCREEN:
Type _____
Perforated, Slotted ✓

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Slot Size

7) COMPLETION (Check):
Straight wall, Gravel packed ✓, Other
Under reamed, Open Hole

8) WATER LEVEL:
Static level _____ ft. below land surface Date _____
Artesian pressure _____ lbs. per square inch Date _____
Depth to pump bowls, cylinder, jet, etc., _____ ft. below land surface.

11) WELL TESTS:
Was a pump test made? Yes No If yes, by whom? _____
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.
Bailor test _____ gpm with _____ ft. drawdown after _____ hrs.
Artesian flow _____ gpm
Temperature of water _____

12) WATER QUALITY:
Was a chemical analysis made? Yes No
Did any strata contain undesirable water? Yes No
Type of water? _____ depth of strata _____

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME A. B. Hoipkemeier (Type or Print) Water Well Drillers Registration No. 112

ADDRESS P. O. Box 516 (Street or RFD) Irving (City) Texas (State) 75060

(Signed) A. B. Hoipkemeier (Water Well Driller) A. B. Hoipkemeier Drlng Co. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

TWDBE-GW-53

U811200777

69

Send original copy by certified mail to the Texas Water Development Board P. O. Box 12386 Austin, Texas 78711

State of Texas

WATER WELL REPORT

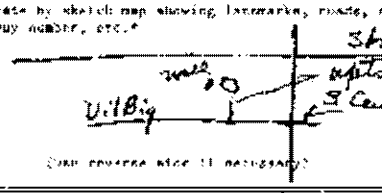
For TWDB use only
Well No. 32-16-65
Entered on map
Received
dt

1) OWNER:
Person having well drilled D. J. Richter (Name) Address 1508 Upton (Street or RFD) Irving (City) Texas (State)

Landowner SAME (Name) Address (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Dallas, ____ miles on (N.E., S.W., etc.) ____ direction from (Town)

Locate by sketch map showing landmarks, roads, creeks, highway number, etc.*



(Use reverse side if necessary)

Give legal location with distances and directions from adjacent sections or survey lines.

Labor ____ League ____
Block ____ Survey ____
Abstract No. ____
(NW, NE, SW, SE) of Section ____

3) TYPE OF WORK (Check): New Well, Deepening, Reconditioning, Plugging

4) PROPOSED USE (Check): Domestic, Industrial, Municipal, Irrigation, Test Well, Other

5) TYPE OF WELL (Check): Rotary, Driven, Dug, Cable, Jetted, Bored

6) WELL LOG:
Diameter of hole 6 1/4 in. Depth drilled 45' ft. Depth of completed well 45' ft. Date drilled 8-70
All measurements made from 0 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0'	2'	Surface soil
2'	32'	Clay
32'	41'	Sand
41'	45'	Gravel T.D.

7) Casing:
Type: Old, New, Steel, Plastic, Other
Connected from ____ ft. to ____ ft.

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Gage

8) Screen:
Type ____
Perforated ____ Slotted ____
Diameter (inches) ____ Setting (from (ft.)) ____ (to (ft.)) ____ Slot Size ____

(Use reverse side if necessary)

9) COMPLETION (Check):
Straight wall, Gravel packed, Other
Under reamed, Open Hole

10) WELL TESTS:
Was a pump test made? Yes No If yes, by whom?
Yield: ____ gpm with ____ ft. drawdown after ____ hrs.
Bailer test ____ gpm with ____ ft. drawdown after ____ hrs.
Artesian flow ____ gpm
Temperature of water ____

11) WATER LEVEL:
Static level ____ ft. below land surface Date ____
Artesian pressure ____ lbs. per square inch Date ____
Depth to pump bowls, cylinder, jet, etc. ____ ft. below land surface.

12) WATER QUALITY:
Was a chemical analysis made? Yes No
Did any strata contain undesirable water? Yes No
Type of water? ____ Depth of strata ____

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME A. B. Hoipkemeier Drilling (Type or Print) Water Well Drillers Registration No. 1?

ADDRESS P.O. Box 576 (Street or RFD) Irving (City) Texas (State)

(Signed) A. B. Hoipkemeier (Water Well Driller) A. B. Hoipkemeier Co. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

TWDB-WR-53

ATTENTION OWNER: *Confidentially Privilege Notice on Reverse Side*

State of Texas WELL REPORT

2,7,8,9,10,13,14.

Texas Water Well Drillers Board
P.O. Box 13087
Austin, Texas 78711

1) OWNER DON RICHTER (Name) ADDRESS 1508 UPTON PLACE, IRVING, TX. 75060 (Street or RFD) (City) (State) (Zip)

2) LOCATION OF WELL: County DALLAS, 3 miles in 5 (NE, SW, etc.) direction from IRVING (Town)

Driller must complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ LEGAL DESCRIPTION:

Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____

Distance and direction from two intersecting section or survey lines _____

☑ SEE ATTACHED MAP

3) TYPE OF WORK (Check): ☑ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check): ☐ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☑ Irrigation ☐ Test Well ☐ Injection ☐ De-Watering

5) DRILLING METHOD (Check): ☑ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored ☐ Driven ☐ Air Rotary ☐ Cable Tool ☐ Other _____

6) WELL LOG:

Date Drilling: Started JUNE 28 1993 Completed JUNE 28 1993

DIAMETER OF HOLE		
Dia. (in.)	From (ft.)	To (ft.)
7 1/4	Surface	60

7) BOREHOLE COMPLETION: ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☑ Gravel Packed ☐ Other _____

If Gravel Packed give interval ... from 20 ft. to 60 ft.

From (ft.)	To (ft.)	Description and color of formation material
0	2	TOP SOIL
2	6	RED SANDSTONE
6	18	RED SAND
18	25	SANDSTONE/SHALE
25	40	SAND & GRAVEL
40	60	GREY SHALE

(Use reverse side if necessary)

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
4	N	PVC BLANK	0	20	220 PSI
4	N	PVC PERF.	20	50	.020
4	N	PVC BLANK	50	60	220 PSI

9) CEMENTING DATA [Rule 287.44(1)]

Cemented from 0 ft. to 20 ft. No. of Sacks Used 8

ft. to ft. No. of Sacks Used

Method used HAND MIXED

Cemented by MINDERMAN'S WELL SERVICE

10) SURFACE COMPLETION

☐ Specified Surface Slab Installed [Rule 287.44(2)(A)]

☐ Pitless Adapter Used [Rule 287.44(3)(B)]

☑ Approved Alternative Procedure Used [Rule 287.71]

11) WATER LEVEL:

Static level 70 ft. below land surface Date 6-28-93

Artesian flow _____ gpm. Date _____

12) PACKERS: Type N/A Depth

13) TYPE PUMP: ☐ Turbine ☐ Jet ☑ Submersible ☐ Cylinder ☐ Other _____

Depth to pump bowls, cylinder, jet, etc., 50 ft.

14) WELL TESTS:

Type Test: ☑ Pump ☐ Bailer ☐ Jetted ☐ Estimated

Yield: 12 gpm with 10 ft. drawdown after 15 hrs.

15) WATER QUALITY:

Did the drilling penetrate any strata which contained undesirable constituents? ☐ Yes ☑ No If yes, submit "REPORT OF UNDESIRABLE WATER"

Type of water? _____ Depth of strata _____

Was a chemical analysis made? ☐ Yes ☑ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME MINDERMAN'S WELL SERVICE (Type or print) WELL DRILLER'S LICENSE NO. 0 022 10WP

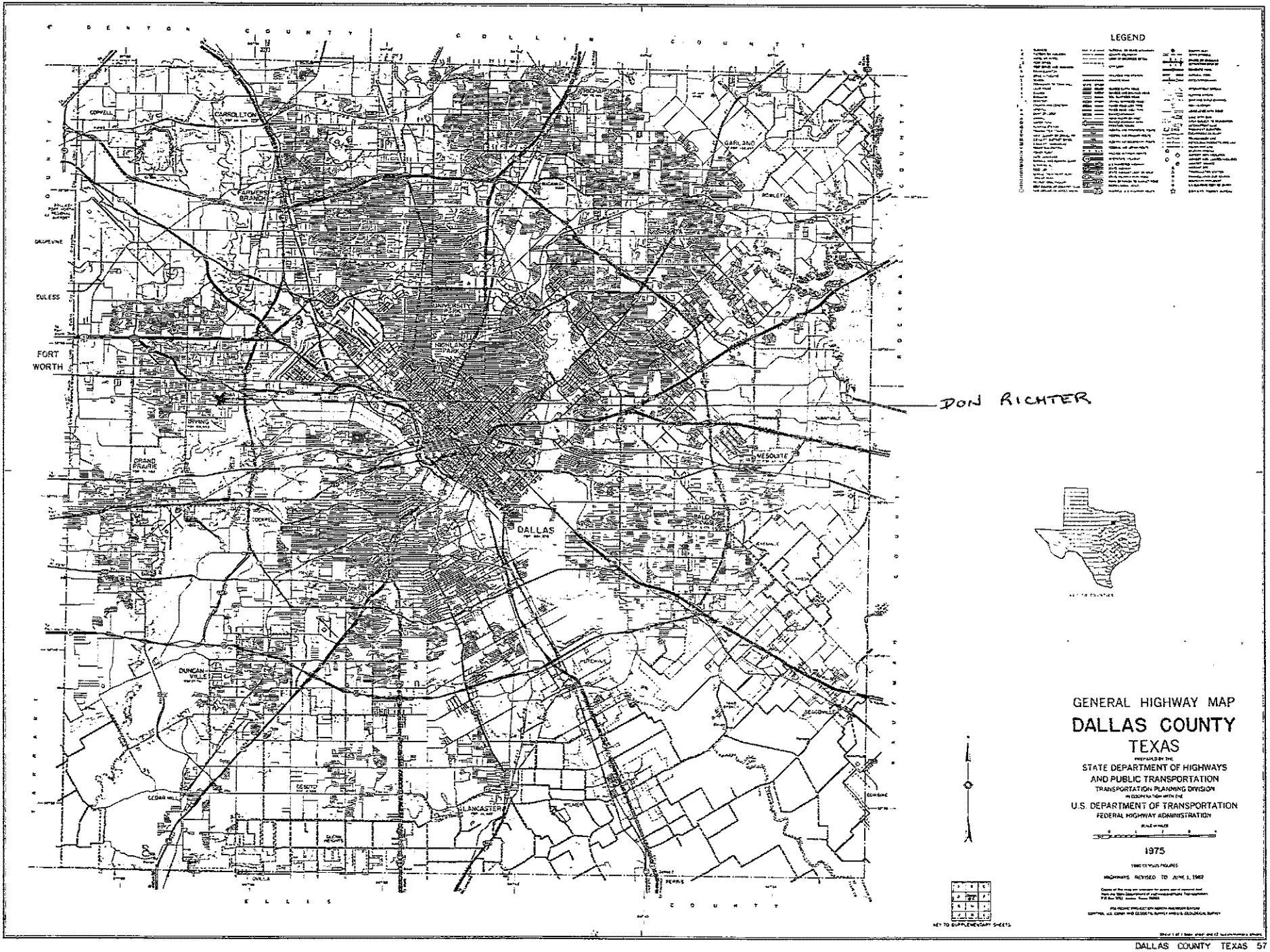
ADDRESS 1602 E. PRICE STREET (Street or RFD) KELLER (City) TX. (State) 76248 (Zip)

(Signed) _____ (Licensed Well Driller) (Signed) _____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only: Well No. _____ Located on map 73.09.5

WWD-012 (Rev. 09/21/88) 4811300282


DENTON COUNTY
COLLIN COUNTY
ROCKWALL COUNTY
TARRANT COUNTY
ELLIS COUNTY
CARROLLTON
COPPELL
FARMERS BRANCH
GARLAND
ROWLETT
GRAPEVINE
EULESS
FORT WORTH
IRVING
GRAND PRAIRIE
MESQUITE
DALLAS
DUNCAN-VILLE
DESOTO
CEDAR HILL
LANCASTER
SEAGOVILLE
COMBINE
FERRIS
LEGEND
DON RICHTER
GENERAL HIGHWAY MAP
DALLAS COUNTY
TEXAS
PREPARED BY THE
STATE DEPARTMENT OF HIGHWAYS
AND PUBLIC TRANSPORTATION
TRANSPORTATION PLANNING DIVISION
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
1975
HIGHWAYS REVISED TO JUNE 1, 1969
KEY TO SUPPLEMENTARY SHEETS

Richter

5D

Send original copy by certified mail to the Texas Water Development Board P. O. Box 12386 Austin, Texas 78711

State of Texas

WATER WELL REPORT

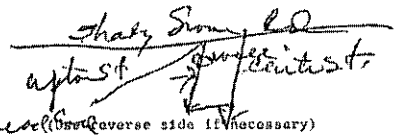
For TWDB use only
Well No. 35-09-5D
Located on map
Received:

1) OWNER:
Person having well drilled C.A. Phillips (Name) Address 1504 upton St (Street or RFD) Irving (City) Texas (State)

Landowner Same (Name) Address Same (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Dallas Miles in South center (N.E., S.W., etc.) Section Irving (Town) from

Locate by sketch map showing landmarks, roads, creeks, hiway number, etc.*



(Use reverse side if necessary)

or

Give legal location with distances and directions from adjacent sections or survey lines.

Labor _____ League _____

Block _____ Survey _____

Abstract No. _____

(NW¼ NE¼ SW¼ SE¼) of Section _____

3) TYPE OF WORK (Check): New Well ✓ Deepening Reconditioning Plugging

4) PROPOSED USE (Check): Domestic Industrial Municipal Irrigation Test Well Other (Yard)

5) TYPE OF WELL (Check): Rotary ✓ Driven Dug Cable Jetted Bored

6) WELL LOG:
Diameter of hole 6¼ in. Depth drilled 50' ft. Depth of completed well 50' ft. Date drilled 8-6-69

All measurements made from 0' ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0	2	Loam
2	20	Yellow clay
20	24	Sand Yellow
24	26	Gravel
26	45	Clay yellow
45	48	Small Gravel
48	50	Shale (Blue)

(Use reverse side if necessary)

9) Casing:
Type: Old Now ✓ Steel ✓ Plastic Other

Cemented from _____ ft. to _____ ft.

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Gage
4½"	0	50'	11#

10) SCREEN:
Type _____

Perforated Slotted

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Slot Size

7) COMPLETION (Check):
Straight wall Gravel packed ✓ Other
Under reamed Open Hole

8) WATER LEVEL:
Static level _____ ft. below land surface Date _____
Artesian pressure _____ lbs. per square inch Date _____
Depth to pump bowls, cylinder, jet, etc., _____ ft. below land surface.

11) WELL TESTS:
Was a pump test made? Yes No If yes, by whom?
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.
Bailer test _____ gpm with _____ ft. drawdown after _____ hrs.
Artesian flow _____ gpm
Temperature of water _____

12) WATER QUALITY:
Was a chemical analysis made? Yes No
Did any strata contain undesirable water? Yes No
Type of water? _____ depth of strata _____

I hereby certify that this well was drilled by me (or under my supervision) and that each and/all of the statements herein are true to the best of my knowledge and belief.

NAME A.B. Hopkamerion (Type or Print) Water Well Drillers Registration No. 112

ADDRESS 445 W Hiway 183 (Street or RFD) Irving (City) Texas (State)

(Signed) A.B. Hopkamerion Jr (Water Well Driller) (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

TWDBF-GM-53

Please use black ink. Send original copy by certified mail to the Texas Water Commission P.O. Box 13087 Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

Texas Water Well Drillers Board P. O. Box 13087 Austin, Texas 78711

1) OWNER JERRY THORN (Name) Address 1613 UPTON PLACE (Street or RFD) IRVING (City) TX (State) 75060 (Zip)

2) LOCATION OF WELL: County ~~TARRANT~~ DALLAS 2 miles in SSE (N.E., S.W., etc.) direction from IRVING (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☑ See attached map.

3) TYPE OF WORK (Check): ☑ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check): ☑ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ Other _____

5) DRILLING METHOD (Check): ☑ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored ☐ Driven ☐ Air Rotary ☐ Cable Tool ☐ Other _____

6) WELL LOG:
Date Drilling: Started 10-07 19 88 Completed 10-07 19 88

DIAMETER OF HOLE Dia. (in.)	From (ft.)	To (ft.)
7 1/4	Surface	60

From (ft.)	To (ft.)	Description and color of formation material
0	2	BROWN TOP SOIL
2	15	SANDY CLAY
15	30	SANDS
30	45	GRAVEL + SAND
45	50	GRAVEL, SAND + SHALE
50	60	SHALE

(Use reverse side if necessary)

7) BOREHOLE COMPLETION: ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☑ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from 10 ft. to 60 ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgf., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
4"	N	PVC BLANK	0	10	220 PSI
4	N	PVC SLOTTED	10	50	SAW
4	N	PVC BLANK	50	60	220 PSI

9) CEMENTING DATA [Rule 319.44(b)]
Cemented from 0 ft. to 10 ft. No. of Sacks Used 5
_____ ft. to _____ ft. No. of Sacks Used _____
Method used HAND MIXED
Cemented by ROBERT BASS

10) SURFACE COMPLETION
☑ Specified Surface Slab Installed [Rule 319.44(c)]
☐ Pitless Adaptor Used [Rule 319.44(d)]
☐ Approved Alternative Procedure Used [Rule 319.71]

11) WATER LEVEL:
Static level 30 ft. below land surface Date 10-07-88
Artesian flow _____ gpm. Date _____

12) PACKERS: Type N/A Depth

13) TYPE PUMP:
☐ Turbine ☐ Jet ☑ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 40 ft.

14) WELL TESTS:
Type Test: ☑ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: 15 gpm with 5 ft. drawdown after 2 hrs.

15) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☑ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☐ No

RECEIVED APR 18 1989 TEXAS WATER COMMISSION

I here by certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 12 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME MINDERMAN'S WELL SERVICE (Type or Print) Water Well Driller's License No. 02210W

ADDRESS 1632 E. PRICE (Street or RFD) KELLER (City) TEXAS (State) 76248 (Zip)

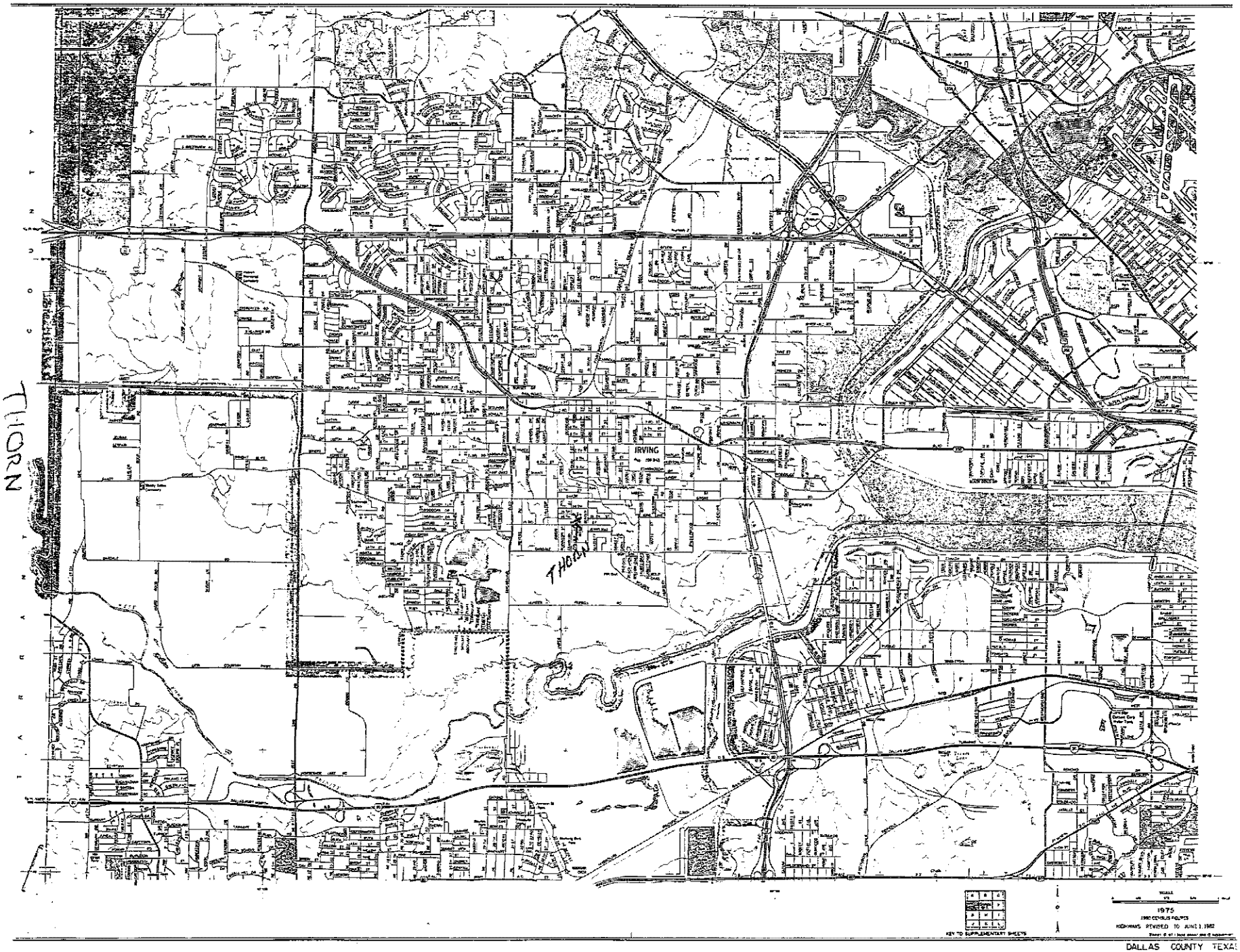
(Signed) W. L. Minderman (Licensed Water Well Driller) (Signed) _____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only Well No. 33-09-5 Located on map _____

TWC-0392 (Rev. 06-10-85) TEXAS WATER COMMISSION COPY

4811300283



DALLAS COUNTY TEXAS

STATE OF TEXAS WELL REPORT for Tracking #1873

Owner:	**Deavers Construction L.P.**	Owner Well #:	**No Data**
Address:	**1601 Rio Grande, Suite 343 Austin, TX 78701**	Grid #:	**33-09-8**
Well Location:	**Int. 30 E. of Macauther Grand Prairie, TX**	Latitude:	**32° 45' 33" N**
		Longitude:	**096° 57' 04" W**
Well County:	**Dallas**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Industrial**

Drilling Start Date: **6/1/2001** Drilling End Date: **6/26/2001**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8**	**0**	**458**

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**60**	**458**	**Gravel**	

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**60**	**19**

Seal Method: **Pressure trimine**

Sealed By: **Hubert Thompson**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **N/A**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **N/A**

Surface Completion: **Surface Sleeve Installed**

Water Level: **158 ft.** below land surface on **2001-06-20** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible**

Well Tests: **Pump** **Yield: 75 GPM with 30 ft. drawdown after 1 hours**

	Strata Depth (ft.)	Water Type
Water Quality:	**428**	**ground**

Chemical Analysis Made: **Unknown**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **R.L.Wagstaff Co.**

1212 Ross Lane
Seagoville, TX 75159

Driller Name: **Hubert S. Thompson** License Number: **2413**

Apprentice Name: **Robert L. Wagstaff** Apprentice Number: **596**

Comments: **Gravel packed bottom 50 with 8-16,the rest of the way up with .25 pea gravel.**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**10**	**Fill (clay)**
10	**24**	**Clay native**
24	**28**	**Sand and gravel**
28	**62**	**Clay gray**
62	**410**	**Light gray clay and shale mix**
410	**428**	**Gray shale tough**
428	**455**	**Sand gravel mix**
455	**458**	**Shale tough**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4	**N**	**.016 Slotted Pvc**	**458-418 Sch.40**
4	**N**	**Pvc Risher**	**418-3agl Sch.80**
10	**U**	**Steel pipe**	**8-3agl 1/4"**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

Send original copy by certified mail to the Texas Water Development Board P. O. Box 12386 Austin, Texas 78711

State of Texas

WATER WELL REPORT

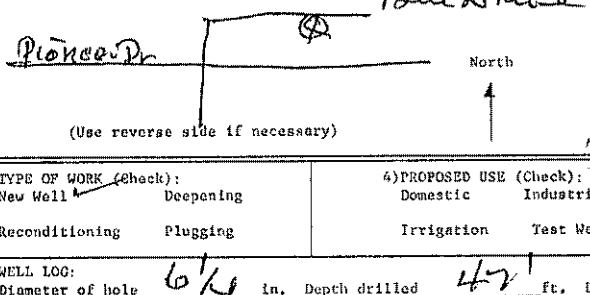
For TWDB use only
Well No. 33-07-5Q
Located on map Yes
Received:

1) OWNER:
Person having well drilled Lowry & Loveless (Name) Address 1420 Ben Dr. (Street or RFD) Irving (City) Texas (State)

Landowner Same (Name) Address Same (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Dallas, City limits in Central (N.E., S.W., etc.) direction from Irving. (Town)

Locate by sketch map showing landmarks, roads, creeks, hiway number, etc.*



(Use reverse side if necessary)

or

Give legal location with distances and directions from adjacent sections or survey lines.

Labor _____ League _____

Block _____ Survey _____

Abstract No. _____

(NW¼ NE¼ SW¼ SE¼) of Section _____

3) TYPE OF WORK (Check):
New Well ✓ Deepening
Reconditioning Plugging

4) PROPOSED USE (Check):
Domestic Industrial Municipal
Irrigation Test Well Other (yard)

5) TYPE OF WELL (Check):
Rotary ✓ Driven Dug
Cable Jetted Bored

6) WELL LOG:
Diameter of hole 6¼ in. Depth drilled 42' ft. Depth of completed well 42' ft. Date drilled 8-2/69

All measurements made from _____ ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0	4'	Topsoil Loam
4'	30'	Clay (yellow)
30'	36	Sand
36	40'	Sand (Med) Gravel
40'	42'	Shale, Blue

(Use reverse side if necessary)

9) Casing:
Type: Old New ✓ Steel Plastic Other

Cemented from _____ ft. to _____ ft.

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Gage
4½			9

10) SCREEN:
Type _____

Perforated Slotted

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Slot Size

7) COMPLETION (Check):
Straight wall Gravel packed ✓ Other
Under reamed Open Hole

8) WATER LEVEL:
Static level _____ ft. below land surface Date _____
Artesian pressure _____ lbs. per square inch Date _____
Depth to pump bowls, cylinder, jet, etc., _____ ft. below land surface.

11) WELL TESTS:
Was a pump test made? Yes No If yes, by whom?
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.
Bailer test _____ gpm with _____ ft. drawdown after _____ hrs.
Artesian flow _____ gpm
Temperature of water _____

12) WATER QUALITY:
Was a chemical analysis made? Yes No
Did any strata contain undesirable water? Yes No
Type of water? _____ depth of strata _____

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME A. B. Hopkemeier (Type or Print) Water Well Drillers Registration No. 112

ADDRESS 4445 W. Hi Way 183 (Street or RFD) Irving (City) Texas (State)

(Signed) A. B. Hopkemeier (Water Well Driller) Hopkemeier Drlg Co. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

TWDBE-OW-53

4811300271

33-09-5K GW 7

Send original copy by certified mail to the Texas Water Development Board P. O. Box 12386 Austin, Texas 78711	State of Texas WATER WELL REPORT	For TWDB use only Well No. 33-09-5K Located on map ✓ Received: 74 Form GW 8 Form GW 9

1) OWNER:
Person having well drilled J. C. Kirkpatrick (Name) Address 1330 Porter Irving, Texas (Street or RFD) (City) (State)

Landowner Same (Name) Address (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Dallas Labor League Abstract No. N. J. Rutan Hts Drive
NW¼ NE¼ SW¼ SE¼ of Section Block No. Survey
(Circle as many as are known)
5 miles in NE (NE, SW, etc.) direction from Downtown Irving (Town), Union Power St.
Porter St. NORTH
195 Porter
Pioneer Drive
Rockland R.R.
3 mi

Sketch map of well location with distances from adjacent section or survey lines, and to landmarks, roads and creeks.

3) TYPE OF WORK (Check):
New Well ☑ Deepening ☐
Reconditioning ☐ Plugging ☐

4) PROPOSED USE (Check):
Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☑ Test Well ☐ Other ☐

5) TYPE OF WELL (Check):
Rotary ☐ Driven ☐ Dug ☐
Cable ☐ Jetted ☐ Bored ☐

6) WELL LOG:
Diameter of hole 10 3/4" in. Depth drilled 46' ft. Depth of completed well 46 ft. Date drilled 3-15-74
All measurements made from 0' ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material	From (ft.)	To (ft.)	Description and color of formation material
0	10	Surface Loam			
10	36	yellow clay			
36	38	- Sand			
38	44'	Gravel			
44'	46'	Blue Shale (yard well)			

(Use reverse side if necessary)

7) COMPLETION (Check):
Straight wall ☐ Gravel packed ☑ Other ☐
Under reamed ☐ Open hole ☐

8) WATER LEVEL:
Static level ____ ft. below land surface Date
Artesian pressure ____ lbs. per square inch Date

9) CASING:
Type: old ☐ New ☑ Steel ☐ Plastic ☑ Other ☐
Cemented from ____ ft. to ____ ft.

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Gage
6"	0'	46½'	Plastic

10) SCREEN:
Type
Perforated ☐ Slotted ☐

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Slot size

11) WELL TESTS:
Was a pump test made? ☐ Yes ☐ No If yes by whom?
Yield: ____ gpm with ____ ft. drawdown after ____ hrs
Bailer test ____ gpm with ____ ft. drawdown after ____ hrs
Artesian flow ____ gpm Date
Temperature of water
Was a chemical analysis made? ☐ Yes ☐ No
Did any strata contain undesirable water? ☐ Yes ☐ No
Type of water? ____ depth of strata

12) PUMP DATA:
Manufacturer's Name
Type ____ H.P.
Designed pumping rate ____ gpm ☐ gph ☐
Type power unit
Depth to bowls, cylinder, jet, etc., ____ ft. below land surface.

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME A. B. Hoipkemeier (Type or Print) Water Well Drillers Registration No. 114
Address P.O. Box 516 Irving (Street or RFD) (City) Texas (State)
(Signed) A. B. Hoipkemeier (Water Well Driller) Hoipkemeier Drlng Co. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

4811300267

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-501

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3309501
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.829167
Latitude (degrees minutes seconds)	32° 49' 45" N
Longitude (decimal degrees)	-96.957501
Longitude (degrees minutes seconds)	096° 57' 27" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	218PLXY - Paluxy Sand
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	491
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	2184
Well Depth Source	Owner
Drilling Start Date	
Drilling End Date	0/0/1952
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Plugged or Destroyed
Water Level Observation	None
Water Quality Available	Yes
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	City of Irving Old #3 Well
Driller	Layne-Texas Co
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	Old #3
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	10/17/1956
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 1/1/1953 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Municipal Water Agency or Public Water Supply Corp

Sampled Aquifer: Paluxy Sand

Analyzed Lab: Texas Department of Health **Reliability:** From a report; unknown sample collection & preservation

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		440	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		536.95	mg/L	
00910	CALCIUM (MG/L)		8	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		107	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.6	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		36	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		200	ug/L	
00920	MAGNESIUM (MG/L)		4	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.04	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.3	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.07		
00955	SILICA, DISSOLVED (MG/L AS SI02)		37	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		25.23		
00932	SODIUM, CALCULATED, PERCENT		95	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		350	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		198	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		969	mg/L	

Water Quality Analysis

Sample Date: 8/1/1959 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Municipal Water Agency or Public Water Supply Corp

Sampled Aquifer: Paluxy Sand

Analyzed Lab: Texas Department of Health **Reliability:** From a report; unknown sample collection & preservation

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		443	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		540.61	mg/L	
00910	CALCIUM (MG/L)		3	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		104	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.9	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		11	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)	<	100	ug/L	
00920	MAGNESIUM (MG/L)		1	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.2	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.63		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		42.79		
00932	SODIUM, CALCULATED, PERCENT		98	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		335	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1650	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		150	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		861	mg/L	

Water Quality Analysis

Sample Date: 3/31/1961 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Municipal Water Agency or Public Water Supply Corp

Sampled Aquifer: Paluxy Sand

Analyzed Lab: Texas Department of Health **Reliability:** From well not sufficiently pumped; not filtered or preserved

Collection Remarks: storage tank

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		435	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		530.85	mg/L	
00910	CALCIUM (MG/L)		2	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		103	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		9	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		230	ug/L	
00920	MAGNESIUM (MG/L)	<	1	mg/L	
01055	MANGANESE, TOTAL (UG/L AS MN)	<	50	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.3	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.52		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		52.76		
00932	SODIUM, CALCULATED, PERCENT		98	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		366	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1594	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		163	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		898	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.

03/05/2024
05:03:17

Texas Commission on Environmental Quality
DWW Water System Summary Sheet

PWS ID	PWS Name	Central Registry RN
TX0570050	CITY OF IRVING Superior	RN101386035

Organization/Customer *	Central Registry CN
CITY OF IRVING	CN600243471

*Regulatory mail will be addressed to this organization/person

All Water System Contacts

Type	Contact	Communication	
AC - Administrative Contact - MAYOR	STOPFER, RICK 825 W IRVING BLVD IRVING, TX 75060-2845	**Electronic Type**	**Value**
		Phone Type	**Value**
		BUS - Business	972-721-2410
ECS - Emergency Contact - Secondary - ASSISTANT DIRECTOR	PETTIT, STEVE 333 VALLEY VIEW LN IRVING, TX 75061-6024	**Electronic Type**	**Value**
		Phone Type	**Value**
		BUS - Business	972-721-3538
		FAX - Facsimile	972-721-2280
		MOB - Mobile	214-876-5566
OW - Owner	CITY OF IRVING		
PWS - Public Water System Contact - QUALITY SUPERVISOR	COLLIER, MICHAEL 333 VALLEY VIEW LN IRVING, TX 75061-6024	**Phone Type**	**Value**
		BUS - Business	972-721-2281

Operator Grade	Number
WATER DISTRIBUTION OPERATOR Grade C	76
WATER OPERATOR Grade D	9
WATER DISTRIBUTION OPERATOR Grade B	13
GROUND WATER TREATMENT OPERATOR Grade C	3
WATER OPERATOR Grade A	5

Water Operator Licenses

License Holder:	LOVE, MARK	
CURRENT	Class: A - WATER OPERATOR	WO0034648
License Holder:	VENABLE, JOSHUA R	
CURRENT	Class: A - WATER OPERATOR	WO0053620
License Holder:	GRIMES, DANIEL L	
CURRENT	Class: A - WATER OPERATOR	WO0031352
License Holder:	GARZA, ARTURO	
CURRENT	Class: A - WATER OPERATOR	WO0037025
License Holder:	MASELLA, DANNY JOSEPH	
CURRENT	Class: A - WATER OPERATOR	WO0003745

License Holder:	BULLARD, KENDALL P	
CURRENT	Class: B - WATER DISTRIBUTION OPERATOR	WD0015810
License Holder:	HERNANDEZ, OSMAN R	
CURRENT	Class: B - WATER DISTRIBUTION OPERATOR	WD0017054
License Holder:	SWINNEY, STEVEN D	
CURRENT	Class: B - WATER DISTRIBUTION OPERATOR	WD0009391
License Holder:	BOYLE, KENNETH R	
CURRENT	Class: B - WATER DISTRIBUTION OPERATOR	WD0001204
License Holder:	GONZALES, WILLIAM J	
CURRENT	Class: B - WATER DISTRIBUTION OPERATOR	WD0013038
License Holder:	STONEBURNER, PATRICK G	
CURRENT	Class: B - WATER DISTRIBUTION OPERATOR	WD0014928
License Holder:	LOPEZ, RICHARD	
CURRENT	Class: B - WATER DISTRIBUTION OPERATOR	WD0017225
License Holder:	VILLANUEVA, JOSHUA L	
CURRENT	Class: B - WATER DISTRIBUTION OPERATOR	WD0016734
License Holder:	GONZALES, AARON L	
CURRENT	Class: B - WATER DISTRIBUTION OPERATOR	WD0013545
License Holder:	HOCKENBERRY, ROBERT J	
CURRENT	Class: B - WATER DISTRIBUTION OPERATOR	WD0000147
License Holder:	PATTERSON, TOMMY L	
CURRENT	Class: B - WATER DISTRIBUTION OPERATOR	WD0014695
License Holder:	LOWERY, FREDRICK D	
CURRENT	Class: B - WATER DISTRIBUTION OPERATOR	WD0016604
License Holder:	GALINDO, ANTHONY SR	
CURRENT	Class: B - WATER DISTRIBUTION OPERATOR	WD0017062
License Holder:	JOHNSON, DAVID E	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0003448
License Holder:	BRISCOE, STEVEN M	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0000799
License Holder:	HILL, CHRISTOPHER SCOTT	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0001093
License Holder:	BRADLEY, JASON E	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0012078
License Holder:	CRISTOBAL-VEGA, ALFREDO	

CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0017902
License Holder:	DUFFY, NICHOLAS R	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0013707
License Holder:	PERRY, CHARLES GLENN	
CURRENT	Class: C - GROUND WATER TREATMENT OPERATOR	WG0013527
License Holder:	WEST, COREY SCOTT	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0017801
License Holder:	GARCIA, JOSE R	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0012726
License Holder:	PIKE, BILLY J SR	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0017186
License Holder:	JOHNSON, ROBERT R	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0015492
License Holder:	BANDA, CARLOS SR	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0003046
License Holder:	BUSTAMANTE, JOHN E	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0003947
License Holder:	VALENCIA RODRIGUEZ, CESAR	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0017136
License Holder:	LANDRUM, JUSTIN M	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0014029
License Holder:	SANDERSON, KEATON L	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0011663
License Holder:	BARTON, DENNIS J	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0015960
License Holder:	GRIESINGER, ZACHARY	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0016205
License Holder:	SANTOS, HECTOR	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0018567
License Holder:	GARZA, JOE D	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0005335
License Holder:	GARCIA, CESAR	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0017439
License Holder:	TRAYLOR, LAMONT A	

CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0001772
License Holder:	ANDREWS, DANIEL I	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0003504
License Holder:	COOK, DAVID A	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0000216
License Holder:	MARTINEZ, VICTOR M	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0008546
License Holder:	LIN, LAURENCE JACKIE	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0016962
License Holder:	MENDOZA, MOISES T JR	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0006693
License Holder:	DAVALOS, LORENZO S JR	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0016622
License Holder:	AVALOS, JOSE JR	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0018018
License Holder:	MELGAR, KARBERT R	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0003633
License Holder:	BLEVINS, EUGENE E	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0000153
License Holder:	RIVERS, TRAVIS J	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0013936
License Holder:	HAMM, PAUL B	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0004425
License Holder:	TORRES, JORGE	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0018404
License Holder:	JACKSON, JASON S	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0009194
License Holder:	COLLIER, MICHAEL S	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0001677
License Holder:	HURTADO, ROBERT T III	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0009258
License Holder:	KING, EDWIN L	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0003597
License Holder:	JOHNSON, JEFFREY S	

CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0010585
License Holder:	MCCLAINE, JUSTIN	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0018271
License Holder:	ALLEN, JOHNATHON	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0016627
License Holder:	BELTRAN, IGNACIO J	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0013930
License Holder:	PALOMO, LUIS OCTAVIO	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0018151
License Holder:	SHERRIN, EARL D II	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0007119
License Holder:	STARK, ANTHONY S	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0001117
License Holder:	VILLANUEVA, JOSEPH L	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0001263
License Holder:	SHIFLET, JEFFREY E	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0000980
License Holder:	HARRIS, GARY W	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0002711
License Holder:	CLAPP, DAVID H	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0003690
License Holder:	BERHOW, SHANE M	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0006373
License Holder:	LOZANO, OMAR DE JESUS	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0018142
License Holder:	DELAPAZ, RICARDO	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0017814
License Holder:	LILE, JASON W	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0006491
License Holder:	JIMENEZ, EMILIANO	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0018339
License Holder:	TORRES, GREGORY M	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0013716
License Holder:	OSEGUEDA, JOSE RICARDO	

CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0017512
License Holder:	DOHERTY, JUSTIN LEE	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0017876
License Holder:	GOMEZ, MARCOS M	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0002404
License Holder:	MERCIER, ANTHONY JUSTUS	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0017443
License Holder:	ALDAPE, ALEX	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0009857
License Holder:	GAPA, JONATHAN T	
CURRENT	Class: C - GROUND WATER TREATMENT OPERATOR	WG0017365
License Holder:	PITTMAN, MATTHEW R	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0010664
License Holder:	PETTIT, STEVEN M	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0010157
License Holder:	RIGGS, CHARLES O	
CURRENT	Class: C - GROUND WATER TREATMENT OPERATOR	WG0003757
License Holder:	KERSHAW, RANDAL WAYNE	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0003903
License Holder:	HARRIS, NIKOLLAS CARLTON	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0018141
License Holder:	HERNANDEZ, RENE	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0017551
License Holder:	FRANCO, JOSE ANGEL	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0017700
License Holder:	GARCIA, JULIAN	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0016498
License Holder:	HALL, DAVID W	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0002510
License Holder:	SCHLEIF, BRETT A	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0015314
License Holder:	LOZANO, CESAR GAMALIER	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0018091
License Holder:	ALLEN, BARRY M	

CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0001073
License Holder:	SCHINGLE, PHILLIP L	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0000903
License Holder:	WALKER, MATT D	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0011027
License Holder:	SPRAGUE, BRADLEY M	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0014478
License Holder:	STEPHENS, BRANDON N	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0009438
License Holder:	PITTMAN, REGINALD W	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0008182
License Holder:	BRISCOE, STACEY M	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0010275
License Holder:	MORALES, MANUEL	
CURRENT	Class: D - WATER OPERATOR	WO0049811
License Holder:	NIGO, MARCOS ANDRES	
CURRENT	Class: D - WATER OPERATOR	WO0048486
License Holder:	TURNER, JEREMIAH LATRELL	
CURRENT	Class: D - WATER OPERATOR	WO0049872
License Holder:	ESCOBAR, WALTER ANTONIO	
CURRENT	Class: D - WATER OPERATOR	WO0050892
License Holder:	SANCHEZ, JESUS JAVIER	
CURRENT	Class: D - WATER OPERATOR	WO0043984
License Holder:	HERNANDEZ, DIEGO IVAN	
CURRENT	Class: D - WATER OPERATOR	WO0043961
License Holder:	GOMEZ, VICTOR MANUEL	
CURRENT	Class: D - WATER OPERATOR	WO0048519
License Holder:	HOFFMAN, COLBY JAMES	
CURRENT	Class: D - WATER OPERATOR	WO0050754
License Holder:	PEREZ, KEVIN	
CURRENT	Class: D - WATER OPERATOR	WO0047315
License Holder:	VENABLE, JOSHUA R	
EXPIRED	Class: B - WATER DISTRIBUTION OPERATOR	WD0015412
License Holder:	MAHONEY, JON F	
EXPIRED	Class: B - WATER DISTRIBUTION OPERATOR	WD0003408
License Holder:	CARD, HUGH C III	
EXPIRED	Class: B - GROUND WATER TREATMENT OPERATOR	WG0005852
License Holder:	MCMAHON, DANIEL B	
EXPIRED	Class: B - WATER DISTRIBUTION OPERATOR	WD0000168
License Holder:	LAYER, JOSHUA A	

EXPIRED	Class: C - WATER DISTRIBUTION OPERATOR	WD0013474
License Holder:	GALINDO, ANTHONY SR	
EXPIRED	Class: C - WATER DISTRIBUTION OPERATOR	WD0007964
License Holder:	GARNER, COREY D	
EXPIRED	Class: C - WATER DISTRIBUTION OPERATOR	WD0010544
License Holder:	JACKSON, ROBERT M	
EXPIRED	Class: C - WATER DISTRIBUTION OPERATOR	WD0015809
License Holder:	BORNE, JURGEN P SR	
EXPIRED	Class: C - WATER DISTRIBUTION OPERATOR	WD0003078
License Holder:	VALENCIA RODRIGUEZ, CESAR	
EXPIRED	Class: D - WATER OPERATOR	WO0045476
License Holder:	LOZANO, OMAR DE JESUS	
EXPIRED	Class: D - WATER OPERATOR	WO0046511
License Holder:	JIMENEZ, EMILIANO	
EXPIRED	Class: D - WATER OPERATOR	WO0050582
License Holder:	CRISTOBAL-VEGA, ALFREDO	
EXPIRED	Class: D - WATER OPERATOR	WO0047588
License Holder:	TORRES, JORGE	
EXPIRED	Class: D - WATER OPERATOR	WO0049562
License Holder:	AVALOS, JOSE JR	
EXPIRED	Class: D - WATER OPERATOR	WO0021323
License Holder:	HERNANDEZ, RENE	
EXPIRED	Class: D - WATER OPERATOR	WO0046682
License Holder:	MERCIER, ANTHONY JUSTUS	
EXPIRED	Class: D - WATER OPERATOR	WO0047534
License Holder:	DOHERTY, JUSTIN LEE	
EXPIRED	Class: D - WATER OPERATOR	WO0048470
License Holder:	WEST, COREY SCOTT	
EXPIRED	Class: D - WATER OPERATOR	WO0048257
License Holder:	PIKE, BILLY J SR	
EXPIRED	Class: D - WATER OPERATOR	WO0044118
License Holder:	PALOMO, LUIS OCTAVIO	
EXPIRED	Class: D - WATER OPERATOR	WO0050329
License Holder:	GARCIA, JULIAN	
EXPIRED	Class: D - WATER OPERATOR	WO0044795
License Holder:	OSEGUEDA, JOSE RICARDO	
EXPIRED	Class: D - WATER OPERATOR	WO0046980
License Holder:	YEPEZ, MIGUEL EDMUNDO	
EXPIRED	Class: D - WATER OPERATOR	WO0045680
License Holder:	HARRIS, NIKOLLAS CARLTON	
EXPIRED	Class: D - WATER OPERATOR	WO0050876
License Holder:	FRANCO, JOSE ANGEL	
EXPIRED	Class: D - WATER OPERATOR	WO0047458
License Holder:	SANTOS, HECTOR	
EXPIRED	Class: D - WATER OPERATOR	WO0051335

License Holder:	MCCLAINE, JUSTIN	
EXPIRED	Class: D - WATER OPERATOR	WO0050987
License Holder:	LOZANO, CESAR GAMALIER	
EXPIRED	Class: D - WATER OPERATOR	WO0045371
License Holder:	DELAPAZ, RICARDO	
EXPIRED	Class: D - WATER OPERATOR	WO0035121
License Holder:	YEPEZ, MIGUEL EDMUNDO	
SUSPENDED	Class: C - WATER DISTRIBUTION OPERATOR	WD0017362

Owner Type	Owner Type Options: COUNTY, DISTRICT, FEDERAL GOVERNMENT, INVESTOR OWNED, MUNICIPALITY, NATIVE AMERICAN, PRIVATE, STATE GOVERNMENT, WATER SUPPLY CORPORATION
Municipality	

System Type	System Type Options: COMMUNITY, TRANSIENT/NON-COMMUNITY, NON-PUBLIC, NON-TRANSIENT/NON-COMMUNITY
C - Community	

Population Type	Population Served	# of Connect	# I/C w/other PWS
Residential	240420	109035	0

Total Product (MGD)	Average Daily Consump.	Max Daily Demand (MGD)	Total Storage (MG)	Elev. Storage (MG)	Service Pump Cap.	Max.Purchase Cap.(MGD/GPM)	Pressure Tank Cap. (MG)
####### MGD	####### MGD	####### MGD Occurred on 08/15/2020	68.5 MG	###### MG	199.82 MGD		

Activity Status	Inactivation Date
A - ACTIVE	

Last Survey Date	Surveyor	Survey Type	Region	County
11/16/2020	MERISSA GREEN	Sanitary Survey	ARLINGTON	DALLAS
10/30/2017	GREGORY NAGEL	Sanitary Survey	ARLINGTON	DALLAS
10/30/2017	DANIELA HILL	Sanitary Survey	ARLINGTON	DALLAS

(Treatment Plant)							
Entry Point	EP Name/Source Summation (Activity Status)	Plant Name (Activity Status)	Plant Num	Chemical Mon Type	Chem Sample Point	Distribution Mon Type	Dist Sample Point
EP001	TRT-TAP / Purchased Surface Water(A)	PLANT - 1900 N MACARTHUR BLVD(A)	TP15604		NO		NO

Train:	Unnamed			
(Treatments)				
Disinfection Zone	Treatment Sequence	Objective	Process	Treatment
null	null	D	423	HYPOCHLORINATION, PRE

(Active Sources)						
Source Number	Source Name (Activity Status)	Operational Status	Source Type	Depth	Tested GPM	Rated GPM
P0570050A	SW FROM CITY OF DALLAS (A)	P	P	N/A	N/A	N/A

Drill Date		Source Summary		
None Available				
GPS Latitude (decimal)	GPS Longitude (decimal)	GPS Elevation	GPS Date	Seller
				TX0570004

(Inactive/Offline Sources)			
SourceNumber	Name	Status	Depth

(Treatment Plant)							
Entry Point	EP Name/Source Summation (Activity Status)	Plant Name (Activity Status)	Plant Num	Chemical Mon Type	Chem Sample Point	Distribution Mon Type	Dist Sample Point
EP005	TRT-TAP / Purchased Surface Water(A)	PLANT - 8500 RANCHVIEW DR(A)	TP15605		NO		NO

Train:	Unnamed			
(Treatments)				
Disinfection Zone	Treatment Sequence	Objective	Process	Treatment
null	null	D	423	HYPOCHLORINATION, PRE

(Active Sources)						
Source Number	Source Name (Activity Status)	Operational Status	Source Type	Depth	Tested GPM	Rated GPM
P0570050A	SW FROM CITY OF DALLAS (A)	P	P	N/A	N/A	N/A

Drill Date		Source Summary		
None Available				
GPS Latitude (decimal)	GPS Longitude (decimal)	GPS Elevation	GPS Date	Seller

				TX0570004

(Inactive/Offline Sources)			
SourceNumber	Name	Status	Depth

(Treatment Plant)							
Entry Point	EP Name/Source Summation (Activity Status)	Plant Name (Activity Status)	Plant Num	Chemical Mon Type	Chem Sample Point	Distribution Mon Type	Dist Sample Point
EP006	TRT-TAP / Purchased Surface Water(A)	PLANT - 1100 E NORTHGATE DR(A)	TP411704		NO		NO

Train:	Unnamed			
(Treatments)				
Disinfection Zone	Treatment Sequence	Objective	Process	Treatment
null	null	D	423	HYPOCHLORINATION, PRE

(Active Sources)						
Source Number	Source Name (Activity Status)	Operational Status	Source Type	Depth	Tested GPM	Rated GPM
P0570050A	SW FROM CITY OF DALLAS (A)	P	P	N/A	N/A	N/A

Drill Date		Source Summary		
None Available				
GPS Latitude (decimal)	GPS Longitude (decimal)	GPS Elevation	GPS Date	Seller
				TX0570004

(Inactive/Offline Sources)			
SourceNumber	Name	Status	Depth

Code Explanations
Monitoring Type Codes: (GW) GROUNDWATER , (GUP) GROUNDWATER UNDER THE INFLUENCE - PURCHASED , (SWP) SURFACE WATER - PURCHASED , (GU) GROUNDWATER UNDER THE INFLUENCE OF SURFACE WATER , (N) NO SOURCES , (SW) SURFACE WATER
Activity Status Codes: (A) ACTIVE , (D) DELETED/DISSOLVED , (I) INACTIVE , (P) PROPOSED ,
Operational Status Codes: (E) EMERGENCY , (I) INTERIM/PEAK (O) OTHER , (P) PERMANENT , (S) SEASONAL
Source Types: (G) GROUND WATER , (S) SURFACE WATER , (U) GROUND WATER UNDER

- End of Report -

At the time of your query this data was the most current information available from our database, which is in real time. Every effort was made to retrieve it according to your query. Thank-you for using DWW.

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-504

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3309504
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.818611
Latitude (degrees minutes seconds)	32° 49' 07" N
Longitude (decimal degrees)	-96.933611
Longitude (degrees minutes seconds)	096° 56' 01" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	218TWMT - Twin Mountains Formation
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	489
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	2267
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	0/0/1948
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Plugged or Destroyed
Water Level Observation	None
Water Quality Available	Yes
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	City of Irving Well #2
Driller	J.L. Myers Sons
Other Data Available	Drillers Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	2
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	10/16/1956
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 3/1/1952 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Municipal Water Agency or Public Water Supply Corp

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: from well

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		10	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		425	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		494.24	mg/L	
00910	CALCIUM (MG/L)		31	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		12	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		99	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.4	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		89	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		240	ug/L	
00920	MAGNESIUM (MG/L)		3	mg/L	
01055	MANGANESE, TOTAL (UG/L AS MN)	<	50	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.5	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		6.71		
00955	SILICA, DISSOLVED (MG/L AS SI02)		30	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		15.8		
00932	SODIUM, CALCULATED, PERCENT		89	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)	calculated	344	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		311	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1075	mg/L	

Water Quality Analysis

Sample Date: 1/1/1953 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Municipal Water Agency or Public Water Supply Corp

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: Texas Department of Health **Reliability:** From a report; unknown sample collection & preservation

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		435	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		530.85	mg/L	
00910	CALCIUM (MG/L)		6	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		99	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		27	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		200	ug/L	
00920	MAGNESIUM (MG/L)		3	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		0	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.3	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.15		
00955	SILICA, DISSOLVED (MG/L AS SI02)		17	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		30.3		
00932	SODIUM, CALCULATED, PERCENT		96	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		364	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		235	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		987	mg/L	

Water Quality Analysis

Sample Date: 3/31/1961 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Municipal Water Agency or Public Water Supply Corp

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: Texas Department of Health **Reliability:** Reliability unknown or not available

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		411	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		501.56	mg/L	
00910	CALCIUM (MG/L)		5	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		98	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		20	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		50	ug/L	
00920	MAGNESIUM (MG/L)		2	mg/L	
01055	MANGANESE, TOTAL (UG/L AS MN)	<	50	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		7.7	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.81		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		37.09		
00932	SODIUM, CALCULATED, PERCENT		97	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		388	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1780	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		280	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1022	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-507

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3309507
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.818611
Latitude (degrees minutes seconds)	32° 49' 07" N
Longitude (decimal degrees)	-96.933889
Longitude (degrees minutes seconds)	096° 56' 02" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	218TWMT - Twin Mountains Formation
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	489
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	2250
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	6/19/1972
Drilling Method	Mud (Hydraulic) Rotary
Borehole Completion	Gravel Pack w/Screen

Well Type	Withdrawal of Water
Well Use	Plugged or Destroyed
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	City of Irving
Driller	Layne-Texas
Other Data Available	Aquifer Test; Drillers Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0570050A
Groundwater Conservation District Well Number	
Owner Well Number	New #1
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	5/28/1975
Last Update Date	3/4/2020

Remarks	Reported yield 759 GPM in 1972. Aquifer test results in TDWR R-269. Test data and modern analyses in TWDB files. Geophysical log Q-71. TCEQ reports well is plugged.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
16	Blank	Steel			0	2093
9	Blank	Steel			1993	2102
9	Screen	Stainless Steel			2102	2125
9	Blank	Steel			2125	2129
9	Screen	Stainless Steel			2129	2169
9	Blank	Steel			2169	2173
9	Screen	Stainless Steel			2173	2214
9	Blank	Steel			2214	2220
9	Screen	Stainless Steel			2220	2240
9	Blank	Steel			2240	2250

Well Tests - No Data

Lithology - No Data

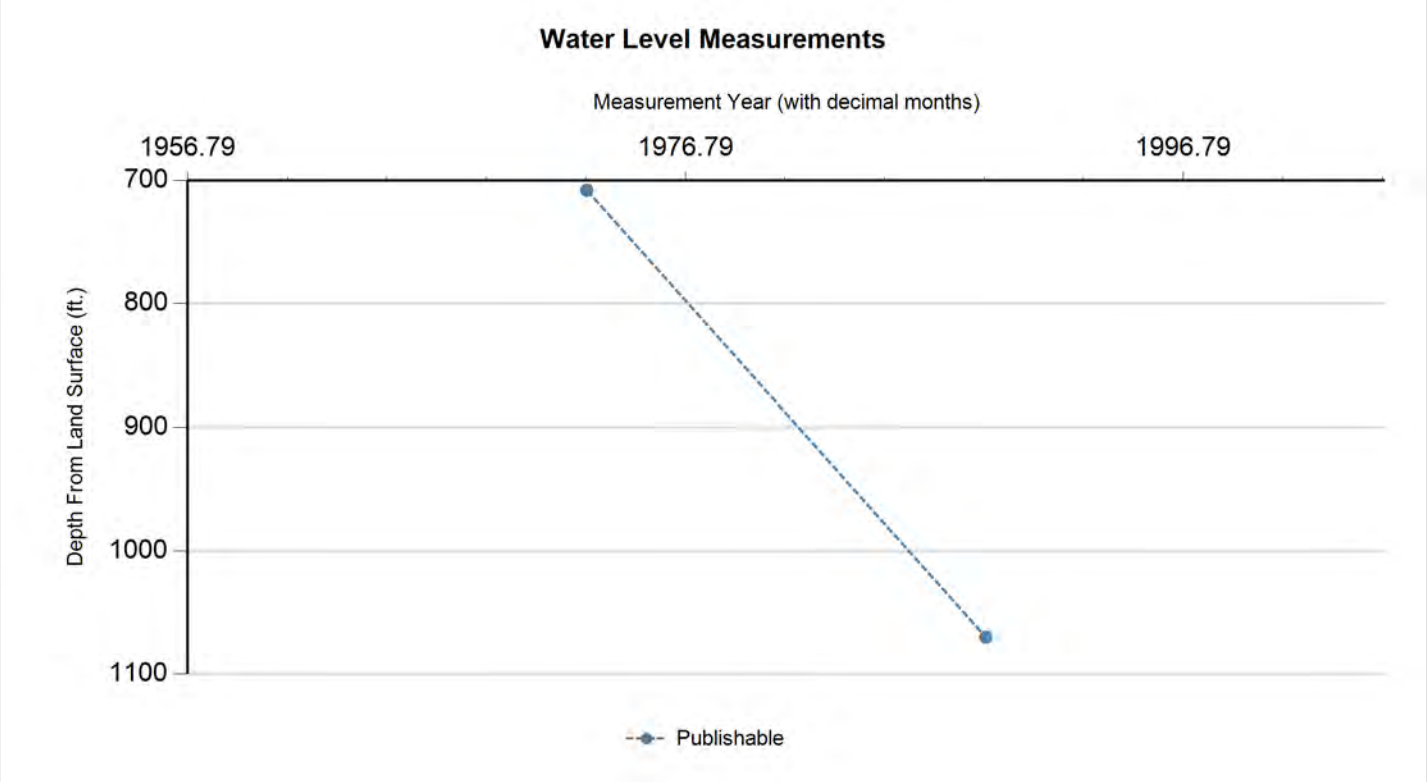
Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	11/1/1972		708		-219	1	Registered Water Well Driller	Air Line		
P	11/15/1988		1070	362.00	-581	1	Texas Water Development Board	Recorder (Float or Transducer)		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis

Sample Date: 10/31/1972 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Department of Health

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: Texas Department of Health **Reliability:** Reliability unknown or not available

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		3	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		419	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		504	mg/L	
00910	CALCIUM (MG/L)		4	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		3.6	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		98	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.2	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		22	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)	<	20	ug/L	
00920	MAGNESIUM (MG/L)		3	mg/L	
01055	MANGANESE, TOTAL (UG/L AS MN)	<	50	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.4	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.93		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		33.88		
00932	SODIUM, CALCULATED, PERCENT		97	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		368	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1806	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		273	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1000	mg/L	

Water Quality Analysis

Sample Date: 11/3/1972 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Registered Water Well Driller

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: Pope Testing Lab **Reliability:** Reliability unknown or not available

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		8	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		422	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		495.46	mg/L	
00910	CALCIUM (MG/L)		5.6	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		9.6	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		97	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.5	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		23	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		2.4	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		0	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.1	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.96		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		33.24		
00932	SODIUM, CALCULATED, PERCENT		97	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		368	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1320	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		255	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		982	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

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33095N

File original copy with
Texas Water Commission
P. O. Box 2311, Capitol Station
Austin 11, Texas

State of Texas

DRILLERS LOG AND WELL DATA REPORT

For use by TWC only
Well No. 33-09 - 5N
Located on map 10 S
By ale Date 67
Map no.

1) Well Owner: R. H. Zorin (Name) 1207 Dart St. (Street or RFD) Irving (City), Tex. (State)

2) Land Owner: Same (Name) (Street or RFD) (City) (State)

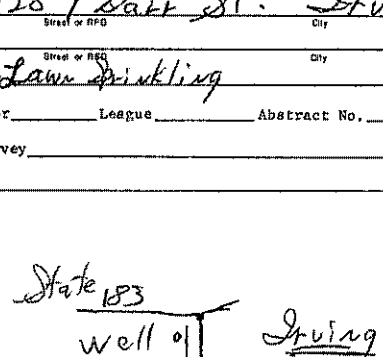
3) Intended use: Industrial ☐ Municipal ☐ Irrigation ☐ Other Lawn Sprinkling

4) Location of well: County Dallas Labor _____ League _____ Abstract No. _____

NW¼ NE¼ SW¼ SE¼ of Section _____ Block No. _____ Survey _____
(Circle as many as are known)

_____ miles in _____ (NE, SW, etc.) direction
from _____ (Town)

North



Sketch map of well location with distances from two section or survey lines, and to landmarks, roads, and creeks.

DRILLERS LOG OF WELL

Method of drilling: Rotary Diameter of hole 36 in. Date drilled 6-16-6X

All measurements made from 0 ft. above ground level.

From (ft)	To (ft)	Description and color of formation material	From (ft)	To (ft)	Description and color of formation material
1	3	Brown Sandy Topsoil			
3	15	Brown Sandy Clay			
15	32	Water Bearing Sand & Gravel			
32	42	Blue Shale			

(Use continuation sheets if necessary)

COMPLETION DATA

COMPLETION

Straight wall ☑
Under reamed ☐
Gravel packed ☐
Open hole ☐
Other _____

CASING

Type: Old ☐ New ☑
Cemented from _____ ft.
to _____ ft.

Diameter (inches)	Setting from (ft)	Setting to (ft)
30 ID	1	42

SCREEN

Type _____
Perforated ☐ Slotted ☐

Diameter (inches)	Setting from (ft)	Setting to (ft)

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

George Combs (Signature) COMBS DRILLING SERVICE (Company Name) Reg. No. _____
BY EE

Please attach electric log, chemical analysis, and other pertinent information if available.

If well was tested by your company or if you installed the permanent pump please complete the following:

WATER LEVEL AND PUMP DATA

Static water level _____
ft. below _____

Pumping level feet	hours	gpm

Pump type _____
Designed pumping rate _____ gpm ☐ gph ☐
Type power unit _____
Horsepower _____
Depth to bowls, cylinder, jet, etc., _____ ft. below pump base.

Name of contractor testing well or installing permanent pump if other than your company: _____

C-34 (62-4)

48113002307

03/05/2024
05:03:39

Texas Commission on Environmental Quality
DWW Water System Summary Sheet

PWS ID	PWS Name	Central Registry RN
TX0570166	FORTERRA PRESSURE PIPE GRAND PRAIRIE	RN102597267

Organization/Customer *	Central Registry CN
FORTERRA PRESSURE PIPE INC	CN605125657

*Regulatory mail will be addressed to this organization/person

All Water System Contacts

Type	Contact	Communication	
AC - Administrative Contact - PLANT MANAGER	PIETERS, HEIN 1003 MACARTHUR BLVD GRAND PRAIRIE, TX 75050-7943	**Electronic Type**	**Value**
		Phone Type	**Value**
		BUS - Business	972-262-3600
		MOB - Mobile	972-262-3600
		EMERG - Emergency	682-300-3988
EC - Emergency Contact - MAINTENANCE SUPERVIS	CUDDY, STEVEN, R 1004 MACARTHUR BLVD GRAND PRAIRIE, TX 75050-7942	**Electronic Type**	**Value**
		Phone Type	**Value**
		BUS - Business	469-313-2563
		MOB - Mobile	817-404-6638
EC - Emergency Contact - PLANT MANAGER	PIETERS, HEIN 1003 MACARTHUR BLVD GRAND PRAIRIE, TX 75050-7943	**Electronic Type**	**Value**
		Phone Type	**Value**
		BUS - Business	972-262-3600
		MOB - Mobile	972-262-3600
		EMERG - Emergency	682-300-3988
ECS - Emergency Contact - Secondary - MAINTENANCE MANAGER	REYES, RAFAEL 1003 MACARTHUR BLVD GRAND PRAIRIE, TX 75050-7943	**Electronic Type**	**Value**
		Phone Type	**Value**
		BUS - Business	469-313-2516
		BUS - Business	214-998-1771
		MOB - Mobile	214-763-6576
		MOB - Mobile	214-998-1771
FC - Financial Contact - ACCOUNTS MANAGER	HUNTLEY, DERRICK 1003 MACARTHUR BLVD GRAND PRAIRIE, TX 75050-7943	**Electronic Type**	**Value**
		Phone Type	**Value**
		BUS - Business	972-262-3600
OW - Owner	FORTERRA PRESSURE PIPE INC 511 E JOHN CARPENTER FWY STE 600 IRVING, TX 75062-3930		
PWS - Public Water System Contact - MAINTENANCE MANAGER	REYES, RAFAEL 1003 MACARTHUR BLVD GRAND PRAIRIE, TX 75050-7943	**Electronic Type**	**Value**
		Phone Type	**Value**
		BUS - Business	469-313-2516
		BUS - Business	214-998-1771
		MOB - Mobile	214-763-6576
		MOB - Mobile	214-998-1771

Operator Grade	Number

Water Operator Licenses		
License Holder:	PALACIOS, RICARDO	
EXPIRED	Class: D - WATER OPERATOR	WO0037518

Owner Type	Owner Type Options: COUNTY, DISTRICT, FEDERAL GOVERNMENT, INVESTOR OWNED, MUNICIPALITY, NATIVE AMERICAN, PRIVATE, STATE GOVERNMENT, WATER SUPPLY CORPORATION
Private	

System Type	System Type Options: COMMUNITY, TRANSIENT/NON-COMMUNITY, NON-PUBLIC, NON-TRANSIENT/NON-COMMUNITY
NTNC - NON-TRANSIENT/NON-COMMUNITY	

Population Type	Population Served	# of Connect	# I/C w/other PWS
NonResidential	662	3	0

Total Product (MGD)	Average Daily Consump.	Max Daily Demand (MGD)	Total Storage (MG)	Elev. Storage (MG)	Service Pump Cap.	Max.Purchase Cap. (MGD/GPM)	Pressure Tank Cap. (MG)
0.6120 MGD	0.1340 MGD		.053 MG		1.152 MGD		0.004 MG

Activity Status	Inactivation Date
A - ACTIVE	

Last Survey Date	Surveyor	Survey Type	Region	County
08/28/2023	SALLY KAYLOR	Sanitary Survey	ARLINGTON	DALLAS
04/27/2017	DANIELA HILL	Sanitary Survey	ARLINGTON	DALLAS
06/28/2012	IMRAN, A KHAWAJA	Sanitary Survey	ARLINGTON	DALLAS

(Treatment Plant)							
Entry Point	EP Name/Source Summation (Activity Status)	Plant Name (Activity Status)	Plant Num	Chemical Mon Type	Chem Sample Point	Distribution Mon Type	Dist Sample Point
EP002	TRT-TAP / Ground Water(A)	SOUTH PLANT - 1004 N MACARTHUR BLVD(A)	TP2825		NO		NO

Train:	Unnamed

(Treatments)				
Disinfection Zone	Treatment Sequence	Objective	Process	Treatment
null	null	D	403	GASEOUS CHLORINATION, PRE

(Active Sources)						
Source Number	Source Name (Activity Status)	Operational Status	Source Type	Depth	Tested GPM	Rated GPM
G0570166C	3 - SOUTH PLANT (A)	P	G	1144	225 GPM	200 GPM
Drill Date	Source Summary					
01/01/1902	PALUXY					
GPS Latitude (decimal)	GPS Longitude (decimal)	GPS Elevation	GPS Date	Seller		
32.764978	-96.959042	0	01/13/2010	Not Purchasing		
Source Number	Source Name (Activity Status)	Operational Status	Source Type	Depth	Tested GPM	Rated GPM
G0570166D	4 - NORTH PLANT (A)	P	G	N/A	N/A	200 GPM
Drill Date	Source Summary					
12/29/2020						
GPS Latitude (decimal)	GPS Longitude (decimal)	GPS Elevation	GPS Date	Seller		
32.7673	-96.9588	0	07/06/2022	Not Purchasing		

(Inactive/Offline Sources)			
SourceNumber	Name	Status	Depth

Code Explanations
Monitoring Type Codes: (GW) GROUNDWATER , (GUP) GROUNDWATER UNDER THE INFLUENCE - PURCHASED , (SWP) SURFACE WATER - PURCHASED , (GU) GROUNDWATER UNDER THE INFLUENCE OF SURFACE WATER , (N) NO SOURCES , (SW) SURFACE WATER
Activity Status Codes: (A) ACTIVE , (D) DELETED/DISSOLVED , (I) INACTIVE , (P) PROPOSED ,
Operational Status Codes: (E) EMERGENCY , (I) INTERIM/PEAK (O) OTHER , (P) PERMANENT , (S) SEASONAL
Source Types: (G) GROUND WATER , (S) SURFACE WATER , (U) GROUND WATER UNDER THE INFLUENCE

- End of Report -

At the time of your query this data was the most current information available from our database, which is in real time. Every effort was made to retrieve it according to your query. Thank-you for using DWW.

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-708

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3309708
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.767778
Latitude (degrees minutes seconds)	32° 46' 04" N
Longitude (decimal degrees)	-96.958889
Longitude (degrees minutes seconds)	096° 57' 32" W
Coordinate Source	+/- 5 Seconds
Aquifer Code	212WDBN - Woodbine Sand
Aquifer	Woodbine
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	415
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	450
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1955
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Industrial
Water Level Observation	None
Water Quality Available	Yes
Pump	Turbine
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Gifford Hill American
Driller	J.L. Myers Sons
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 7/21/1975 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Woodbine Sand

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		422	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		514.99	mg/L	
00910	CALCIUM (MG/L)		2.2	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		35	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.4	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		6	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		0.36	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		3.1	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.2	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.3		
00955	SILICA, DISSOLVED (MG/L AS SI02)		9	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		45.7		
00932	SODIUM, CALCULATED, PERCENT		98	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		317	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1485	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		209	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		27	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		830	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-711

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3309711
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.7675
Latitude (degrees minutes seconds)	32° 46' 03" N
Longitude (decimal degrees)	-96.958889
Longitude (degrees minutes seconds)	096° 57' 32" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	218PLXY - Paluxy Sand
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	435
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	950
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	6/8/1955
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Plugged or Destroyed
Water Level Observation	None
Water Quality Available	No
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Hanson Presure Pipe Well #2
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0570166B
Groundwater Conservation District Well Number	
Owner Well Number	2
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Commission on Environmental Quality
Created Date	1/23/2012
Last Update Date	3/4/2020

Remarks	TCEQ reports well is plugged.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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STATE OF TEXAS WELL REPORT for Tracking #184538

Owner:	**Hanson Pressure Pipe**	Owner Well #:	**3**
Address:	**1003 N. McArthur Grand Prairie, TX 75050**	Grid #:	**33-09-7**
		Latitude:	**32° 45' 54" N**
Well Location:	**1003 N. McArthur Grand Prairie, TX 75050**	Longitude:	**096° 57' 32" W**
Well County:	**Dallas**	Elevation:	**440 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Public Supply**

Drilling Start Date: **3/2/2009** Drilling End Date: **6/10/2009** **Plans Approved by TCEQ - YES**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**18**	**0**	**35**
	12.25	**0**	**1158**

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed; Under-reamed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**968**	**1145**	**Gravel**	

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**35**	**20 cement**
	0	**968**	**300 H + 2% gel**

Seal Method: **Pump Down Plug**

Sealed By: **Quasar Energy Services**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Engineer**

Surface Completion: **Surface Slab Installed**

Water Level: **424 ft.** below land surface on **2009-04-20** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **850**

Well Tests: **Pump** **Yield: 204 GPM with 140 ft. drawdown after 36 hours**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **Yes**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **J.L. Myers Company**

PO Box 1659
Terrell, TX 75160

Driller Name: **Michael Raulston** License Number: **4790**

Apprentice Name: **Christopher Fugate** Apprentice Number: **57760**

Comments: **TWDB SW #33-09-712 Doc Jones 1/23/2012**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	30	Allovial sand & gravel
30	130	Shale
130	160	Broken sand & shale
160	255	Shale
255	310	Sand
310	390	Shale sand streaks
390	450	Sand
450	820	Shale, lime streaks
820	860	Shale
860	920	Limestone, shale streaks
920	1020	Sand with shale streaks
1020	1075	Shale
1075	1155	Sand
1155	1160	Lime & Shale

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
14	N	Steel	0 35
8 5/8	N	Steel	+6 35
4 1/2	N	Steel	905 982
4 1/2	N	SS WW Screen	982 1024
4 1/2	N	Blank	1024 1078
4 1/2	N	SS WW Screen	1078 1100
4 1/2	N	Blank	1100 1130
4 1/2	N	SS WW Screen	1130 1144
4 1/2	N	Blank	1144 1158

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #571545

Owner:	**Thompson Pipe Group**	Owner Well #:	**4**
Address:	**1004 MacArthur Blvd Grand Prarie, TX 75050**	Grid #:	**33-09-7**
Well Location:	**1004 MacArthur Blvd Grand Prarie, TX 75050**	Latitude:	**32° 46' 02.28" N**
		Longitude:	**096° 57' 31.68" W**
Well County:	**Dallas**	Elevation:	**434 ft. above sea level**
Type of Work:	**Replacement**	Proposed Use:	**Public Supply**

Drilling Start Date: **12/16/2020** Drilling End Date: **12/29/2020**

Plans Approved by TCEQ - YES
PWS# 0570166

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**12.25**	**0**	**450**

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**355**	**450**	**Sand**	**8/16**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**355**	**Cement 125 Bags/Sacks**

Seal Method: **Pressure**

Sealed By: **Driller**

Distance to Property Line (ft.): **360**

Distance to Septic Field or other concentrated contamination (ft.): **150+**

Distance to Septic Tank (ft.): **n/a**

Method of Verification: **Map**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **185 ft.** below land surface on **2021-01-27** Measurement Method: **Sonic/Radar**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **357**

Well Tests: **Pump** **Yield: 200 GPM with 20 ft. drawdown after 36 hours**

	Strata Depth (ft.)	Water Type
Water Quality:	**360 - 448**	**Fresh**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Erwin Water Well Drilling**

6991 FM 4
Jacksboro, TX 76458

Driller Name: **Robert Brent Erwin** License Number: **60444**

Comments: **Drilled for Priceless Water Well Service**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	2	Rock pad
2	6	Yellow sand rock
6	13	Clay
13	19	Sand and gravel
19	128	Gray shale
128	176	Sand w/gray shale
176	360	Gray shale
360	395	Gray shale w/sand layers
395	448	Sand
448	450	Gray shale

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
8	Blank	New Plastic (PVC)	SDR17	0	360
8	Perforated or Slotted	New Plastic (PVC)	SDR17 0.020	360	450

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

56 Map

GW 7

Send original copy by certified mail to the Texas Water Development Board P. O. Box 12386 Austin, Texas 78711

State of Texas

WATER WELL REPORT

For TWDB use only
Well No. 53-07-5E
Located on map Yes
Received: 77
Form GW 8
Form GW 9

1) OWNER:
Person having well drilled Bill Harris (Name) Address 809 Rindicott Irving Texas (Street or RFD) (City) (State)

Landowner Same (Name) Address 809 Rindicott (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Dallas Labor _____ League _____ Abstract No. _____

NW¼ NE¼ SW¼ SE¼ of Section _____ Block No. _____ Survey _____
(Circle as many as are known)

miles in _____ (NE, SW, etc.) direction from _____ (Town).

NORTH

Sketch map of well location with distances from adjacent section or survey lines, and to landmarks, roads, and creeks.

3) TYPE OF WORK (Check):
New Well ☑ Deepening ☐
Reconditioning ☐ Plugging ☐

4) PROPOSED USE (Check):
Domestic ☐ Industrial ☐ Municipal ☐
Yard Well
Irrigation ☑ Test Well ☐ Other ☑

5) TYPE OF WELL (Check):
Rotary ☑ Driven ☐ Dug ☐
Cable ☐ Jetted ☐ Bored ☐

6) WELL LOG:
Diameter of hole 8" in. Depth drilled 31 ft. Depth of completed well 31 ft. Date drilled 4/[illegible]

All measurements made from 0 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material	From (ft.)	To (ft.)	Description and color of formation material
0	25	Clay			
25	28	Gravel			
28	31'	Blue Shale			
		(Yard Well)			
					(Use reverse side if necessary)

7) COMPLETION (Check):
Straight wall ☐ Gravel packed ☑ Other ☐
Under reamed ☐ Open hole ☐

8) WATER LEVEL:
Static level _____ ft. below land surface Date _____
Artesian pressure _____ lbs. per square inch Date _____

9) CASING:
Type: old ☐ New ☑ Steel ☑ Plastic ☐ Other ☐
Cemented from _____ ft. to _____ ft.

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Gage
4"	0	31'	9 1/2#

10) SCREEN:
Type _____
Perforated ☐ Slotted ☐

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Slot size

11) WELL TESTS:
Was a pump test made? ☐ Yes ☐ No If yes by whom?

Yield: _____ gpm with _____ ft. drawdown after _____ hrs
Bailer test _____ gpm with _____ ft. drawdown after _____ hrs
Artesian flow _____ gpm Date _____
Temperature of water _____
Was a chemical analysis made? ☐ Yes ☐ No
Did any strata contain undesirable water? ☐ Yes ☐ No
Type of water? _____ depth of strata _____

12) PUMP DATA:
Manufacturer's Name _____
Type _____ H.P. _____
Designed pumping rate _____ gpm ☐ gph ☐
Type power unit _____
Depth to bowls, cylinder, jet, etc., _____ ft. below land surface.

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME A. B. Hoipkemeier (Type or Print) Water Well Drillers Registration No. 112

Address PO Box 516 (Street or RFD) Irving (City) Texas 75060 (State)

(Signed) A. B. Hoipkemeier (Water Well Driller) A. B. Hoipkemeier Drilling Co. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

4811300266

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-503

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3309503
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.813056
Latitude (degrees minutes seconds)	32° 48' 47" N
Longitude (decimal degrees)	-96.945278
Longitude (degrees minutes seconds)	096° 56' 43" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	218TWMT - Twin Mountains Formation
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	487
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	2284
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	0/0/1945
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Plugged or Destroyed
Water Level Observation	None
Water Quality Available	Yes
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	City of Irving Well #1
Driller	J.L. Myers Sons
Other Data Available	Drillers Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	1
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	10/17/1956
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 4/19/1947 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Municipal Water Agency or Public Water Supply Corp

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: from well

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		20	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		440	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		488.14	mg/L	
00910	CALCIUM (MG/L)		13	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		24	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		110	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		40	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		1600	ug/L	
00920	MAGNESIUM (MG/L)		2	mg/L	
01055	MANGANESE, TOTAL (UG/L AS MN)	<	50	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		3	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.5	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.99		
00955	SILICA, DISSOLVED (MG/L AS SI02)		12	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		28.45		
00932	SODIUM, CALCULATED, PERCENT		95	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)	calculated	417	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		299	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1122	mg/L	

Water Quality Analysis

Sample Date: 3/1/1952 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Municipal Water Agency or Public Water Supply Corp

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: from well

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		10	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		430	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		500.34	mg/L	
00910	CALCIUM (MG/L)		32	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		12	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		108	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.4	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		96	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		520	ug/L	
00920	MAGNESIUM (MG/L)		4	mg/L	
01055	MANGANESE, TOTAL (UG/L AS MN)	<	50	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.5	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		6.67		
00955	SILICA, DISSOLVED (MG/L AS SI02)		24	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		14.81		
00932	SODIUM, CALCULATED, PERCENT		88	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		334	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		245	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1007	mg/L	

Water Quality Analysis

Sample Date: 1/1/1953 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Municipal Water Agency or Public Water Supply Corp

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: Texas Department of Health **Reliability:** From a report; unknown sample collection & preservation

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		425	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		518.65	mg/L	
00910	CALCIUM (MG/L)		12	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		99	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		46	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		210	ug/L	
00920	MAGNESIUM (MG/L)		4	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		0	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.3	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.57		
00955	SILICA, DISSOLVED (MG/L AS SI02)		32	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		24.33		
00932	SODIUM, CALCULATED, PERCENT		94	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		381	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		293	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1078	mg/L	

Water Quality Analysis

Sample Date: 2/1/1954 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Municipal Water Agency or Public Water Supply Corp

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: Texas Department of Health **Reliability:** From a report; unknown sample collection & preservation

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		465	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		567.46	mg/L	
00910	CALCIUM (MG/L)		4	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		124	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.2	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		18	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		9400	ug/L	
00920	MAGNESIUM (MG/L)		2	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.3	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.94		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		48.01		
00932	SODIUM, CALCULATED, PERCENT		98	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		471	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		386	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1268	mg/L	

Water Quality Analysis

Sample Date: 2/27/1961 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Municipal Water Agency or Public Water Supply Corp

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: Texas Department of Health **Reliability:** Reliability unknown or not available

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		320	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		390.51	mg/L	
00910	CALCIUM (MG/L)		46	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		90	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.8	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		201	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		210	ug/L	
00920	MAGNESIUM (MG/L)		21	mg/L	
01055	MANGANESE, TOTAL (UG/L AS MN)	<	50	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		0.97	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.1	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		2.38		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		19.01		
00932	SODIUM, CALCULATED, PERCENT		87	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		620	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		3345	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		950	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1921	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-509

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3309509
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.814167
Latitude (degrees minutes seconds)	32° 48' 51" N
Longitude (decimal degrees)	-96.947778
Longitude (degrees minutes seconds)	096° 56' 52" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	212WDBN - Woodbine Sand
Aquifer	Woodbine
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	486
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	494
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	0/0/1939
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Plugged or Destroyed
Water Level Observation	None
Water Quality Available	Yes
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	City of Irving Old well #2
Driller	J.L. Myers Sons
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	Old #2
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	5/28/1975
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 8/13/1942 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Other Federal Agencies

Sampled Aquifer: Woodbine Sand

Analyzed Lab: University of Texas **Reliability:** Reliability unknown or not available

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		519.52	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		633.99	mg/L	
00910	CALCIUM (MG/L)	<	2	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		155	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		11	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		1.5	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		1	mg/L as NO3	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		10.17		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		94.17		
00932	SODIUM, CALCULATED, PERCENT		99	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		621	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		591	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1683	mg/L	

Water Quality Analysis

Sample Date: 4/19/1947 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Department of Health

Sampled Aquifer: Woodbine Sand

Analyzed Lab: Texas Department of Health **Reliability:**

Collection Remarks: at well

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		495	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		604.07	mg/L	
00910	CALCIUM (MG/L)		11	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		149	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.2	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		39	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		2800	ug/L	
00920	MAGNESIUM (MG/L)		3	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		0.7	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.2	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		9.1		
00955	SILICA, DISSOLVED (MG/L AS SI02)		25	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		39.03		
00932	SODIUM, CALCULATED, PERCENT		96	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		566	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		543	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1596	mg/L	

Water Quality Analysis

Sample Date: 3/1/1952 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Department of Health

Sampled Aquifer: Woodbine Sand

Analyzed Lab: Texas Department of Health **Reliability:**

Collection Remarks: at well

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		10	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		490	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		573.56	mg/L	
00910	CALCIUM (MG/L)		34	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		12	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		149	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.4	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		97	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		950	ug/L	
00920	MAGNESIUM (MG/L)		3	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.4	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.86		
00955	SILICA, DISSOLVED (MG/L AS SI02)		16	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		22.06		
00932	SODIUM, CALCULATED, PERCENT		91	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)	calculated	500	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		519	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1517	mg/L	

Water Quality Analysis

Sample Date: 1/1/1953 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Municipal Water Agency or Public Water Supply Corp

Sampled Aquifer: Woodbine Sand

Analyzed Lab: Texas Department of Health **Reliability:** Reliability unknown or not available

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		438	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		534.51	mg/L	
00910	CALCIUM (MG/L)		9	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		107	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		34	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		5200	ug/L	
00920	MAGNESIUM (MG/L)		3	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.3	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.06		
00955	SILICA, DISSOLVED (MG/L AS SI02)		59	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		26.47		
00932	SODIUM, CALCULATED, PERCENT		95	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		359	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		219	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1021	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-510

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3309510
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.813889
Latitude (degrees minutes seconds)	32° 48' 50" N
Longitude (decimal degrees)	-96.945
Longitude (degrees minutes seconds)	096° 56' 42" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	212WDBN - Woodbine Sand
Aquifer	Woodbine
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	488
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	397
Well Depth Source	Owner
Drilling Start Date	
Drilling End Date	0/0/1924
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Plugged or Destroyed
Water Level Observation	None
Water Quality Available	Yes
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	City of Irving Old well #3
Driller	Stanley
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	Old #3
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	5/28/1975
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 8/14/1939 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Municipal Water Agency or Public Water Supply Corp

Sampled Aquifer: Woodbine Sand

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: from well

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		15	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		575	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		665.09	mg/L	
00910	CALCIUM (MG/L)		12	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		18	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		172	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.1	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		91	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		450	ug/L	
00920	MAGNESIUM (MG/L)		15	mg/L	
01055	MANGANESE, TOTAL (UG/L AS MN)	<	10	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.5	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		9.67		
00955	SILICA, DISSOLVED (MG/L AS SI02)		16	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		24.85		
00932	SODIUM, CALCULATED, PERCENT		92	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)	calculated	547	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		497	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1606	mg/L	

Water Quality Analysis

Sample Date: 8/15/1939 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Other or Identity Unknown

Sampled Aquifer: Woodbine Sand

Analyzed Lab: Laboratory Unknown **Reliability:** Reliability unknown or not available

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
01045	IRON, TOTAL (UG/L AS FE)		500	ug/L	
01055	MANGANESE, TOTAL (UG/L AS MN)		100	ug/L	

Water Quality Analysis

Sample Date: 8/13/1942 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Other Federal Agencies

Sampled Aquifer: Woodbine Sand

Analyzed Lab: University of Texas **Reliability:** Reliability unknown or not available

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		554.76	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		677	mg/L	
00910	CALCIUM (MG/L)		10	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		182	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.6	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		40	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		3.9	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		1.5	mg/L as NO3	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		10.28		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		42.05		
00932	SODIUM, CALCULATED, PERCENT		97	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		622	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		554	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1707	mg/L	

Water Quality Analysis

Sample Date: 1/1/1953 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Municipal Water Agency or Public Water Supply Corp

Sampled Aquifer: Woodbine Sand

Analyzed Lab: Texas Department of Health **Reliability:** Reliability unknown or not available

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		500	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		610.17	mg/L	
00910	CALCIUM (MG/L)		13	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		156	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.8	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		48	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		900	ug/L	
00920	MAGNESIUM (MG/L)		4	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.3	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		9.02		
00955	SILICA, DISSOLVED (MG/L AS SI02)		29	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		33.53		
00932	SODIUM, CALCULATED, PERCENT		95	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		539	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		523	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1566	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.

33095V GW 7

Send original copy by certified mail to the Texas Water Development Board P. O. Box 12386 Austin, Texas 78711

State of Texas

WATER WELL REPORT

For TWDB use only
Well No. 33-89-5V
Located on map Yes
Received: 77
Form GW 8
Form GW 9

1) OWNER:
Person having well drilled Morris F. Taylor (Name) Address 1106 Union Bower (Street or RFD) Irving (City) Texas (State)

Landowner Same (Name) Address (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Dallas Labor League Abstract No.

NW¼ NE¼ SW¼ SE¼ of Section Block No. Survey
(Circle as many as are known)

miles in (NE, SW, etc.) direction from (Town).

NORTH

Sketch map of well location with distances from adjacent section or survey lines, and to landmarks, roads, and creeks.

3) TYPE OF WORK (Check):
New Well ☑ Deepening ☐
Reconditioning ☐ Plugging ☐

4) PROPOSED USE (Check):
Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☑ Test Well ☐ Other ☐

5) TYPE OF WELL (Check):
Rotary ☐ Driven ☐ Dug ☐
Cable ☐ Jetted ☐ Bored ☐

6) WELL LOG:
Diameter of hole 6 3/4" in. Depth drilled 40 ft. Depth of completed well 40' ft. Date drilled 6/72

All measurements made from 0 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material	From (ft.)	To (ft.)	Description and color of formation material
0	22	Yellow Clay			
22	31	Yellow Sand			
31	38	Sandy Gravel			
38	40	Blue Shale			
		(Yard Well)			

(Use reverse side if necessary)

7) COMPLETION (Check):
Straight wall ☐ Gravel packed ☑ Other ☐
Under reamed ☐ Open hole ☐

8) WATER LEVEL:
Static level ft. below land surface Date
Artesian pressure lbs. per square inch Date

9) CASING:
Type: old ☐ New ☑ Steel ☑ Plastic ☐ Other ☐
Cemented from ft. to ft.

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Gage
6 1/4	0	40'	

10) SCREEN:
Type
Perforated ☐ Slotted ☐

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Slot size

11) WELL TESTS:
Was a pump test made? ☐ Yes ☐ No If yes by whom?

Yield: gpm with ft. drawdown after hrs
Bailer test gpm with ft. drawdown after hrs
Artesian flow gpm Date
Temperature of water
Was a chemical analysis made? ☐ Yes ☐ No
Did any strata contain undesirable water? ☐ Yes ☐ No
Type of water? depth of strata

12) PUMP DATA:
Manufacturer's Name
Type H.P.
Designed pumping rate gpm ☐ gph ☐
Type power unit
Depth to bowls, cylinder, jet, etc., ft. below land surface.

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME A. B. Hoipkemeier (Type or Print) Water Well Drillers Registration No. 112

Address P.O. Box 516 (Street or RFD) Irving (City) Texas 75060 (State)

(Signed) A. B. Hoipkemeier (Water Well Driller) A. B. Hoipkemeier Drlng Co (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

4811300277

STATE OF TEXAS WELL REPORT for Tracking #151902

Owner:	**Comerica Bank**	Owner Well #:	**1**
Address:	**1308 West Mockingbird Lane Dallas, TX**	Grid #:	**33-10-4**
Well Location:	**1308 West Mockingbird Lane Dallas, TX**	Latitude:	**32° 49' 18" N**
		Longitude:	**096° 51' 41" W**
Well County:	**Dallas**	Elevation:	**420 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Industrial**

Drilling Start Date: **8/20/2008** Drilling End Date: **8/25/2008**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8.75**	**0**	**750**

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed; Straight Wall**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**640**	**750**	**Gravel**	**8 - 16**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**2**	**3**
	2	**215**	**40 sx portland**
	625	**640**	**11 sx holeplug**

Seal Method: **tremie and mix and pour**

Sealed By: **SWWS**

Distance to Property Line (ft.): **60**

Distance to Septic Field or other concentrated contamination (ft.): **none**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **visual**

Surface Completion: **Surface Slab Installed**

Water Level: **279 ft.** below land surface on **2008-08-27** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **483**

Well Tests: **Jetted** **Yield: 150+ GPM with 0 ft. drawdown after unspecified hours**

	Strata Depth (ft.)	Water Type
Water Quality:	**690**	**clear**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Sweet-Water Well Service**

P O Box 584
Keller, TX 76244

Driller Name: **Travis Hazlewood** License Number: **54244**

Apprentice Name: **Brian Kelley** Apprentice Number: **58062**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**10**	**surface fill**
10	**438**	**grey shale**
438	**680**	**limey shale**
680	**745**	**sand grey with white streaks**
745	**750**	**hard sandy shale grey**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4	**new**	**steel**	**+1 to 750**
4	**new**	**stainless screen**	**695 740 .020"**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

33095F

GW 7

Send original copy by certified mail to the Texas Water Development Board P. O. Box 12386 Austin, Texas 78711

State of Texas

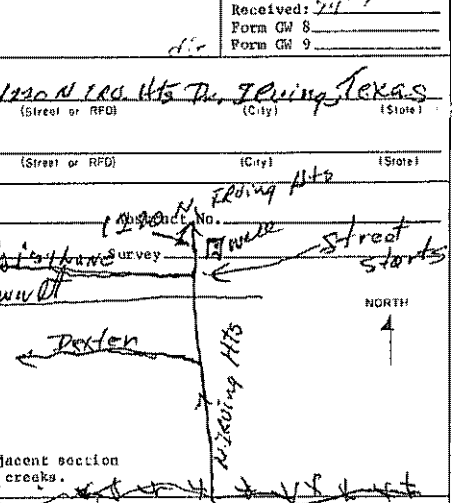
WATER WELL REPORT

For TWDB use only
Well No. 33-09-5F
Located on map
Received: 74
Form GW 8
Form GW 9

1) OWNER:
Person having well drilled Mr J. Dickens (Name) Address 1220 N 120 Hts Dr. Irving Texas (Street or RFD) (City) (State)

Landowner SA Me (Name) Address (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Dallas Labor League Abstract No.
NW¼ NE¼ SW¼ SE¼ of Section Block No. Survey
(Circle as many as are known)
5½ miles in NE (NE, SW, etc.) direction from Irving Irving Hts



Sketch map of well location with distances from adjacent section or survey lines, and to landmarks, roads, and creeks.

3) TYPE OF WORK (Check):
New Well ☐ Deepening ☐
Reconditioning ☐ Plugging ☐

4) PROPOSED USE (Check):
Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

5) TYPE OF WELL (Check):
Rotary ☐ Driven ☐ Dug ☐
Cable ☐ Jetted ☐ Bored ☐

6) WELL LOG:
Diameter of hole 7½" in. Depth drilled 27 ft. Depth of completed well 27 ft. Date drilled 3-20-79

All measurements made from 0 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material	From (ft.)	To (ft.)	Description and color of formation material
0	16	Sandy Loam			
16	23	Coarse Sand			
23'	25'	Gravel			
25'	27'	Blue Shale (Hard Mud)			

(Use reverse side if necessary)

7) COMPLETION (Check):
Straight wall ☐ Gravel packed ☑ Other ☐
Under reamed ☐ Open hole ☐

8) WATER LEVEL:
Static level ____ ft. below land surface Date
Artesian pressure ____ lbs. per square inch Date

9) CASING:
Type: old ☐ New ☑ Steel ☐ Plastic ☑ Other ☐
Cemented from ____ ft. to ____ ft.

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Gage
7½	0	27½	Plastic

10) SCREEN:
Type
Perforated ☐ Slotted ☐

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Slot size

11) WELL TESTS:
Was a pump test made? ☐ Yes ☐ No If yes by whom?
Yield: ____ gpm with ____ ft. drawdown after ____ hrs
Bailer test ____ gpm with ____ ft. drawdown after ____ hrs
Artesian flow ____ gpm Date
Temperature of water
Was a chemical analysis made? ☐ Yes ☐ No
Did any strata contain undesirable water? ☐ Yes ☐ No
Type of water? ____ depth of strata

12) PUMP DATA:
Manufacturer's Name
Type ____ H.P.
Designed pumping rate ____ gpm ☐ gph ☐
Type power unit
Depth to bowls, cylinder, jet, etc., ____ ft. below land surface.

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME A. B. Hoipkemeier (Type or Print) Water Well Drillers Registration No. 112

Address P.O. Box 516 (Street or RFD) Irving (City) Texas (State)

(Signed) A. B. Hoipkemeier (Water Well Driller) Hoipkemeier Drlng Co. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

4811300262

33-09SM. 5M

File original copy with
Texas Water Commission
P. O. Box 2311, Capitol Station
Austin 11, Texas

State of Texas

DRILLERS LOG AND WELL DATA REPORT

For use by TWC only
Well No. 33-09-5M
Located on map 415
By [illegible] Date 76
Map no.

1) Well Owner: Dr. Giles (Name) 1111 Irving Heights Dr. (Street or RFD) Irving (City) Tex. (State)

2) Land Owner: Same (Name) (Street or RFD) (City) (State)

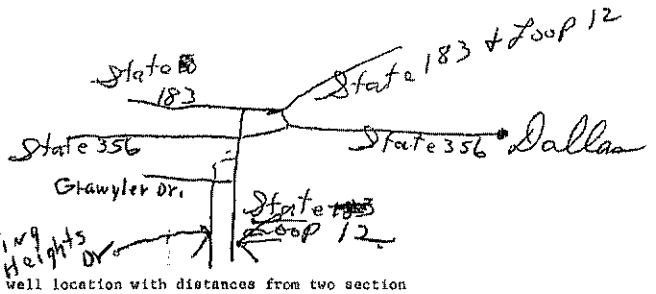
3) Intended use: Industrial ☐ Municipal ☐ Irrigation ☑ Other ~~Household~~ Lawn Sprinkling

4) Location of well: County Dallas Labor ____ League ____ Abstract No. ____

NW¼ NE¼ SW¼ SE¼ of Section ____ Block No. ____ Survey ____
(Circle as many as are known)

____ miles in ____ (NE, SW, etc.) direction
from ____ (Town)

1111 Irving Heights Dr.
in City of Irving



Sketch map of well location with distances from two section or survey lines, and to landmarks, roads, and creeks.

DRILLERS LOG OF WELL

Method of drilling: Rotary Diameter of hole 36 in. Date drilled 5-26-6x

All measurements made from 0 ft. above ground level.

From (ft)	To (ft)	Description and color of formation material	From (ft)	To (ft)	Description and color of formation material
1	5	Brown Sandy Topsoil			
5	25	Brown Sandy Clay			
25	35	Brown Clayey Sand			
35	40	Water, Sand + Gravel			
40	50	Blue Shale			
					(Use continuation sheets if necessary)

COMPLETION DATA

COMPLETION

Straight wall ☑
Under reamed ☐
Gravel packed ☑
Open hole ☐
Other ____

Concrete CASING

Type: Old ☐ New ☑
Cemented from ____ ft.
to ____ ft.

Diameter (inches)	Setting from (ft)	Setting to (ft)
30 ID	1	50

SCREEN

Type ____
Perforated ☐ Slotted ☐

Diameter (inches)	Setting from (ft)	Setting to (ft)

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

George Combs (Signature) COMBS DRILLING SERVICE (Company Name) Reg. No. ____
BYEE

Please attach electric log, chemical analysis, and other pertinent information if available.

If well was tested by your company or if you installed the permanent pump please complete the following:

WATER LEVEL AND PUMP DATA

Static water level ____
ft. below ____

Pumping level feet	hours	gpm

Pump type ____
Designed pumping rate ____ gpm ☐ gph ☐
Type power unit ____
Horsepower ____
Depth to bowls, cylinder, jet, etc., ____ ft. below pump base.

Name of contractor testing well or installing permanent pump if other than your company: ____

C-34 (62-4)

4811300268

53096A

end original copy by
ertified mail to the
exas Water Development Board
. O. Box 12386
ustin, Texas 78711

State of Texas

WATER WELL REPORT

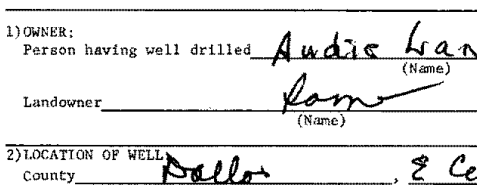
For TWDB use only
Well No. 33-09-6A
Located on map Vol. 5
Received: 69
dlr

1) OWNER:
Person having well drilled Audie Langley (Name) Address 1021 Brookhollow (Street or RFD) Irving, (City) Texas (State)

Landowner Same (Name) Address Same (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Dallas, 8 Centr miles in (N.E., S.W., etc.) direction from Irving, Tex (Town)

Locate by sketch map showing landmarks, roads, creeks, hiway number, etc.*



(Use reverse side if necessary)

or Give legal location with distances and directions from adjacent sections or survey lines.

Labor _____ League _____

Block _____ Survey _____

Abstract No. _____

(NW¼ NE¼ SW¼ SE¼) of Section _____

3) TYPE OF WORK (Check):
New Well ✓ Deepening
Reconditioning Plugging

4) PROPOSED USE (Check):
Domestic Industrial Municipal
Irrigation Test Well Other (yard Well)

5) TYPE OF WELL (Check):
Rotary ✓ Driven Dug
Cable Jetted Bored

6) WELL LOG:
Diameter of hole 9 in. Depth drilled 30 ft. Depth of completed well 30' ft. Date drilled 6-25-69

All measurements made from 0 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0	4'	Loam
4'	16'	Yellow Clay
16'	24	Sand yellow
24	28	Gravel Shale Rock
28	30	Blue Shale

(Use reverse side if necessary)

9) Casing:
Type: Old ✓ New Steel Plastic Other
Cemented from _____ ft. to _____ ft.

Diameter (inches)	Setting From (ft.)	To (ft.)	Gage
5½	0	30	13#

10) SCREEN:
Type _____
Perforated Slotted

Diameter (inches)	Setting From (ft.)	To (ft.)	Slot Size

7) COMPLETION (Check):
Straight wall Gravel packed ✓ Other
Under reamed Open Hole

8) WATER LEVEL:
Static level _____ ft. below land surface Date _____
Artesian pressure _____ lbs. per square inch Date _____
Depth to pump bowls, cylinder, jet, etc., _____ ft. below land surface.

11) WELL TESTS:
Was a pump test made? Yes No If yes, by whom?
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.
Bailer test _____ gpm with _____ ft. drawdown after _____ hrs.
Artesian flow _____ gpm
Temperature of water _____

12) WATER QUALITY:
Was a chemical analysis made? Yes No
Did any strata contain undesirable water? Yes No
Type of water? _____ depth of strata _____

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME A.B. Hoyhemier (Type or print) Water Well Drillers Registration No. 112

ADDRESS 4445 W Highway 183 (Street or RFD) Lansing (City) Texas (State)

(Signed) _____ (Water Well Driller) _____ (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

TWDBE-GW-53

(2)

33095K GW 7

Send original copy by certified mail to the Texas Water Development Board P. O. Box 12386 Austin, Texas 78711

State of Texas

WATER WELL REPORT

For TWDB use only
Well No. 33-89-5X
Located on map Yes
Received: 73
Form GW 8
Form GW 9

1) OWNER:
Person having well drilled C. R. Parrish (Name) Address 431 N. Riley Hts, Irving, Texas (Street or RFD) (City) (State)

Landowner None (Name) Address — (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Dallas Labor ____ League ____ Abstract No. ____

NW¼ NE¼ SW¼ SE¼ of Section ____ Block No. ____ Survey ____
(Circle as many as are known)

miles in ____ (NE, SW, etc) direction from ____ (Town)

NORTH

Yard well (Mid East old Irving)

Sketch map of well location with distances from adjacent section or survey lines, and to landmarks, roads, and creeks.

3) TYPE OF WORK (Check):
New Well ☑ Deepening ☐
Reconditioning ☐ Plugging ☐

4) PROPOSED USE (Check):
Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

5) TYPE OF WELL (Check):
Rotary ☐ Driven ☐ Dug ☐
Cable ☐ Jetted ☐ Bored ☐

6) WELL LOG:
Diameter of hole 7⅞ in. Depth drilled 42' ft. Depth of completed well 42 ft. Date drilled 6-3-73

All measurements made from 0 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material	From (ft.)	To (ft.)	Description and color of formation material
0-35		topsoil yellow clay			
35-41		sand & gravel			
41-42		shale			
					(Use reverse side if necessary)

7) COMPLETION (Check):
Straight wall ☑ Gravel packed ☑ Other ☐
Under reamed ☐ Open hole ☐

8) WATER LEVEL:
Static level ____ ft. below land surface Date ____
Artesian pressure ____ lbs. per square inch Date ____

9) CASING:
Type: old ☐ New ☑ Steel ☐ Plastic ☑ Other ☐
Cemented from ____ ft. to ____ ft.

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Gage
8-5/8	0 - 43'	43'	

10) SCREEN:
Type ____
Perforated ☐ Slotted ☐

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Slot size

11) WELL TESTS:
Was a pump test made? ☐ Yes ☐ No If yes by whom?

Yield: ____ gpm with ____ ft. drawdown after ____ hrs
Bailer test ____ gpm with ____ ft. drawdown after ____ hrs
Artesian flow ____ gpm Date ____
Temperature of water ____
Was a chemical analysis made? ☐ Yes ☐ No
Did any strata contain undesirable water? ☐ Yes ☐ No
Type of water? ____ depth of strata ____

12) PUMP DATA:
Manufacturer's Name ____
Type ____ H.P. ____
Designed pumping rate ____ gpm ☐ gph ☐
Type power unit ____
Depth to bowls, cylinder, jet, etc., ____ ft. below land surface.

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME A. B. Hopkemeier Drlg Co (Type or Print) Water Well Drillers Registration No. 112

Address Box 516 Irving, Texas 75060 (Street or RFD) (City) (State)

(Signed) A. B. Hopkemeier (Water Well Driller) A. B. Hopkemeier Drlg Co. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

4811300279

Send original copy by certified mail to the Texas Water Development Board P. O. Box 12386 Austin, Texas 78711

State of Texas

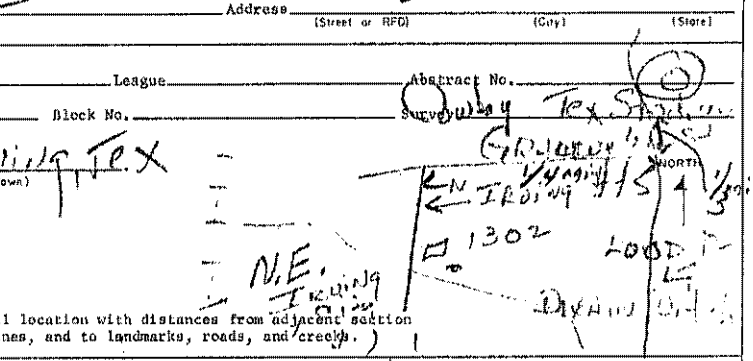
WATER WELL REPORT

For TWDB use only
Well No. 33-09-5A
Located on map yes
Received: 76
Form GW 8
Form GW 9

1) OWNER:
Person having well drilled: Glenn Horton (Name) Address: 1302 N. Irving Hts. (Street or RFD) Irving (City) Tex (State)

Landowner: Same (Name) Address: — (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County: Dallas Labor: League: Abstract No.:
NW¼ NE¼ SW¼ SE¼ of Section: Block No.: Survey: Tex. State
(Circle as many as are known)
miles in (NE, SW, etc.) direction from (Town): N.E. Irving, Tex.



Sketch map of well location with distances from adjacent section or survey lines, and to landmarks, roads, and creeks.

3) TYPE OF WORK (Check): New Well ☒ Deepening ☐ Reconditioning ☐ Plugging ☐

4) PROPOSED USE (Check): Domestic ☐ Industrial ☐ Municipal ☐ Irrigation ☒ Test Well ☐ Other ☐

5) TYPE OF WELL (Check): Rotary ☒ Driven ☐ Dug ☐ Cable ☐ Jetted ☐ Bored ☐

6) WELL LOG:
Diameter of hole — in. Depth drilled — ft. Depth of completed well — ft. Date drilled 4/20/76
All measurements made from — ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material	From (ft.)	To (ft.)	Description and color of formation material
0	4	Surface Loam			Brown
4	10	Fn. Hd. Sd. Brown			Reddish Gray
10	25	Coarse Sd.			Crystal
25	27	Dry Gravel			Light white
27	29	Blue Shale			(Use reverse side if necessary)

7) COMPLETION (Check): Straight wall ☐ Gravel packed ☒ Other ☐ Under reamed ☐ Open hole ☐

8) WATER LEVEL: Static level — ft. below land surface Date — Artesian pressure — lbs. per square inch Date —

9) CASING: Type: old ☐ New ☐ Steel ☒ Plastic ☐ Other ☐
Cemented from 0 ft. to 2 ft.

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Gage
2" I.D.	0	27	

10) SCREEN: Type: Perforated Casing
Perforated ☒ Slotted ☐

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Slot size
Perf. Casing	23	29'	3/16"

11) WELL TESTS:
Was a pump test made? ☒ Yes ☐ No If yes by whom? A. Crop
Yield: 28 gpm with 4 ft. drawdown after 2 hrs
Bailer test 4½ gpm with 0 ft. drawdown after 1 hrs
Artesian flow — gpm Date 4/20/76
Temperature of water 69
Was a chemical analysis made? ☐ Yes ☒ No
Did any strata contain undesirable water? ☐ Yes ☐ No
Type of water? Hard Clay Depth of strata 20-27

12) PUMP DATA:
Manufacturer's Name McDonald
Type Multi Stage Centrif. H.P. 1½
Designed pumping rate 30 gpm ☐ gph ☐
Type power unit Gas
Depth to bowls, cylinder, jet, etc., Bottom 29 ft. below land surface.

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME A.B. Hopkins Drilling Co. (Type or Print) Water Well Drillers Registration No. 112

Address Po Box 516 (Street or RFD) Irving (City) Texas 75060 (State)

(Signed) A.B. Hopkins (Water Well Driller) A.B. Hopkins Drilling Co. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

4811300270

33095F ①

Send original copy by certified mail to the Texas Water Development Board P. O. Box 12386 Austin, Texas 78711

State of Texas

WATER WELL REPORT

For TWDB use only
Well No. 33-09-5 F
Located on map
Received: 6-

1) OWNER:
Person having well drilled Lee N. Clark (Name) Address 1215 N. Irving Hts, Irving Tex (Street or RFD) (City) (State)

Landowner Same (Name) Address Same (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Dallas. N. Central miles in (N.E., S.W., etc.) direction from Irving Tex. (Town)

Locate by sketch map showing landmarks, roads, creeks, hiway number, etc.* Grayson Rd

Well ☒ 1 Block North Irving Hts Drive

(Use reverse side if necessary)

or

Give legal location with distances and directions from adjacent sections or survey lines.

Labor _____ League _____

Block _____ Survey _____

Abstract No. _____

(NW¼ NE¼ SW¼ SE¼) of Section _____

3) TYPE OF WORK (Check):
New Well ✓ Deepening
Reconditioning Plugging

4) PROPOSED USE (Check):
Domestic Industrial Municipal
Irrigation Test Well Other

5) TYPE OF WELL (Check):
Rotary Driven Dug
Cable Jetted Bored

6) WELL LOG:
Diameter of hole 6¼ in. Depth drilled 42' ft. Depth of completed well 42' ft. Date drilled 6/29/69

All measurements made from 0' ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0	2	Loam
2	30	Yellow Clay
30	38'	Sand
38	40	Gravel (Sand)
40	42	Shale (Blue)

(Use reverse side if necessary)

9) Casing:
Type: Old New ✓ Steel Plastic Other
Cemented from _____ ft. to _____ ft.

Diameter (inches)	Setting From (ft.)	To (ft.)	Gage
4½	0	42	9#

10) SCREEN:
Type _____
Perforated Slotted

Diameter (inches)	Setting From (ft.)	To (ft.)	Slot Size

7) COMPLETION (Check):
Straight wall Gravel packed ✓ Other
Under reamed Open Hole

8) WATER LEVEL:
Static level _____ ft. below land surface Date _____
Artesian pressure _____ lbs. per square inch Date _____
Depth to pump bowls, cylinder, jet, etc., _____ ft. below land surface.

11) WELL TESTS:
Was a pump test made? Yes No If yes, by whom?
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.
Bailer test _____ gpm with _____ ft. drawdown after _____ hrs.
Artesian flow _____ gpm
Temperature of water _____

12) WATER QUALITY:
Was a chemical analysis made? Yes No
Did any strata contain undesirable water? Yes No
Type of water? _____ depth of strata _____

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME A. B. Hopkins (Type or Print) Water Well Drillers Registration No. 112

ADDRESS 445 N. Hiway 183 (Street or RFD) Irving (City) Texas (State)

(Signed) A. B. Hopkins (Water Well Driller) Hopkins Drilling Co. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

TWDBE-GW-53

33095E

Send original copy by certified mail to the Texas Water Development Board P. O. Box 12386 Austin, Texas 78711

State of Texas

WATER WELL REPORT

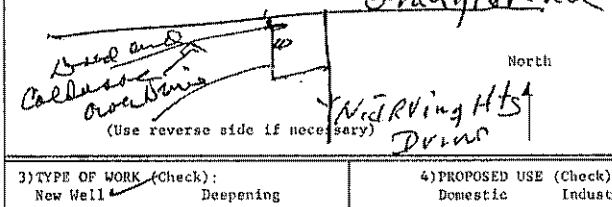
For TWDB use only
Well No. 33-09-5E
Located on map Yes
Received: 6-4
dir

1) OWNER:
Person having well drilled Don Owen (Name) Address 1938 Owen Dairy (Street or RFD) Irving (City) Texas (State)

Landowner Same (Name) Address Same (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Dallas, N central in (N.E., S.W., etc.) direction from Irving (Town)

Locate by sketch map showing landmarks, roads, creeks, hiway number, etc.*



(Use reverse side if necessary)

or Give legal location with distances and directions from adjacent sections or survey lines.

Labor _____ League _____
Block _____ Survey _____
Abstract No. _____
(NW¼ NE¼ SW¼ SE¼) of Section _____

3) TYPE OF WORK (Check): New Well ✓ Deepening Reconditioning Plugging

4) PROPOSED USE (Check): Domestic Industrial Municipal Irrigation Test Well Other (yard)

5) TYPE OF WELL (Check): Rotary ✓ Driven Dug Cable Jetted Bored

6) WELL LOG:
Diameter of hole 9 11 in. Depth drilled 33' ft. Depth of completed well _____ ft. Date drilled 7/15/69
All measurements made from 0' ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0	1	Surface Soil
1	25'	yellow Clay
25	31	Sandy Gravel
31	33	Shale Blue

(Use reverse side if necessary)

9) Casing:
Type: Old ✓ New Steel ✓ Plastic Other
Cemented from _____ ft. to _____ ft.

Diameter (inches)	Setting From (ft.)	To (ft.)	Gage
5 1/2"			13-A

10) SCREEN:
Type _____
Perforated Slotted

Diameter (inches)	Setting From (ft.)	To (ft.)	Slot Size

7) COMPLETION (Check): Straight wall Gravel packed ✓ Other Under reamed Open Hole

8) WATER LEVEL:
Static level _____ ft. below land surface Date _____
Artesian pressure _____ lbs. per square inch Date _____
Depth to pump bowls, cylinder, jet, etc., _____ ft. below land surface.

11) WELL TESTS:
Was a pump test made? Yes No If yes, by whom?
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.
Bailer test _____ gpm with _____ ft. drawdown after _____ hrs.
Artesian flow _____ gpm
Temperature of water _____

12) WATER QUALITY:
Was a chemical analysis made? Yes No
Did any strata contain undesirable water? Yes No
Type of water? _____ depth of strata _____

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME A. B. Hoipkemeier (Type or Print) Water Well Drillers Registration No. 112

ADDRESS 4445 W. ~~Irving~~ Hiway 183 (Street or RFD) Irving (City) Texas (State)

(Signed) A. B. Hoipkemeier (Water Well Driller), Hoipkemeier Drilling Co. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

TWDBE-GW-53

4811300260

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-707

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3309707
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.764723
Latitude (degrees minutes seconds)	32° 45' 53" N
Longitude (decimal degrees)	-96.959723
Longitude (degrees minutes seconds)	096° 57' 35" W
Coordinate Source	+/- 5 Seconds
Aquifer Code	218PLXY - Paluxy Sand
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	418
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	1102
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1951
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Industrial
Water Level Observation	None
Water Quality Available	Yes
Pump	Turbine
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Gifford Hill American
Driller	J.L. Myers Sons
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 7/21/1975 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Paluxy Sand

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		419	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		511.32	mg/L	
00910	CALCIUM (MG/L)		2	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		21	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.4	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		8	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		0.85	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		3	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.21		
00955	SILICA, DISSOLVED (MG/L AS SI02)		12	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		37.19		
00932	SODIUM, CALCULATED, PERCENT		98	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		258	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1192	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		116	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		31	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		665	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-710

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3309710
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.764723
Latitude (degrees minutes seconds)	32° 45' 53" N
Longitude (decimal degrees)	-96.959167
Longitude (degrees minutes seconds)	096° 57' 33" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	218PLXY - Paluxy Sand
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	432
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	1160
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	8/0/1951
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	None
Water Quality Available	No
Pump	Unknown
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Hanson Pressure Pipe Well #1
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0570166A
Groundwater Conservation District Well Number	
Owner Well Number	1
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Commission on Environmental Quality
Created Date	1/23/2012
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-712

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3309712
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.764723
Latitude (degrees minutes seconds)	32° 45' 53" N
Longitude (decimal degrees)	-96.959167
Longitude (degrees minutes seconds)	096° 57' 33" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	218PLXY - Paluxy Sand
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	432
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	1158
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	3/2/2009
Drilling Method	Mud (Hydraulic) Rotary
Borehole Completion	Gravel Pack w/Screen

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	Miscellaneous Measurements
Water Quality Available	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	Pump Down Plug
Surface Completion	Surface Slab Installed
Owner	Hanson Pressure Pipe Well #3
Driller	J.L. Myers Company
Other Data Available	Drillers Log; Specific Capacity
Well Report Tracking Number	184538
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0570166C
Groundwater Conservation District Well Number	
Owner Well Number	3
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Commission on Environmental Quality
Created Date	1/23/2012
Last Update Date	3/4/2020

Remarks	Owners well #3. PWS ID #0570166C. Reported yield 204 GPM with 140 feet drawdown after pumping 36 hours in 2009. Specific capacity 1.46 GPM/ft. Pumping level 564 feet. Pump set at 850 feet. Cement- ed from 0 to 968 feet. Underreamed and gravel packed from 968 to 1145 feet.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
14	Blank	Steel			0	35
9	Blank	Steel			0	968
5	Blank	Steel			905	982
5	Screen	Stainless Steel			982	1024
5	Blank	Steel			1024	1078
5	Screen	Stainless Steel			1078	1100
5	Blank	Steel			1100	1130
5	Screen	Stainless Steel			1130	1144
5	Blank	Steel			1144	1158

Well Tests

Test Date	Test Type	Yield (gallons per minute)	Drawdown (ft.)	Test Hours
2009-06-10	Pump	204	140	36

Lithology

Top Depth (ft.)	Bottom Depth (ft.)	Description
0	30	Allovial sand & gravel
30	130	Shale
130	160	Broken sand & shale
160	255	Shale
255	310	Sand
310	390	Shale sand streaks
390	450	Sand
450	820	Shale, lime streaks
820	860	Shale
860	920	Limestone, shale streaks
920	1020	Sand with shale streaks
1020	1075	Shale
1075	1155	Sand
1155	1160	Lime & Shale

Annular Seal Range - No Data

Borehole

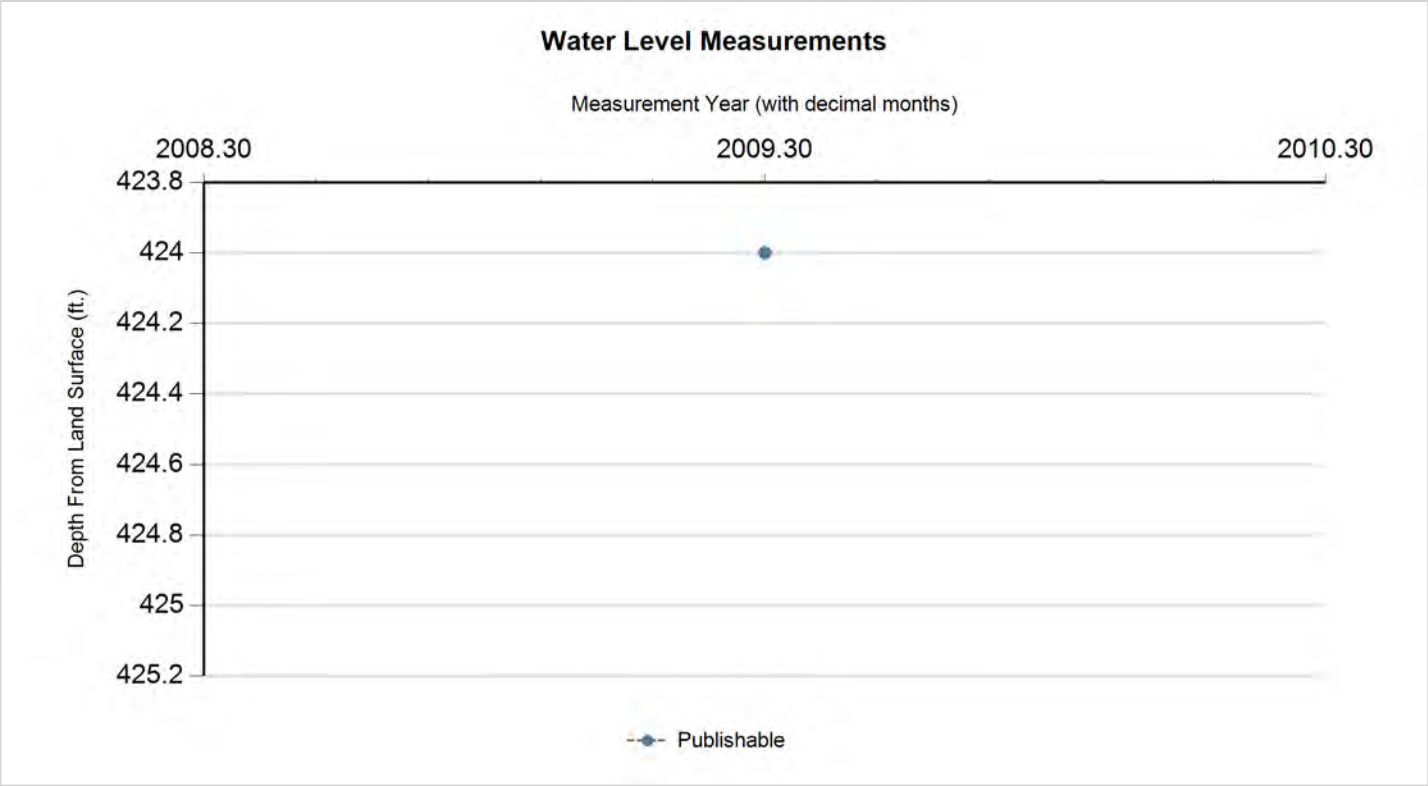
Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
18	0	35
12.25	0	1158

Plugged Back - No Data

Filter Pack

Filter Material	Top Depth (ft.)	Bottom Depth (ft.)	Size
Gravel	968	1145	

Packers - No Data



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	4/20/2009		424		8	1	Registered Water Well Driller	Unknown		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis - No Data Available

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.

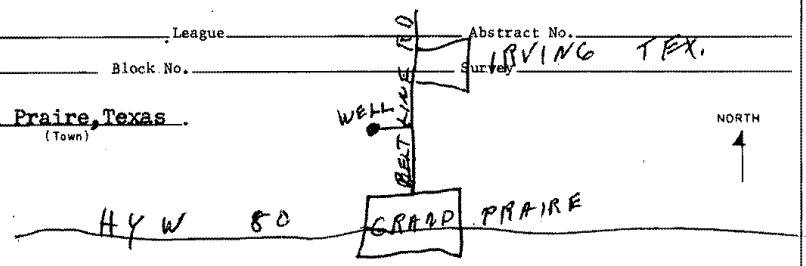
7C GW 7

Send original copy by certified mail to the Texas Water Development Board P. O. Box 12386 Austin, Texas 78711	State of Texas WATER WELL REPORT	For TWDB use only Well No. 33-09-7C Located on map yes Received: 6 7 Form GW 8 Form GW 9

1) OWNER:
Person having well drilled Jack Gazin (Name) Address Grand Praire, Texas (Street or RFD) (City) (State)

Landowner ~~Ditto~~ (Name) Address (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Dallas Labor League Abstract No.
NW¼ NE¼ SW¼ SE¼ of Section Block No. Survey IRVING TEX.
(Circle as many as are known)
4 miles in N. (N.E., S.W., etc.) direction from Grand Praire, Texas (Town).



Sketch map of well location with distances from adjacent section or survey lines, and to landmarks, roads, and creeks.

3) TYPE OF WORK (Check): New Well ☒ Deepening ☐ Reconditioning ☐ Plugging ☐

4) PROPOSED USE (Check): Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

5) TYPE OF WELL (Check): Rotary ☒ Driven ☐ Dug ☐ Cable ☐ Jetted ☐ Bored ☐

6) WELL LOG:
Diameter of hole 6 in. Depth drilled 315 ft. Depth of completed well 315 ft. Date drilled 7/18/66
All measurements made from 3 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material	From (ft.)	To (ft.)	Description and color of formation material
0	18	Sand			
18	55	Blue Shale			
55	63	Iron Water Sand			
63	64	Blue Shale			
64	295	Black Shale			
295	304	Rock			
304	315	Woodbine Water Sand			(Use reverse side if necessary)

7) COMPLETION (Check):
Straight wall ☐ Gravel packed ☐ Other ☐
Under reamed ☐ Open hole ☒

8) WATER LEVEL:
Static level ft. below land surface Date
Artesian pressure lbs. per square inch Date

9) CASING:
Type: old ☐ New ☒ Steel ☒ Plastic ☐ Other ☐
Cemented from 0 ft. to 304 ft.

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Gage
4½	0	304	

10) SCREEN:
Type
Perforated ☐ Slotted ☐

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Slot size

11) WELL TESTS:
Was a pump test made? ☐ Yes ☒ No If yes by whom?
Yield: gpm with ft. drawdown after hrs
Bailer test gpm with ft. drawdown after hrs
Artesian flow gpm Date
Temperature of water 70
Was a chemical analysis made? ☐ Yes ☒ No
Did any strata contain undesirable water? ☒ Yes ☐ No
Type of water? Iron depth of strata 8

12) PUMP DATA:
Manufacturer's Name Reda
Type Submergible H.P. 3/4
Designed pumping rate 10 gpm ☒ gph ☐
Type power unit Electric
Depth to bowls, cylinder, jet, etc., 168 ft. below land surface.

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME V.O. Ward (Type or Print) Water Well Drillers Registration No. 471

Address P.O. Box 8291 (Street or RFD) Ft. Worth (City) Texas (State)

(Signed) V. O. Ward (Water Well Driller) Ward & Ward Drilling Co. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

7D

GW 7

Send original copy by certified mail to the Texas Water Development Board P. O. Box 12386 Austin, Texas 78711

State of Texas

WATER WELL REPORT

db

For TWDB use only
Well No. 38-09-7D
Located on map yes
Received: 67
Form GW 8
Form GW 9

1) OWNER:
Person having well drilled C. B. Drinnan (Name) Address Rt. 2 Box 7 (Street or RFD) Grand Prairie (City) Tex. (State)

Landowner Same (Name) Address (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Dallas Labor League Abstract No.

NW¼ NE¼ SW¼ SE¼ of Section Block No. Survey
(Circle as many as are known)

1 miles in NW (N.E., S.W., etc.) direction from Grand Prairie, Tex. (Town)

See Map on Back

NORTH

Sketch map of well location with distances from adjacent section or survey lines, and to landmarks, roads, and creeks.

3) TYPE OF WORK (Check):
New Well ☑ Deepening ☐
Reconditioning ☐ Plugging ☐

4) PROPOSED USE (Check):
Domestic ☑ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

5) TYPE OF WELL (Check):
Rotary ☑ Driven ☐ Dug ☐
Cable ☐ Jetted ☐ Bored ☐

6) WELL LOG:
Diameter of hole 6¼ in. Depth drilled 386 ft. Depth of completed well 220 ft. Date drilled 9-18-67

All measurements made from 1 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0	3	Top Soil
3	6	Yellow Clay
6	18	Sand-Gravel
18	92	Blue Shale
92	115	Sand
115	145	Blue & Grey Shale
145	214	Grey Shale-Bkn Sdy Stks
214	217	Hd. Lmy Sand
217	378	Blue Shale-Thin Sdy Stks
378	386	Sdy Lime

(Use reverse side if necessary)

7) COMPLETION (Check):
Straight wall ☐ Gravel packed ☐ Other ☐
Under reamed ☐ Open hole ☐ Logged + Perforated

8) WATER LEVEL:
Static level 60 ft. below land surface Date 9-20-67
Artesian pressure lbs. per square inch Date

9) CASING:
Type: old ☐ New ☑ Steel ☑ Plastic ☐ Other ☐
Cemented from 0 ft. to 220 ft.

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Gage
4½	0	220	9#

10) SCREEN:
Type
Perforated ☐ Slotted ☐

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Slot size

11) WELL TESTS:
Was a pump test made? ☐ Yes ☑ No If yes by whom?

Yield: gpm with ft. drawdown after hrs
Bailer test 24 gpm with 10 ft. drawdown after 1 hrs
Artesian flow gpm Date
Temperature of water
Was a chemical analysis made? ☐ Yes ☑ No
Did any strata contain undesirable water? ☐ Yes ☑ No
Type of water? depth of strata

12) PUMP DATA: Pump Installed By Ed Swain Serv. Co.
Manufacturer's Name
Type H.P.
Designed pumping rate gpm ☐ gph ☐
Type power unit
Depth to bowls, cylinder, jet, etc., ft. below land surface.

E-LOG & GAMMA Ray

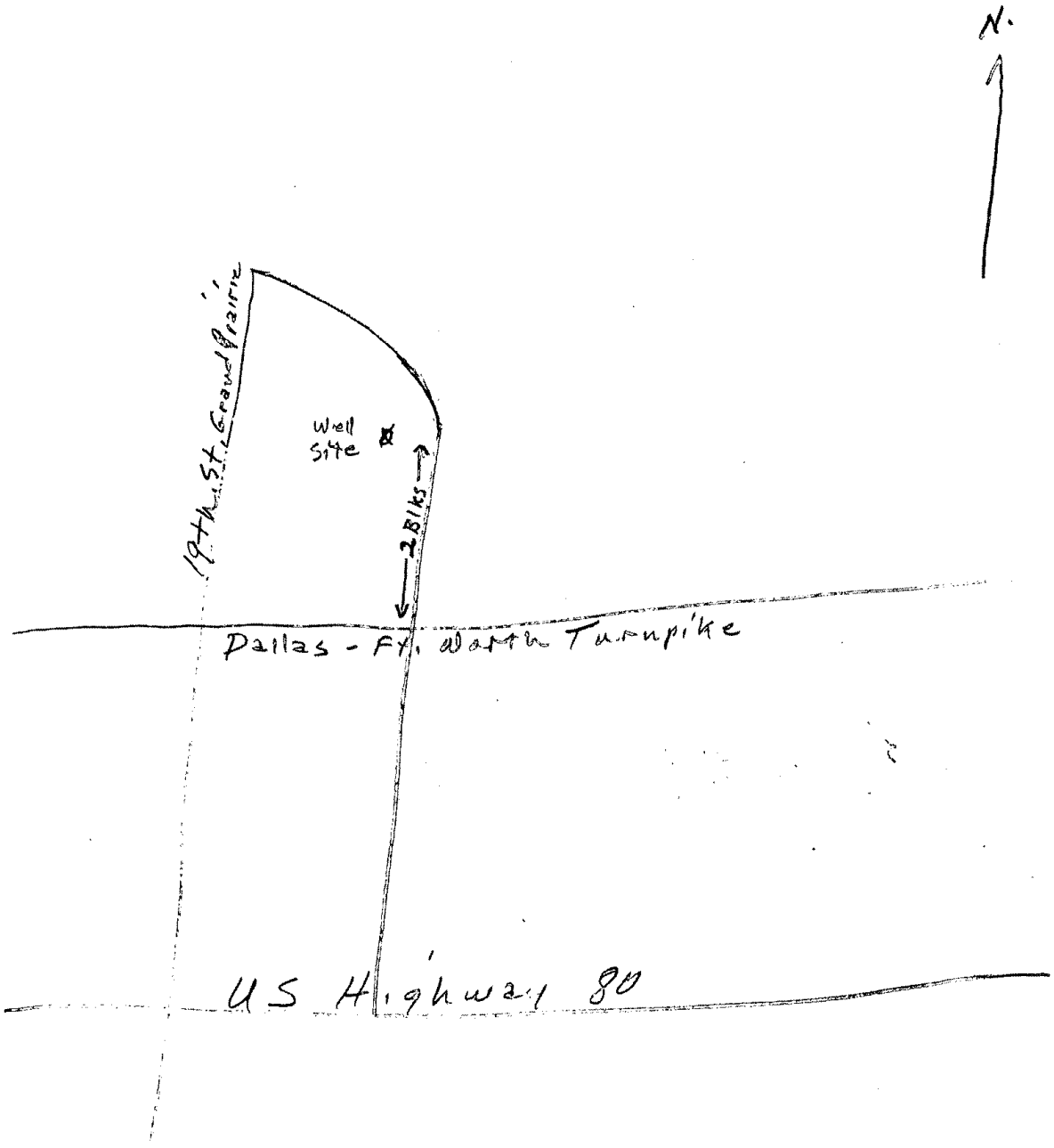
I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME E. C. Stone (Type or Print) Water Well Drillers Registration No. 838

Address Rt. 1 Box 175 E. (Street or RFD) Mansfield (City) Tex. (State)

(Signed) E. C. Stone (Water Well Driller) Stone Water Well Drlg. Co. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.



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DEC -1 1967
Central Records
Texas Water Development Board

RECEIVED
NOV 29 1967
TEXAS WATER
DEVELOPMENT BOARD

Send original copy by certified mail to: TNRCC, P.O. Box 7, Austin, TX 78711-3087 *Please use black ink.*

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

State of Texas WELL REPORT

Texas Water Well Drillers Advisory Council
P.O. Box 13087
Austin, TX 78711-3087
512-239-0530

1) OWNER CLAY GILBERT (Name) ADDRESS 309 SOUTH O'CONNOR ROAD (Street or RFD) IRVING (City) TX (State) 75060 (Zip)

2) ADDRESS OF WELL: County DALLAS 309 SOUTH O'CONNOR ROAD (Street, RFD or other) IRVING (City) TX (State) 75060 (Zip) GRID # 33-09-05

(4)

3) TYPE OF WORK (Check): ☑ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check): ☐ Monitor ☐ Environmental Soil Boring ☐ Domestic ☐ Industrial ☑ Irrigation ☐ Injection ☐ Public Supply ☐ De-watering ☐ Testwell
If Public Supply well, were plans submitted to the TNRCC? ☐ Yes ☐ No

5) X N

6) WELL LOG:
Date Drilling:
Started AUG 21 19 95
Completed AUG 21 19 95

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
7 1/4	Surface	63

7) DRILLING METHOD (Check): ☐ Driven ☐ Air Rotary ☑ Mud Rotary ☐ Bored ☐ Air Hammer ☐ Cable Tool ☐ Jetted ☐ Other

From (ft.)	To (ft.)	Description and color of formation material
0	2	TOP SOIL
2	8	SHALE & CLAY
8	12	GRAVEL & SANDS
12	30	SANDS
30	35	SAND & GRAVEL
35	63	GREY SHALE

(Use reverse side if necessary)

RECEIVED AUG 28 1996

8) Borehole Completion (Check): ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☑ Gravel Packed ☐ Other
If Gravel Packed give interval ... from 10 ft. to 63 ft.

CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casting Screen
4	N	PVC BLANK	0	10	220 PSI
4	N	PVC PERF	10	50	.020
4	N	PVC BLANK	50	60	220 PSI

9) CEMENTING DATA [Rule 338.44(1)]
Cemented from 0 ft. to 10 ft. No. of sacks used 4
ft. to ft. No. of sacks used
Method used HAND MIXED
Cemented by MINDERMAN'S WELL SERVICE
Distance to septic system field lines or other concentrated contamination ft.
Method of verification of above distance

10) SURFACE COMPLETION
☐ Specified Surface Slab Installed [Rule 338.44(2)(A)]
☐ Specified Steel Sleeve Installed [Rule 338.44(3)(A)]
☐ Pitless Adapter Used [Rule 338.44(3)(b)]
☑ Approved Alternative Procedure Used [Rule 338.71]

11) WATER LEVEL:
Static level 12 ft. below land surface Date 8-21-95
Artesian flow gpm. Date

12) PACKERS: Type Depth
N/A

13) TYPE PUMP:
☐ Turbine ☐ Jet ☑ Submersible ☐ Cylinder
☐ Other
Depth to pump bowls, cylinder, jet, etc., 50 ft.

14) WELL TESTS:
Type test: ☑ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: 12 gpm with 20 ft. drawdown after 8 hrs.

15) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable constituents?
☐ Yes ☑ No If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? Depth of strata
Was a chemical analysis made? ☐ Yes ☑ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME MINDERMAN'S WELL SERVICE (Type or print) WELL DRILLER'S LICENSE NO. 2210WP

ADDRESS 1632 E. PRICE STREET (Street or RFD) KELLER (City) TX (State) 76248 (Zip)

(Signed) [signature] (Licensed Well Driller) (Signed) (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

TNRCC-0199 (Rev. 11-01-94) TNRCC COPY

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-702

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3309702
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.756389
Latitude (degrees minutes seconds)	32° 45' 23" N
Longitude (decimal degrees)	-96.958612
Longitude (degrees minutes seconds)	096° 57' 31" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	212WDBN - Woodbine Sand
Aquifer	Woodbine
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	481
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	460
Well Depth Source	Owner
Drilling Start Date	
Drilling End Date	0/0/1950
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Plugged or Destroyed
Water Level Observation	None
Water Quality Available	Yes
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	City of Grand Prairie
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	3/27/1961
Last Update Date	3/4/2020

Remarks	Well formerly owned by Texas Water Company.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 12/9/1957 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Municipal Water Agency or Public Water Supply Corp

Sampled Aquifer: Woodbine Sand

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: from well

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		431	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		525.97	mg/L	
00910	CALCIUM (MG/L)		2	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		35	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.2	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		13	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		140	ug/L	
00920	MAGNESIUM (MG/L)		2	mg/L	
01055	MANGANESE, TOTAL (UG/L AS MN)		50	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.36		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		39.84		
00932	SODIUM, CALCULATED, PERCENT		98	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		333	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1172	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		230	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		862	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

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330955

Send original copy by certified mail to the Texas Water Development Board P. O. Box 12386 Austin, Texas 78711

State of Texas

WATER WELL REPORT

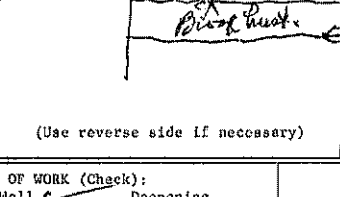
For TWDB use only
Well No. 33-09-5S
Located on map
Received:

1) OWNER:
Person having well drilled Ronald W. Adamson (Name) Address 1221 Brookhurst (Street or RFD) Irving (City) Tex. (State)

Landowner (Name) Address (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Dallas, miles in N.E. (N.E., S.W., etc.) direction from City Hall (Town)

Locate by sketch map showing landmarks, roads, creeks, hiway number, etc.*



(Use reverse side if necessary)

or Give legal location with distances and directions from adjacent sections or survey lines.

Labor _____ League _____
Block _____ Survey _____
Abstract No. _____
(NW¼ NE¼ SW¼ SE¼) of Section _____

3) TYPE OF WORK (Check): New Well ✓ Deepening Reconditioning Plugging

4) PROPOSED USE (Check): Domestic Industrial Municipal Irrigation Test Well Other Yard

5) TYPE OF WELL (Check): Rotary Driven Dug Cable Jetted Bored

6) WELL LOG:
Diameter of hole 6 3/4 in. Depth drilled 48' ft. Depth of completed well 48' ft. Date drilled May 70
All measurements made from 0' ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0	38	Yellow Clay
38	45	Shaled Shale
45	48	Blue Shale

(Use reverse side if necessary)

9) Casing:
Type: Old New ✓ Steel Plastic Other
Cemented from _____ ft. to _____ ft.

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Gage
4½			

10) SCREEN:
Type _____
Perforated Slotted ✓

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Slot Size

7) COMPLETION (Check): Straight wall Gravel packed ✓ Other Under reamed Open Hole

8) WATER LEVEL:
Static level _____ ft. below land surface Date _____
Artesian pressure _____ lbs. per square inch Date _____
Depth to pump bowls, cylinder, jet, etc., _____ ft. below land surface.

11) WELL TESTS:
Was a pump test made? Yes No If yes, by whom?
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.
Bailer test _____ gpm with _____ ft. drawdown after _____ hrs.
Artesian flow _____ gpm
Temperature of water _____

12) WATER QUALITY:
Was a chemical analysis made? Yes No
Did any strata contain undesirable water? Yes No
Type of water? _____ depth of strata _____

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME A. B. Hoipkemeier (Type or Print) Water Well Drillers Registration No. 112

ADDRESS P.O. Box 576 (Street or RFD) Irving (City) Texas (State) 75060

(Signed) A. B. Hoipkemeier (Water Well Driller) A. B. Hoipkemeier Drilling Co. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

TWDBE-GW-53

4811300273

36

File original copy with
Texas Water Commission
P. O. Box 2311, Capitol Station
Austin 11, Texas

State of Texas

DRILLERS LOG AND WELL DATA REPORT

For use by TWC only
Well No. 33-09-38
Located on map yes
By ddr Date 7/76
Map no.

1) Well Owner: Paul V Perrin (Name) 2440 Canano St (Street or RFD) Irving (City) Texas (State)

2) Land Owner: Same (Name) (Street or RFD) (City) (State)

3) Intended use: Industrial ☐ Municipal ☐ Irrigation ☐ Other None

4) Location of well: County Dallas Labor ____ League ____ Abstract No. ____

NW¼ NE¼ SW¼ SE¼ of Section ____ Block No. ____ Survey ____
(Circle as many as are known)

____ miles in ____ (NE, SW, etc.) direction from ____ (Town)

within city limits

North

Sketch map of well location with distances from two section or survey lines, and to landmarks, roads, and creeks.

DRILLERS LOG OF WELL

Method of drilling: Rotary Diameter of hole 6 1/4 in. Date drilled 3-2-66

All measurements made from 0 ft. above ground level.

From (ft)	To (ft)	Description and color of formation material	From (ft)	To (ft)	Description and color of formation material
0	18	Dirty Clay	485	540	shale + sand streaks
18	302	Eagle Ford shale	540	550	shale T.D.
302	310	Sand speckled salt + pepper			
310	340	stiff blue clay + shelly shale			
340	435	shale + shells			
435	450	shale with stalks of sand			
450	485	Sand + Gravel with shell Bits			

(Use continuation sheets if necessary)

COMPLETION DATA

COMPLETION

Straight wall ☐
Under reamed ☐
Gravel packed ☑
Open hole ☐
Other ____

CASING

Type: Old ☐ New ☑
Cemented from 0 ft.
to 503 ft.

Diameter (inches)	Setting from (ft)	Setting to (ft)
4 1/2"	+1	503

SCREEN

Type Galv.
Perforated ☑ Slotted ☐

Diameter (inches)	Setting from (ft)	Setting to (ft)
~~495~~		
2"	495 -	550'

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

A. B. Hairpleneim (Signature) Hairpleneim Well Service (Company Name) Reg. No. 599

Please attach electric log, chemical analysis, and other pertinent information if available.

If well was tested by your company or if you installed the permanent pump please complete the following:

WATER LEVEL AND PUMP DATA

Static water level 230 ft. below ____

Pumping level

feet	hours	gpm
250	30	8

Pump type Submerge
Designed pumping rate ____ gpm ☐ gph ☐
Type power unit Elect.
Horsepower 1 Hp
Depth to bowls, cylinder, jet, etc., 273 ft. below pump base.

Name of contractor testing well or installing permanent pump if other than your company: ____

C-34 (62-4)

5P GW 7

Send original copy by certified mail to the Texas Water Development Board P. O. Box 12386 Austin, Texas 78711

State of Texas

WATER WELL REPORT

For TWDB use only
Well No. 33-09-5P
Located on map
Received:
Form GW 8
Form GW 9

1) OWNER:
Person having well drilled Mr. C R Niford. (Name) Address 900 NANCY DR. (Street or RFD) (City) (State)

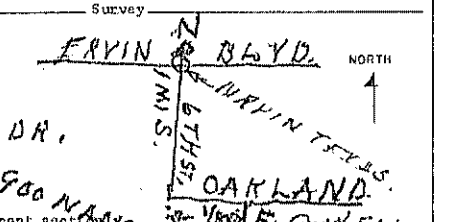
Landowner Mr. C. R. Niford. (Name) Address Irwin Texas. (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County DALLAS Labor ____ League ____ Abstract No. ____

NW¼ NE¼ SW¼ SE¼ of Section ____ Block No. ____ Survey ____
(Circle as many as are known)

miles in ____ (NE, SW, etc.) direction from ____ (Town)

STARTING @ ERVIN BLVD. 1MI S.
1/10 MI E. ON OAKAND. @ 900 NANCY DR.



Sketch map of well location with distances from adjacent section or survey lines, and to landmarks, roads, and creeks.

3) TYPE OF WORK (Check):
New Well ☑ Deepening ☐
Reconditioning ☐ Plugging ☐

4) PROPOSED USE (Check):
Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

5) TYPE OF WELL (Check):
Rotary ☐ Driven ☐ Dug ☐
Cable ☑ Jetted ☐ Bored ☐

6) WELL LOG:
Diameter of hole 8 in. Depth drilled 60 ft. Depth of completed well 60 ft. Date drilled 6-15-68

All measurements made from 0 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material	From (ft.)	To (ft.)	Description and color of formation material
0	3	3' GRAY TOP SOIL			
3	12	9' YELLOW CLAY			
12	18	6' " SUGAR SAND.			
18	28	10' " SANDY GRAVEL			
28	46	18' " GRAVEL			
46	51	5' WATER BARING GRAVEL			
51	60	9' HARD BLUE SHALE			

(Use reverse side if necessary)

7) COMPLETION (Check):
Straight wall ☑ Gravel packed ☐ Other ☐
Under reamed ☐ Open hole ☐

8) WATER LEVEL:
Static level 28 ft. below land surface Date 6-15-68
Artesian pressure ____ lbs. per square inch Date ____

9) CASING: USED BUT NOT OLD.
Type: old ☐ New ☐ Steel ☐ Plastic ☐ Other ☐
Cemented from ____ ft. to ____ ft.

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Gage
7" O.D.	0	51	1/4

10) SCREEN:
Type ____
Perforated ☑ Slotted ☑

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Slot size
	45	51	1/4

11) WELL TESTS:
Was a pump test made? ☐ Yes ☑ No If yes by whom?
10 GAL BAILED IN 5 MIN
3' DRAW DOWN
Yield: ____ gpm with ____ ft. drawdown after ____ hrs
Bailer test ____ gpm with ____ ft. drawdown after ____ hrs
Artesian flow ____ gpm Date ____
Temperature of water ____
Was a chemical analysis made? ☐ Yes ☐ No
Did any strata contain undesirable water? ☐ Yes ☑ No
Type of water? ____ depth of strata ____

12) PUMP DATA:
Manufacturer's Name ____
Type ____ H.P. ____
Designed pumping rate ____ gpm ☐ gph ☐
Type power unit ____
Depth to bowls, cylinder, jet, etc., ____ ft. below land surface.

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME C.W. CHILCOAT (Type or Print) Water Well Drillers Registration No. 312

Address 315 Harryman Dr. (Street or RFD) Dallas (City) Texas 75217 (State)

(Signed) C.W. Chilcoat (Water Well Driller) ____ (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

4811300269

Send original copy by certified return receipt requested to: TDLR, P.O. Box 12157, Austin, TX 78711

57

ATTENTION OWNER: *Confidentiality Privilege Notice on reverse side of Well Owner's copy (pink)*

State of Texas WELL REPORT

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

1) OWNER Jack Yates (Name) ADDRESS 1207 Holly Street (Street or RFD) (City) (State) (Zip)

2) ADDRESS OF WELL'S LOCATION: County Dallas Same (Street, RFD or other) (City) (State) (Zip) Long. ____ Lat. ____ Grid # 33-09-8

3) TYPE OF WORK (Check): [x] New Well [ ] Deepening [ ] Reconditioning [ ] Plugging

(4) PROPOSED USE (Check): [ ] Monitor [ ] Environmental Soil Boring [ ] Domestic [ ] Industrial [x] Irrigation [ ] Injection [ ] Public Supply [ ] De-watering [ ] Testwell
If Public Supply well, were plans submitted to the TNRCC? [ ] Yes [ ] No

5)

6) WELL LOG:
Date Drilling:
Started 1-18 ~~19~~ 2000
Completed 1-19 ~~19~~ 2000

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
8 1/2"	Surface	48'

7) DRILLING METHOD (Check): [ ] Driven [ ] Air Rotary [x] Mud Rotary [ ] Bored [ ] Air Hammer [ ] Cable Tool [ ] Jetted [ ] Other ____

N

From (ft.)	To (ft.)	Description and color of formation material
0	-35	Yellow Clay
-35	-36	P Gravel
-36	-39	Yellow Clay
-39	-43	P Gravel
-43	-46	Clay
-46	-48	Grey Shale

(Use reverse side of Well Owner's copy, if necessary)

8) Borehole Completion (Check): [ ] Open Hole [ ] Straight Wall [ ] Underreamed [x] Gravel Packed [ ] Other ____
If Gravel Packed give interval from -38 ft. to -48 ft.

CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casting Screen
4	N	Plastic	+2	-38	
4	N	PVC Screen	-38	-48	.020

9) CEMENTING DATA
Cemented from +2 ft. to -38 ft. No. of sacks used 11
____ ft. to ____ ft. No. of sacks used ____
Method used tremie
Cemented by Jay Johnson
Distance to septic system field lines or other concentrated contamination ____ ft.
Method of verification of above distance None in area

13) [ ] Well plugged within 48 hours

Casing left in well: From (ft)	Casing left in well: To (ft)	Cement/bentonite placed in well: From (ft)	Cement/bentonite placed in well: To (ft)	Sacks used:

14) TYPE PUMP:
[ ] Turbine [ ] Jet [x] Submersible [ ] Cylinder
[ ] Other ____
Depth to pump bowls, cylinder, jet, etc., 43 ft.

10) SURFACE COMPLETION
[ ] Specified Surface Slab Installed
[x] Specified Steel Sleeve Installed
[ ] Pitless Adapter Used
[ ] Approved Alternative Procedure Used

15) WELL TESTS:
Type test: [x] Pump [ ] Bailer [ ] Jetted [ ] Estimated
Yield: 20 gpm with 0 ft. drawdown after 1 hrs.

11) WATER LEVEL:
Static level 38 ft. below land surface Date 1-19-2000
Artesian flow ____ gpm. Date ____

16) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable constituents?
[ ] Yes [x] No If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? ____ Depth of strata ____
Was a chemical analysis made? [ ] Yes [x] No

12) PACKERS: Type Depth

I certify that I drilled this well (or the well was drilled under my direct supervision) and that each and all of the statements herein are true and correct. I understand that failure to complete items 1 thru 16 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME CCS (Type or print) WELL DRILLER'S LICENSE NO. 54375 IW

ADDRESS 2018 Sunny Circle (Street or RFD) Rockwall (City) TX (State) 75032 (Zip)

(Signed) ____ (Licensed Well Driller) (Signed) ____ (Registered Driller Trainee)

FILE ID ____ SEQ # ____ EMP # ____ JUN 8 2000

Please attach electric log, chemical analysis, and other pertinent information, if available.

TDLR FORM 001WWD (4/98) White - TDLR Yellow - DRILLER Pink - WELL OWNER

DEC 11 1978 330955

Send original copy by certified mail to the Texas Department of Water Resources P. O. Box 13087 Austin, Texas 78711

State of Texas WATER WELL REPORT

DEPT. OF WATER RESOURCES

For TDWR use only
Well No. 33-07-55
Located on map
Received:

1) OWNER YONG HO PAK (Name) Address 908 N. BRITAIN Rd. (Street or RFD) IRVING (City) TX. (State) 75061 (Zip)

2) LOCATION OF WELL: County DALLAS, — miles in IRVING (N.E., S.W., etc.) direction from IRVING (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☑ See attached map.

3) TYPE OF WORK (Check): ☑ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check): ☐ Domestic ☐ Industrial ☐ Public Supply ☑ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check): ☑ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored ☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:

Date drilled 12-8-78

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
6¼	Surface	402

From (ft.)	To (ft.)	Description and color of formation material
0	10	TOP SOIL
11	40	GRAVEL
41	258	BLUE & GRAY SHALES
259	272	SAND
273	350	SHALE
351	360	SANDY SHALE
361	370	~~SAND~~ SHALE
371	380	SAND
381	388	WHITE SHALE
389	402	LIME

(Use reverse side if necessary)

7) BOREHOLE COMPLETION: ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☐ Gravel Packed ☑ Other GUN PERFORATED
If Gravel Packed give interval . . . from — ft. to — ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgf., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
4½*	NEW	STEEL	400	SURF	.188

CEMENTING DATA
Cemented from 400 ft. to SURF. ft.
Method used PRESSURE CEMENTED
Cemented by GEYER DRILLING CO. (Company or Individual)

9) WATER LEVEL:
Static level 250 ft. below land surface Date 12-8-78
Artesian flow — gpm. Date _____

10) PACKERS: Type Depth
NONE

11) TYPE PUMP:
☐ Turbin ☐ Jet ☐ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., _____ ft.

12) WELL TESTS:
☐ Type Test: ☐ Pump ☑ Bailer ☐ Jetted ☐ Estimated
Yield: 5 gpm with 100 ft. drawdown after 3 hrs.

13) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☑ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☑ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME E. B. GEYER (Type or Print) Water Well Drillers Registration No. 852

ADDRESS 107 WALNUT AVE. (Street or RFD) MANSFIELD (City) TEXAS (State) 76063 (Zip)

(Signed) E. B. Geyer (Water Well Driller) GEYER DRILLING CO. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

TDWR-0392

4811300274

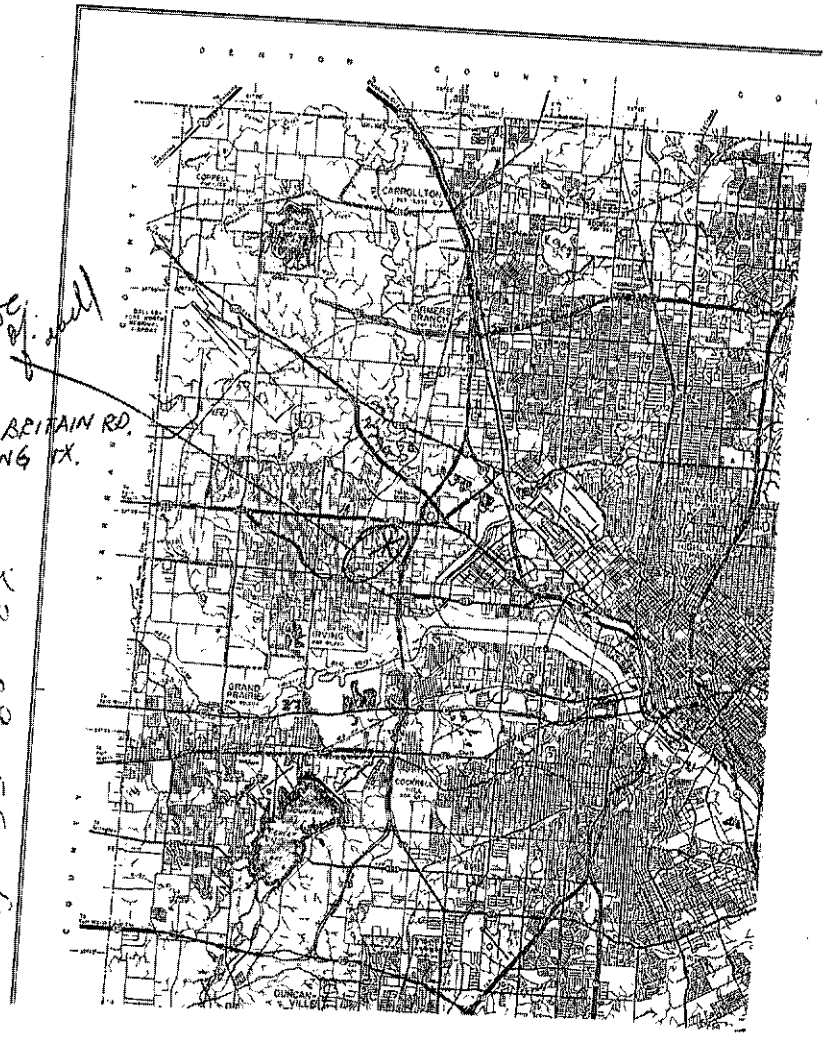
2) LOCATION OF WELL:

The sketch showing the well location must be as accurate as possible, showing landmarks, in sufficient detail so that the well may be plotted on a General Highway Map of the county in which the well is located.

Reference points from which distances are measured and directions given should be of a permanent nature (e.g. highway intersections, center of towns, river and creek bridges, railroad crossings). The distance and direction from the nearest town should always be indicated.

When giving a legal description include a sketch showing location of the well within the described area, e.g. survey abstract.

Information furnished in Section 2 of the TDWR-0392 is very important. Unless the well can be accurately located on a map the value of the other data contained in the Report is greatly reduced.



log of well

908 N. BRITAIN RD.
IRVING TX.

33-09-55

33-09-55

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APR 23 '79
GR/TDWR

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-10-506

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3310506
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.794722
Latitude (degrees minutes seconds)	32° 47' 41" N
Longitude (decimal degrees)	-96.8325
Longitude (degrees minutes seconds)	096° 49' 57" W
Coordinate Source	+/- 10 Seconds
Aquifer Code	100ALVM - Alluvium
Aquifer	Other
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	405
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	50
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1969
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Industrial
Water Level Observation	None
Water Quality Available	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Lone Star Industries
Driller	Combs Wells Drilling
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.

Attention Owner: Confidentiality Privilege Notice on reverse side of owner's copy.

Texas Department of Licensing and Regulation

Water Well Driller/Pump Installer Section
P.O. Box 12157 Austin, Texas 78711 (512)463-7880 FAX (512)463-8616
Toll free (800)803-9202
Email address: water.well@license.state.tx.us Web address: www.license.state.tx.us

This form must be completed and filed with the department and owner **within 60 days** upon completion of the well.

WELL REPORT

A. WELL IDENTIFICATION AND LOCATION DATA

1) OWNER

Name:	Address:	City:	State:	Zip:
Riaz Hassain	1215 Shady Grove Rd	Irving	TX	75060

2) WELL LOCATION

County:	Physical Address:	City:	State:	Zip:
Dallas 57	1215 Shady Grove Rd	Irving	TX	75060

Lat. 32.8013 Long. 96.9629 Grid # 33 09 4

3) Type of Work
☑ New Well ☐ Reconditioning
☐ Replacement ☐ Deepening

4) Proposed Use (check) ☐ Monitor ☐ Environmental Soil Boring ☐ Domestic
☐ Industrial ☐ Irrigation ☐ Injection ☐ Public Supply ☐ De-watering ☐ Testwell
☐ Rig Supply ☐ Stock or Livestock If Public Supply, were plans approved? ☐ Yes ☐ No

5) NT

6) Drilling Date
Started 12/18/03
Completed 12/18/03

Diameter of Hole

Dia.(in)	From (ft)	To (ft)
8 1/4	Surface	40

7) Drilling Method (check)
☐ Driven ☐ Air Rotary ☐ Mud Rotary
☐ Bored ☐ Air Hammer ☐ Cable Tool
☐ Jetted ☑ Hollow Stem Auger
☐ Reverse Circulation
☐ Other

From (ft)	To (ft)	Description and color of formation material
0	12'	Fill dirt
12'	25	Brown Sandy Clay
25	40	Tan Sand

(Use reverse side of Well Owner's copy, if necessary)

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8) Borehole Completion ☐ Open Hole ☐ Straight Wall
☐ Under-reamed ☐ Gravel Packed ☑ Other
Gravel packed interval from: 40 ft. to: 13 ft. Size: 20/40

Casing, Blank Pipe, and Well Screen Data

Dia. (in.)	New Or Used	Steel, Plastic, etc. Perf., Slotted, etc Screen Mfg., if commercial	Setting (ft) From	Setting (ft) To	Gage Casing Screen
2	new	PVC Screen	40	15	.010
2	new	PVC Riser	15	0	540

9) Annular Seal Data: i.e. *(from 0 ft to 100 ft #sacks & material 13 cement)*
from 40 ft. to 13 ft. #sacks & material 14 Sand
from 13 ft. to 2 ft. #sacks & material 4 Bentonite
from 2 ft. to 0 ft. #sacks & material 2 Concrete
Method Used Mix Performed By _____
Distance to septic field or other concentrated contamination _____ ft.
Distance to Property Line _____ ft. Method Verified: _____

10) Surface Completion (If steel cased, leave blank)
☑ Surface Slab Installed ☐ Surface Sleeve Installed
☐ Pitless Adapter Used ☐ Alternative Procedure Used

11) Water Level
Static level _____ ft. Date: ___/___/___
Artesian Flow _____ gpm

12) Packers:

Type:	Depth	Type:	Depth:

13) Plugged ☐ Well plugged within 48 hours
Casing left in well: Cement/Bentonite placed in well:

From (ft)	To (ft)	From (ft)	To (ft)	Material used & # Sacks

14) Type Pump
☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet etc., _____ ft

15) Water Test
Type test ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: _____ gpm with _____ ft drawdown after _____ hrs.

16) Water Quality
Type of water _____ Depth of Strata: _____ Was a chemical analysis made? ☐ Yes ☐ No
Did you knowingly penetrate a strata which contains undesirable constituents? ☐ Yes ☑ No If yes, Continue:
Check One: ☐ Naturally poor-quality groundwater – type _____ ☐ Hydrocarbons (i.e. gas, oil, etc.)
☐ Hazardous material/waste contamination encountered ☐ Other (describe) _____

☐ *I certify that while drilling, deepening, or otherwise altering the above described well, undesirable water or constituents was encountered and the landowner was informed that such well must be completed or plugged in such a manner as to avoid injury or pollution.*

Company & Individual's Name: (type or print) SCF Lic. No.:

Address: 5524 Midway Rd #3 City: Ft Worth State: TX Zip 76117

Signature: Licensed Driller/Pump Installer	Date: / /	Signature: Apprentice	Apprentice Reg. Number:

TDLR FORM 001WWD / 9-03 *TDLR (Original)* *Landowner (copy)* *Driller/Pump Installer (copy)*

·8m: SINL
·5m: WIEL

Please use black ink.
Send original copy by certified mail to the
Texas Department of Water Resources
P. O. Box 13087
Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

Texas Water Well Drillers Board
P. O. Box 13087
Austin, Texas 78711

1) OWNER Westland Corp. (Name) Address 2901 Sandy Ln. (Street or RFD) G. Prairie (City) Tx. (State) 75050 (Zip)

2) LOCATION OF WELL:
County Dallas _____ miles in _____ (N.E., S.W., etc.) direction from _____ (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☑ See attached map.

3) TYPE OF WORK (Check):
☑ New Well ☐ Deepening
☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):
☑ Domestic ☐ Industrial ☐ Public Supply
☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check):
☐ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored
☑ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:
Date drilled 4-86

DIAMETER OF HOLE Dia. (in.)	From (ft.)	To (ft.)
12¼	Surface	36'
6¼	36	420

From (ft.)	To (ft.)	Description and color of formation material
0	12	Top Soil & sand & gravel
12	20	Blue Shell
20	40	Blue Shell
40	60	Blue Shell
60	65	Sand
65	100	Blue Shell
100	108	Blue Shell
108	111	Coal
111	140	Blue Shell
140	180	Blue Shell
180	200	Blue Shell & Lime streaks
200	222	Blue Shell
222	240	Blue Shell & Sand streaks
240	260	Blue Shell
260	280	Blue Shell & sand streaks
280	300	Blue Shell & Sand
300	320	Sand
320	340	Sand & Blue Shell
340	360	Sandy Shell
360	400	Blue Shell
400	420	Blue Shell

(Use reverse side if necessary)

RECEIVED
OCT - 7 1986
TEXAS WATER COMMISSIO

7) BOREHOLE COMPLETION:
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☑ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from 120 ft. to 420 ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc., Perf., Slotted, etc. Screen Mgf., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
4½	N	Plastic Perf	108	420	40
			220	420	36
		Surface Casing	0	40	7"

9) CEMENTING DATA [Rule 319.44(b)]
Cemented from +7 ft. to 47 ft.
_____ ft. to _____ ft.
Method used _____
Cemented by _____

10) SURFACE COMPLETION
☐ Specified Surface Slab Installed [Rule 319.44(c)]
☐ Pitless Adapter Used [Rule 319.44(d)]
☑ Approved Alternative Procedure Used [Rule 319.71]

11) WATER LEVEL:
Static level 160 ft. below land surface Date _____
Artesian flow _____ gpm. Date _____

12) PACKERS: Type Depth
Formation

13) TYPE PUMP:
☐ Turbine ☐ Jet ☑ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 715 ft.

14) WELL TESTS:
Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☑ Estimated
Yield: 10 gpm with _____ ft. drawdown after _____ hrs.

15) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☑ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☑ No

I here by certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 12 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME Miller Drilling (Type or Print) Water Well Driller's License No. 2436

ADDRESS P.O. Box 7 (Street or RFD) Rhome (City) Tx. (State) 76078 (Zip)

(Signed) Jimmy L. Miller (Licensed Water Well Driller) (Signed) _____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TDWR use only
Well No. 33-09-7
Located on map _____

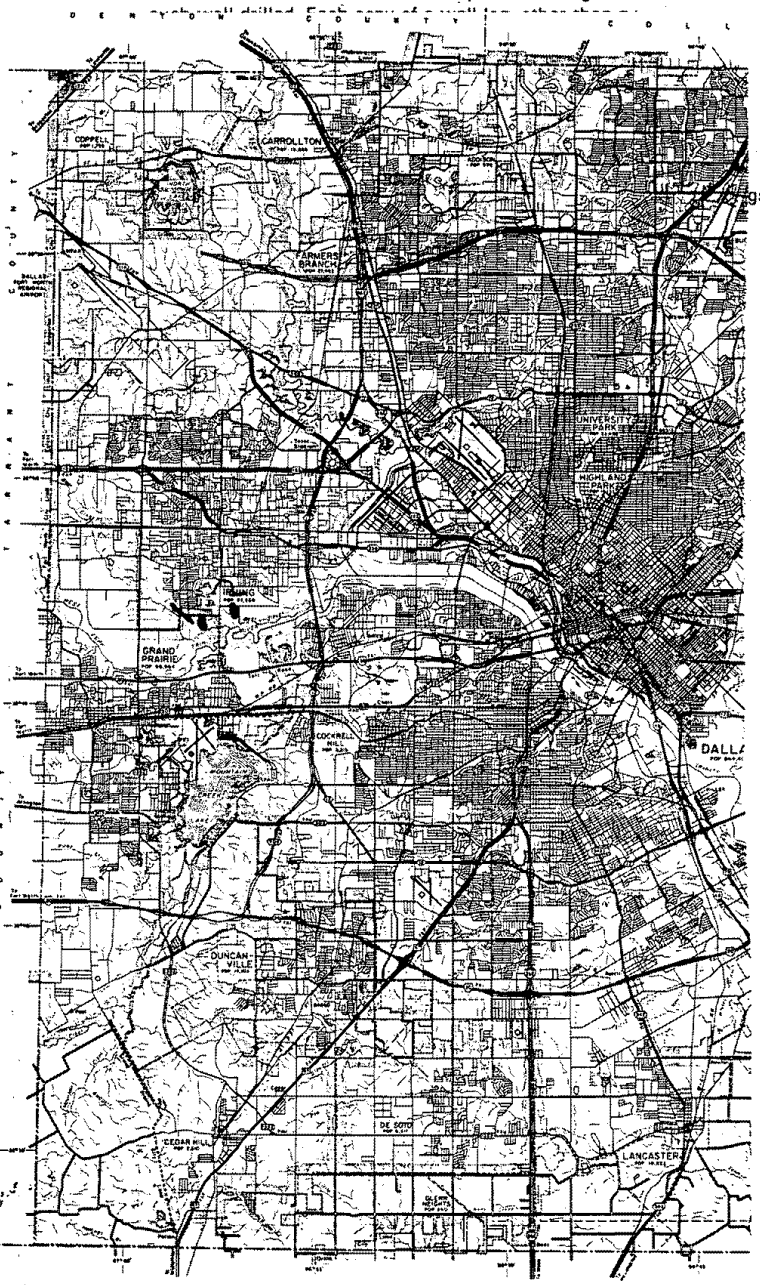
DEPARTMENT OF WATER RESOURCES COPY

TDWR-0392 (12/29/83)

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING PRIVILEGE OF CONFIDENTIALITY

The Water Well Drillers Board and the Department of Water Resources are concerned that some persons having water wells drilled may not be aware of the confidentiality privilege provision of Section 5 of the Water Well Drillers Act. Section 5, the Reporting of Well Logs, reads as follows:

> "Every licensed water well driller drilling, deepening or otherwise altering a water well within this State shall make and keep, or cause to be made and kept, a legible and accurate well log, and within 30 days from the completion or cessation of drilling, deepening or otherwise altering such a water well, shall deliver or transmit by certified mail a copy of such well log to the department, and the owner thereof or the person having had



Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-706

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3309706
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.781667
Latitude (degrees minutes seconds)	32° 46' 54" N
Longitude (decimal degrees)	-96.965834
Longitude (degrees minutes seconds)	096° 57' 57" W
Coordinate Source	+/- 1 Second
Aquifer Code	212WDBN - Woodbine Sand
Aquifer	Woodbine
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	420
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	291
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1968
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Quiet Acres Trailer Park
Driller	A.B. Hoipkemeier Drilling
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-17-204

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3317204
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.741945
Latitude (degrees minutes seconds)	32° 44' 31" N
Longitude (decimal degrees)	-96.953612
Longitude (degrees minutes seconds)	096° 57' 13" W
Coordinate Source	+/- 5 Seconds
Aquifer Code	212WDBN - Woodbine Sand
Aquifer	Woodbine
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	436
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	502
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Industrial
Water Level Observation	None
Water Quality Available	Yes
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 5/8/1975 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Woodbine Sand

Analyzed Lab: Texas Department of Health **Reliability:** From well not sufficiently pumped; not filtered or preserved

Collection Remarks: pressure tank

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		435	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		530.85	mg/L	
00910	CALCIUM (MG/L)		1.8	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		25	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		5	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		0.36	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		1.3	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.58		
00955	SILICA, DISSOLVED (MG/L AS SI02)		10	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		40.37		
00932	SODIUM, CALCULATED, PERCENT		99	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		280	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1305	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		137	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		24	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		718	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

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33-09-5T

Send original copy by certified mail to the Texas Water Development Board P. O. Box 12386 Austin, Texas 78711

State of Texas

WATER WELL REPORT

For TWDB use only
Well No. 33-09-5T
Located on map
Received:

1) OWNER:
Person having well drilled Fred W. Miller (Name) Address 1410 Milwaukee Irving, Tex (Street or RFD) (City) (State)

Landowner None (Name) Address (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Dallas in Irving City limits miles in (N.E., S.W., etc.) direction from (Town)

Locate by sketch map showing landmarks, roads, creeks, hiway number, etc.*

North

(Use reverse side if necessary)

or

Give legal location with distances and directions from adjacent sections or survey lines.

Labor _____ League _____

Block _____ Survey _____

Abstract No. _____

(NW¼ NE¼ SW¼ SE¼) of Section _____

3) TYPE OF WORK (Check): New Well ✓ Deepening Reconditioning Plugging

4) PROPOSED USE (Check): Domestic Industrial Municipal Irrigation ✓ Test Well Other

5) TYPE OF WELL (Check): Rotary ✓ Driven Dug Cable Jetted Bored

6) WELL LOG:
Diameter of hole 8 3/4" in. Depth drilled 35' ft. Depth of completed well 35' ft. Date drilled May 71

All measurements made from _____ ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0	26	yellow clay
26	35	sand & gravel

(Use reverse side if necessary)

9) Casing:
Type: Old ✓ New Steel ✓ Plastic Other

Cemented from _____ ft. to _____ ft.

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Gage

10) SCREEN:
Type _____

Perforated Slotted

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Slot Size

7) COMPLETION (Check):
Straight wall Gravel packed ✓ Other
Under reamed Open Hole

8) WATER LEVEL:
Static level _____ ft. below land surface Date _____
Artesian pressure _____ lbs. per square inch Date _____
Depth to pump bowls, cylinder, jet, etc., _____ ft. below land surface.

11) WELL TESTS:
Was a pump test made? Yes No If yes, by whom?
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.
Bailer test _____ gpm with _____ ft. drawdown after _____ hrs.
Artesian flow _____ gpm
Temperature of water _____

12) WATER QUALITY:
Was a chemical analysis made? Yes No
Did any strata contain undesirable water? Yes No
Type of water? _____ depth of strata _____

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME A. B. Hoipkemeier (Type or Print) Water Well Drillers Registration No. 117

ADDRESS P. O. Box 516 (Street or RFD) Irving, (City) Texas (State) 75061

(Signed) A. B. Hoipkemeier (Water Well Driller) A. B. Hoipkemeier Drilling Co. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

TWDBE-GW-53

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-10-821

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3310821
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.777778
Latitude (degrees minutes seconds)	32° 46' 40" N
Longitude (decimal degrees)	-96.8275
Longitude (degrees minutes seconds)	096° 49' 39" W
Coordinate Source	+/- 1 Second
Aquifer Code	212WDBN - Woodbine Sand
Aquifer	Woodbine
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	438
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	830
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1973
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Industrial
Water Level Observation	None
Water Quality Available	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Gifford-Hill and Co
Driller	J.L. Myers Sons
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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03/05/2024
05:03:08

Texas Commission on Environmental Quality
DWW Water System Summary Sheet

PWS ID	PWS Name	Central Registry RN
TX0570048	CITY OF GRAND PRAIRIE Superior	RN102835527

Organization/Customer *	Central Registry CN
CITY OF GRAND PRAIRIE	CN600253967

*Regulatory mail will be addressed to this organization/person

All Water System Contacts

Type	Contact	Communication
AC - Administrative Contact - MAYOR	JENSEN, RON PO BOX 534045 GRAND PRAIRIE, TX 75053-4045	Phone Type: BUS - Business; Value: 972-237-8035
EC - Emergency Contact	HOUSEWRIGHT, NOREEN 620 SMALL HILL DR GRAND PRAIRIE, TX 75050-5797	Phone Type: BUS - Business; Value: 972-237-8150
ECS - Emergency Contact - Secondary - OPERATOR	MERRITT, BRISTER 620 SMALL HILL DR GRAND PRAIRIE, TX 75050-5797	Phone Type: BUS - Business; Value: 972-237-8410 Phone Type: MOB - Mobile; Value: 469-792-3479
FC - Financial Contact - WATER OPERATIONS	ARD, CARMEN 620 SMALL HILL DR GRAND PRAIRIE, TX 75050-5797	Electronic Type: Value Phone Type: BUS - Business; Value: 972-237-8411
OW - Owner	CITY OF GRAND PRAIRIE 620 SMALL HILL DR GRAND PRAIRIE, TX 75050-5797	
PWS - Public Water System Contact - OPERATOR	MERRITT, BRISTER 620 SMALL HILL DR GRAND PRAIRIE, TX 75050-5797	Phone Type: BUS - Business; Value: 972-237-8410 Phone Type: MOB - Mobile; Value: 469-792-3479

Operator Grade	Number
BACKFLOW PREVENTION ASSEMBLY TESTER	2
WATER DISTRIBUTION OPERATOR Grade C	23
WATER DISTRIBUTION OPERATOR Grade B	6
CUSTOMER SERVICE INSPECTOR	2
GROUND WATER TREATMENT OPERATOR Grade C	2
WATER OPERATOR Grade A	1

Water Operator Licenses

License Holder:	CLAY, KASI L	
CURRENT	Class: A - WATER OPERATOR	WO0048336
License Holder:	MARTINEZ, RONNIE L SR	
CURRENT	Class: B - WATER DISTRIBUTION OPERATOR	WD0014751
License Holder:	CAMEHL, DANIEL E	
CURRENT	Class: B - WATER DISTRIBUTION OPERATOR	WD0014693
License Holder:	HOLMAN, GREGORY G	
CURRENT	Class: B - WATER DISTRIBUTION OPERATOR	WD0014430
License Holder:	SIDDALL, JAMES L	
CURRENT	Class: B - WATER DISTRIBUTION OPERATOR	WD0002622
License Holder:	CAMPBELL, ADAM S	
CURRENT	Class: B - WATER DISTRIBUTION OPERATOR	WD0002931
License Holder:	RAZO, OSCAR J	
CURRENT	Class: B - WATER DISTRIBUTION OPERATOR	WD0014641
License Holder:	RIOS, DENOVAN E	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0013413
License Holder:	PHILLIPS, GREGORY S JR	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0014766
License Holder:	BRANCH, JASON EDWARD	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0003457
License Holder:	GEORGE, DAVID W	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0014765
License Holder:	CLARK, DAVID A	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0005559
License Holder:	VANCAMP, HENRY L	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0014044
License Holder:	MENDEZ, CINDY E	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0004876
License Holder:	LUNA, RENE	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0005469
License Holder:	ABREGO, MARIO	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0014323
License Holder:	COSTELLO, STEVEN J	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0011108
License Holder:	LIMAS, JESUS A	

CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0017052
License Holder:	STEWART, JAMES E	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0011379
License Holder:	SHORT, RUTHERFORD D JR	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0010591
License Holder:	DUENAS, DAVID A	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0014031
License Holder:	HARDIN, BYRON R	
CURRENT	Class: C - GROUND WATER TREATMENT OPERATOR	WG0002790
License Holder:	TUCKER, MICKEY W	
CURRENT	Class: C - GROUND WATER TREATMENT OPERATOR	WG0016789
License Holder:	TAYLOR, DOUGLAS A SR	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0002162
License Holder:	GRAVLEY, DENVER J	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0012080
License Holder:	ROYBAL, JOHNNY J	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0012625
License Holder:	BULIN, JOSHUA J	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0006311
License Holder:	HUGHES, ADDICUS Z	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0014597
License Holder:	KING, EDWIN L	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0003597
License Holder:	GARCIA, JOEL A	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0007717
License Holder:	SPURGIN, ROBERT W	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0001249
License Holder:	MCDONALD, ROBERT B	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0001085
License Holder:	HARDIN, BYRON R	
CURRENT	Class: NONE - CUSTOMER SERVICE INSPECTOR	CI0001631
License Holder:	KING, EDWIN L	
CURRENT	Class: NONE - BACKFLOW PREVENTION ASSEMBLY TESTER	BP0001385
License Holder:	KING, EDWIN L	

CURRENT	Class: NONE - CUSTOMER SERVICE INSPECTOR	CI0000745
License Holder:	HARDIN, BYRON R	
CURRENT	Class: NONE - BACKFLOW PREVENTION ASSEMBLY TESTER	BP0003847
License Holder:	MCCULLER, RONALD E	
EXPIRED	Class: A - WATER OPERATOR	WO0008010
License Holder:	WALSH, BARRY C	
EXPIRED	Class: B - WATER DISTRIBUTION OPERATOR	WD0012059
License Holder:	KEAR, JAIME K	
EXPIRED	Class: B - WATER DISTRIBUTION OPERATOR	WD0014635
License Holder:	CLAY, KASI L	
EXPIRED	Class: B - SURFACE WATER TREATMENT OPERATOR	WS0012747
License Holder:	MARTIN, MATTHEW D	
EXPIRED	Class: C - WATER DISTRIBUTION OPERATOR	WD0014255
License Holder:	VU, DUY D	
EXPIRED	Class: C - WATER DISTRIBUTION OPERATOR	WD0010527
License Holder:	PEREZ, VICTOR H	
EXPIRED	Class: C - WATER DISTRIBUTION OPERATOR	WD0014047
License Holder:	SUGG, DANNY W	
EXPIRED	Class: C - WATER DISTRIBUTION OPERATOR	WD0001496
License Holder:	PLUMMER, CHAUNCEY J	
EXPIRED	Class: C - WATER DISTRIBUTION OPERATOR	WD0014204
License Holder:	SPENCER, LOGAN J	
EXPIRED	Class: C - WATER DISTRIBUTION OPERATOR	WD0014500
License Holder:	FABELA, RAFAEL JR	
EXPIRED	Class: C - WATER DISTRIBUTION OPERATOR	WD0011763
License Holder:	TURNIPSEED, RYAN E	
EXPIRED	Class: C - WATER DISTRIBUTION OPERATOR	WD0015345
License Holder:	FAVELA, RUBEN	
EXPIRED	Class: C - WATER DISTRIBUTION OPERATOR	WD0014827
License Holder:	REDDING, JOE L	
EXPIRED	Class: C - WATER DISTRIBUTION OPERATOR	WD0010589
License Holder:	ORTEGA, SAUL	
EXPIRED	Class: D - WATER OPERATOR	WO0040414
License Holder:	GONZALEZ, WALTER A	
EXPIRED	Class: D - WATER OPERATOR	WO0036805
License Holder:	LIMAS, JESUS A	

EXPIRED	Class: D - WATER OPERATOR	WO0041488
License Holder:	GREEN, BRET A	
EXPIRED	Class: D - WATER OPERATOR	WO0042235
License Holder:	BETZ, LAUREN N	
EXPIRED	Class: D - WATER OPERATOR	WO0041322
License Holder:	GALLAWAY, TYLER S	
EXPIRED	Class: D - WATER OPERATOR	WO0040474
License Holder:	COVERSON, BRETT D	
EXPIRED	Class: D - WATER OPERATOR	WO0041966
License Holder:	LAU, TSZPUI	
EXPIRED	Class: D - WATER OPERATOR	WO0042321

Owner Type	Owner Type Options: COUNTY, DISTRICT, FEDERAL GOVERNMENT, INVESTOR OWNED, MUNICIPALITY, NATIVE AMERICAN, PRIVATE, STATE GOVERNMENT, WATER SUPPLY CORPORATION
Municipality	

System Type	System Type Options: COMMUNITY, TRANSIENT/NON-COMMUNITY, NON-PUBLIC, NON-TRANSIENT/NON-COMMUNITY
C - Community	

Population Type	Population Served	# of Connect	# I/C w/other PWS
Residential	187050	69968	0

Total Product (MGD)	Average Daily Consump.	Max Daily Demand (MGD)	Total Storage (MG)	Elev. Storage (MG)	Service Pump Cap.	Max.Purchase Cap. (MGD/GPM)	Pressure Tank Cap. (MG)
	####### MGD	####### MGD Occurred on	48.7 MG	###### MG	59.589 GPM		

Activity Status	Inactivation Date
A - ACTIVE	

Last Survey Date	Surveyor	Survey Type	Region	County
05/04/2021	STEVE ZAWROTNY	Sanitary Survey	ARLINGTON	DALLAS
10/18/2017	MERISSA GREEN	Sanitary Survey	ARLINGTON	DALLAS
12/09/2014	MERISSA GREEN	Sanitary Survey	ARLINGTON	DALLAS

(Treatment Plant)							
Entry Point	EP Name/Source Summation (Activity Status)	Plant Name (Activity Status)	Plant Num	Chemical Mon Type	Chem Sample Point	Distribution Mon Type	Dist Sample Point
EP011	TRT-TAP / Purchased Surface Water(A)	WELL 23(A)	TP15603		NO		NO

Train:	Unnamed

(Treatments)

Disinfection Zone	Treatment Sequence	Objective	Process	Treatment
null	null	D	200	CHLORAMINES
null	null	D	423	HYPOCHLORINATION, PRE

(Active Sources)

Source Number	Source Name (Activity Status)	Operational Status	Source Type	Depth	Tested GPM	Rated GPM
G0570048H	23 - W ROBINSON (A)	E	G	2052	900 GPM	800 GPM

Drill Date	Source Summary
01/01/1913	TRINITY

GPS Latitude (decimal)	GPS Longitude (decimal)	GPS Elevation	GPS Date	Seller
32.722194	-97.020881	0	10/02/2013	Not Purchasing

(Inactive/Offline Sources)

SourceNumber	Name	Status	Depth

(Treatment Plant)

Entry Point	EP Name/Source Summation (Activity Status)	Plant Name (Activity Status)	Plant Num	Chemical Mon Type	Chem Sample Point	Distribution Mon Type	Dist Sample Point
EP001	TRT-TAP / Purchased Surface Water(A)	DALLAS SOUTH(A)	TP17671		NO		NO

Train:	Unnamed

(Treatments)

Disinfection Zone	Treatment Sequence	Objective	Process	Treatment
null	null	D	461	CHLORINATION (FRDS-1.5)

(Active Sources)

Source Number	Source Name (Activity Status)	Operational Status	Source Type	Depth	Tested GPM	Rated GPM
P0570048A	SW FROM CITY OF DALLAS SOUTH (A)	P	P	N/A	N/A	N/A

Drill Date	Source Summary
None Available	

GPS Latitude (decimal)	GPS Longitude (decimal)	GPS Elevation	GPS Date	Seller
				TX0570004

(Inactive/Offline Sources)			
SourceNumber	Name	Status	Depth

(Treatment Plant)							
Entry Point	EP Name/Source Summation (Activity Status)	Plant Name (Activity Status)	Plant Num	Chemical Mon Type	Chem Sample Point	Distribution Mon Type	Dist Sample Point
EP002	TRT-TAP / Purchased Surface Water(A)	DALLAS NORTH(A)	TP20171		NO		NO

Train:	Unnamed			
(Treatments)				
Disinfection Zone	Treatment Sequence	Objective	Process	Treatment
null	null	D	461	CHLORINATION (FRDS-1.5)

(Active Sources)						
Source Number	Source Name (Activity Status)	Operational Status	Source Type	Depth	Tested GPM	Rated GPM
P0570048B	SW FROM CITY OF DALLAS NORTH (A)	P	P	N/A	N/A	N/A

Drill Date	Source Summary			
None Available				
GPS Latitude (decimal)	GPS Longitude (decimal)	GPS Elevation	GPS Date	Seller
				TX0570004

Source Number	Source Name (Activity Status)	Operational Status	Source Type	Depth	Tested GPM	Rated GPM
G0570048F	21 - 903 HUNTER FERREL (A)	E	G	1989	660 GPM	650 GPM

Drill Date	Source Summary			
01/01/1913	TWIN MOUNTAIN -			
GPS Latitude (decimal)	GPS Longitude (decimal)	GPS Elevation	GPS Date	Seller
32.775994	-96.992808	0	06/07/2010	Not Purchasing

Source Number	Source Name (Activity Status)	Operational Status	Source Type	Depth	Tested GPM	Rated GPM
G0570048D	19 - 634 NE 8TH (A)	E	G	2039	660 GPM	780 GPM

Drill Date	Source Summary
01/01/1913	TWIN MOUNTAIN -

GPS Latitude (decimal)	GPS Longitude (decimal)	GPS Elevation	GPS Date	Seller
32.7546	-96.995808	0	06/07/2010	Not Purchasing

(Inactive/Offline Sources)			
SourceNumber	Name	Status	Depth

(Treatment Plant)							
Entry Point	EP Name/Source Summation (Activity Status)	Plant Name (Activity Status)	Plant Num	Chemical Mon Type	Chem Sample Point	Distribution Mon Type	Dist Sample Point
EP013	TRT-TAP / Purchased Surface Water(A)	WELL 25(A)	TP2800		NO		NO

Train:	Unnamed			
(Treatments)				
Disinfection Zone	Treatment Sequence	Objective	Process	Treatment
null	null	D	200	CHLORAMINES
null	null	D	423	HYPOCHLORINATION, PRE

(Active Sources)						
Source Number	Source Name (Activity Status)	Operational Status	Source Type	Depth	Tested GPM	Rated GPM
G0570048J	25 - 5210 MATTHEW RD (A)	E	G	2008	750 GPM	800 GPM

Drill Date	Source Summary			
01/24/1985	TWIN MOUNTAIN -			
GPS Latitude (decimal)	GPS Longitude (decimal)	GPS Elevation	GPS Date	Seller
32.6477	-97.028803	0	06/07/2010	Not Purchasing

(Inactive/Offline Sources)			
SourceNumber	Name	Status	Depth

(Treatment Plant)							
Entry Point	EP Name/Source Summation (Activity Status)	Plant Name (Activity Status)	Plant Num	Chemical Mon Type	Chem Sample Point	Distribution Mon Type	Dist Sample Point
EP008	TRT-TAP / Purchased Surface Water(A)	WELL 20(A)	TP2801		NO		NO

Train:	Unnamed			
(Treatments)				
Disinfection Zone	Treatment Sequence	Objective	Process	Treatment

null	null	D	200	CHLORAMINES
null	null	D	423	HYPOCHLORINATION, PRE

(Active Sources)						
Source Number	Source Name (Activity Status)	Operational Status	Source Type	Depth	Tested GPM	Rated GPM
G0570048E	20 - 1802 AVE A (A)	E	G	2074	350 GPM	500 GPM

Drill Date		Source Summary		
01/01/1965		TWIN MOUNTAIN -		
GPS Latitude (decimal)	GPS Longitude (decimal)	GPS Elevation	GPS Date	Seller
32.720883	-96.983806	0	06/07/2010	Not Purchasing

(Inactive/Offline Sources)			
SourceNumber	Name	Status	Depth

(Treatment Plant)							
Entry Point	EP Name/Source Summation (Activity Status)	Plant Name (Activity Status)	Plant Num	Chemical Mon Type	Chem Sample Point	Distribution Mon Type	Dist Sample Point
EP012	TRT-TAP / Purchased Surface Water(I)	WELL 24(I)	TP2797		NO		NO

Train:	Unnamed			
(Treatments)				
Disinfection Zone	Treatment Sequence	Objective	Process	Treatment
null	null	D	200	CHLORAMINES
null	null	D	423	HYPOCHLORINATION, PRE

(Active Sources)

(Inactive/Offline Sources)			
SourceNumber	Name	Status	Depth

Code Explanations
Monitoring Type Codes: (GW) GROUNDWATER , (GUP) GROUNDWATER UNDER THE INFLUENCE - PURCHASED , (SWP) SURFACE WATER - PURCHASED , (GU) GROUNDWATER UNDER THE INFLUENCE OF SURFACE WATER , (N) NO SOURCES , (SW) SURFACE WATER
Activity Status Codes: (A) ACTIVE , (D) DELETED/DISSOLVED , (I) INACTIVE , (P) PROPOSED ,
Operational Status Codes: (E) EMERGENCY , (I) INTERIM/PEAK (O) OTHER , (P) PERMANENT , (S) SEASONAL
Source Types: (G) GROUND WATER , (S) SURFACE WATER , (U) GROUND WATER UNDER

- End of Report -

At the time of your query this data was the most current information available from our database, which is in real time. Every effort was made to retrieve it according to your query. Thank-you for using DWW.

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-703

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3309703
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.7555556
Latitude (degrees minutes seconds)	32° 45' 20" N
Longitude (decimal degrees)	-96.9630556
Longitude (degrees minutes seconds)	096° 57' 47" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	218TWMT - Twin Mountains Formation
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	481
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	2163
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	7/0/1953
Drilling Method	
Borehole Completion	Screened

Well Type	Withdrawal of Water
Well Use	Plugged or Destroyed
Water Level Observation	Historical
Water Quality Available	Yes
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	City of Grand Prairie Well #16
Driller	J.L. Myers Sons
Other Data Available	Drillers Log
Well Report Tracking Number	
Plugging Report Tracking Number	220529
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0570048C
Groundwater Conservation District Well Number	
Owner Well Number	16
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	10/16/1956
Last Update Date	2/12/2023

Remarks	

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
20	Blank	Steel			0	50
16	Blank	Steel			0	900
11	Blank	Steel			900	1980
7	Blank	Steel			1721	2006
7	Screen				2006	2163

Well Tests - No Data

Lithology - No Data

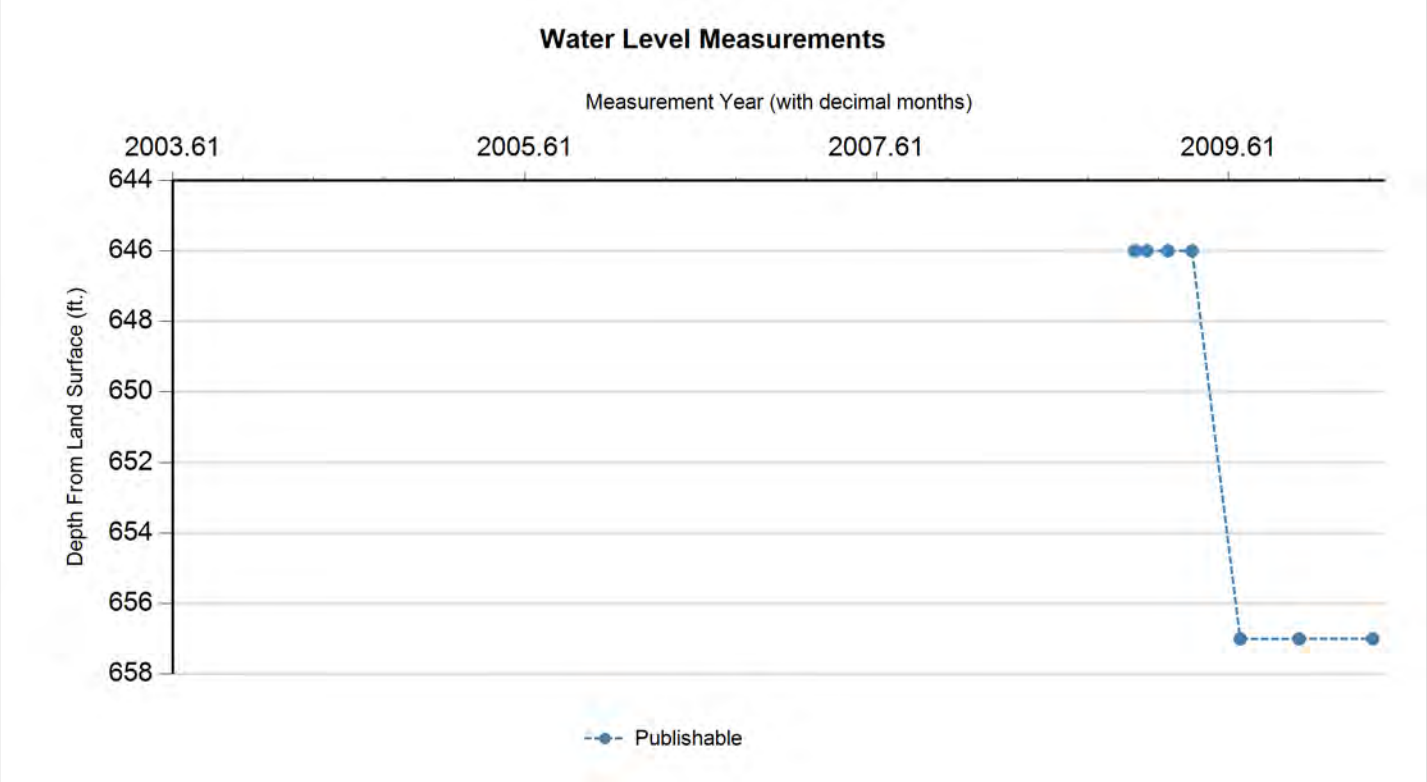
Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
X	9/9/2003					1	Texas Water Development Board		19	
P	1/29/2009		646		-165	1	Municipal Water Agency or PWS Corporation	Air Line		
P	2/24/2009		646	0.00	-165	1	Municipal Water Agency or PWS Corporation	Air Line		
P	4/8/2009		646	0.00	-165	1	Municipal Water Agency or PWS Corporation	Air Line		
P	5/28/2009		646	0.00	-165	1	Municipal Water Agency or PWS Corporation	Air Line		
P	9/8/2009		657	11.00	-176	1	Municipal Water Agency or PWS Corporation	Air Line		
P	1/5/2010		657	0.00	-176	1	Municipal Water Agency or PWS Corporation	Air Line		
P	6/8/2010		657	0.00	-176	1	Municipal Water Agency or PWS Corporation	Air Line		

Code Descriptions

Status Code	Status Description
P	Publishable
X	No Measurement

Remark ID	Remark Description
19	Well pumping

Water Quality Analysis

Sample Date: 9/11/1956 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Department of Health

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: raw sample from well

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		410	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		500.34	mg/L	
00910	CALCIUM (MG/L)		5	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		82	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.8	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		25	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		10	ug/L	
00920	MAGNESIUM (MG/L)		3	mg/L	
01055	MANGANESE, TOTAL (UG/L AS MN)	<	50	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.3	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.7		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		34.93		
00932	SODIUM, CALCULATED, PERCENT		97	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		400	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		293	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1032	mg/L	

Water Quality Analysis

Sample Date: 12/9/1957 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Department of Health

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: raw sample from well

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		428	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		522.3	mg/L	
00910	CALCIUM (MG/L)		6	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		89	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.4	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		27	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		40	ug/L	
00920	MAGNESIUM (MG/L)		3	mg/L	
01055	MANGANESE, TOTAL (UG/L AS MN)	<	50	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		7.7	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.01		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		33.29		
00932	SODIUM, CALCULATED, PERCENT		97	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		400	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1430	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		315	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1072	mg/L	

Water Quality Analysis

Sample Date: 2/20/1964 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Department of Health

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: raw sample from well

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		6	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		413	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		489.36	mg/L	
00910	CALCIUM (MG/L)		6	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		7.2	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		83	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.5	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		23	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)	<	100	ug/L	
00920	MAGNESIUM (MG/L)		2	mg/L	
01055	MANGANESE, TOTAL (UG/L AS MN)	<	20	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.4	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.8		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		34.05		
00932	SODIUM, CALCULATED, PERCENT		97	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		377	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1914	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		326	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1044	mg/L	

Water Quality Analysis

Sample Date: 5/14/1965 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Department of Health

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: raw sample from well

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		4.17	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		422.98	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		506	mg/L	
00910	CALCIUM (MG/L)		7	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		5	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		82	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.4	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		33	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		4	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.4	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.78		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		27.86		
00932	SODIUM, CALCULATED, PERCENT		95	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		373	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1870	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		279	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1001	mg/L	

Water Quality Analysis

Sample Date: 3/18/1966 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Department of Health

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: raw sample from well

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		4	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		411	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		491.8	mg/L	
00910	CALCIUM (MG/L)		6	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		4.8	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		84	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.3	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		27	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)	<	20	ug/L	
00920	MAGNESIUM (MG/L)		3	mg/L	
01055	MANGANESE, TOTAL (UG/L AS MN)	<	50	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		0.5	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.4	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.67		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		31.63		
00932	SODIUM, CALCULATED, PERCENT		96	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		380	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1859	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		317	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1039	mg/L	

Water Quality Analysis

Sample Date: 5/23/1968 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Department of Health

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: raw sample from well

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		5	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		382	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		453.97	mg/L	
00910	CALCIUM (MG/L)		7	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		6	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		82	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.1	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		25	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		100	ug/L	
00920	MAGNESIUM (MG/L)		2	mg/L	
01055	MANGANESE, TOTAL (UG/L AS MN)	<	50	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		1	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.5	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.13		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		27.29		
00932	SODIUM, CALCULATED, PERCENT		96	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		318	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1530	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		222	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		863	mg/L	

Water Quality Analysis

Sample Date: 8/8/1969 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Department of Health

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: raw sample from well

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		3	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		411	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		494.24	mg/L	
00910	CALCIUM (MG/L)		8	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		3.6	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		82	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.4	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		32	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		3	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.4	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.57		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		29.08		
00932	SODIUM, CALCULATED, PERCENT		96	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		380	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1904	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		331	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1053	mg/L	

Water Quality Analysis

Sample Date: 5/21/1970 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Department of Health

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: raw sample from well

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		3	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		415	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		499.12	mg/L	
00910	CALCIUM (MG/L)		8	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		3.6	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		82	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.5	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		32	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)	<	20	ug/L	
00920	MAGNESIUM (MG/L)		3	mg/L	
01055	MANGANESE, TOTAL (UG/L AS MN)	<	50	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.4	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.65		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		29.39		
00932	SODIUM, CALCULATED, PERCENT		96	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		384	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1890	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		326	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1054	mg/L	

Water Quality Analysis

Sample Date: 5/28/1971 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Department of Health

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: raw sample from well

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		5	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		411	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		489.36	mg/L	
00910	CALCIUM (MG/L)		8	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		6	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		80	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.4	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		32	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		3	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.5	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.57		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		29.54		
00932	SODIUM, CALCULATED, PERCENT		96	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		386	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1877	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		345	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1071	mg/L	

Water Quality Analysis

Sample Date: 7/26/1972 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Department of Health

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: raw sample from well

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		410	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		500.34	mg/L	
00910	CALCIUM (MG/L)		11	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		82	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.5	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		35	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		2	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.3	SU	
00937	POTASSIUM, TOTAL (MG/L AS K)		2	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.49		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		27.46		
00932	SODIUM, CALCULATED, PERCENT		95	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		377	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1890	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		334	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1056	mg/L	

Water Quality Analysis

Sample Date: 5/16/1974 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Department of Health

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: raw sample from well

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		8	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		414	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		485.7	mg/L	
00910	CALCIUM (MG/L)		9	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		9.6	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		82	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.2	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		30	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)	<	100	ug/L	
00920	MAGNESIUM (MG/L)		2	mg/L	
01055	MANGANESE, TOTAL (UG/L AS MN)	<	100	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.5	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.67		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		30.23		
00932	SODIUM, CALCULATED, PERCENT		96	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		385	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1917	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		340	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1069	mg/L	

Water Quality Analysis

Sample Date: 8/14/1975 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Department of Health

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: raw sample from well

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		8	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		414	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		485.7	mg/L	
00910	CALCIUM (MG/L)		8	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		9.6	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		85	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.5	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		36	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)	<	20	ug/L	
00920	MAGNESIUM (MG/L)		4	mg/L	
01055	MANGANESE, TOTAL (UG/L AS MN)	<	50	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.5	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.55		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		27.97		
00932	SODIUM, CALCULATED, PERCENT		95	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		388	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1958	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		341	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1077	mg/L	

Water Quality Analysis

Sample Date: 8/12/1976 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Department of Health

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: raw sample from well

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		12	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		407	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		467.39	mg/L	
00910	CALCIUM (MG/L)		11	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		14.4	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		83	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.1	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		35	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		60	ug/L	
00920	MAGNESIUM (MG/L)		2	mg/L	
01055	MANGANESE, TOTAL (UG/L AS MN)	<	50	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		0.6	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.7	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.43		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		29.35		
00932	SODIUM, CALCULATED, PERCENT		96	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		403	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1958	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		352	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1097	mg/L	

Water Quality Analysis

Sample Date: 7/13/1999 **Sample Time:** 0910 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: LCRA - Lower Colorado River Authority **Reliability:** Sampled using TWDB protocols

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
39086	ALKALINITY FIELD DISSOLVED AS CACO3		418	mg/L as CACO3	
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		9	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		394	mg/L as CACO3	
01106	ALUMINUM, DISSOLVED (UG/L AS AL)		4.7	ug/L	
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	<	1	ug/L	
01000	ARSENIC, DISSOLVED (UG/L AS AS)	<	2	ug/L	
01005	BARIUM, DISSOLVED (UG/L AS BA)		42.8	ug/L	
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1	ug/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		458.85	mg/L	
01020	BORON, DISSOLVED (UG/L AS B)		707	ug/L	
71870	BROMIDE, DISSOLVED, (MG/L AS BR)		0.3	mg/L	
01025	CADMIUM, DISSOLVED (UG/L AS CD)	<	1	ug/L	
00915	CALCIUM, DISSOLVED (MG/L AS CA)		3.98	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		10.8	mg/L	
00941	CHLORIDE, DISSOLVED (MG/L AS CL)		78.5	mg/L	
01030	CHROMIUM, DISSOLVED (UG/L AS CR)		4.9	ug/L	
01035	COBALT, DISSOLVED (UG/L AS CO)	<	1	ug/L	
01040	COPPER, DISSOLVED (UG/L AS CU)		11.8	ug/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		18	mg/L as CACO3	
01046	IRON, DISSOLVED (UG/L AS FE)		22	ug/L	
01049	LEAD, DISSOLVED (UG/L AS PB)	<	1	ug/L	
01130	LITHIUM, DISSOLVED (UG/L AS LI)		101.1	ug/L	
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		2	mg/L	
01056	MANGANESE, DISSOLVED (UG/L AS MN)		2.6	ug/L	
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)		2.7	ug/L	
01065	NICKEL, DISSOLVED (UG/L AS NI)	<	1	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.04	mg/L as NO3	
00631	NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N)	<	0.01	mg/L as N	

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)		0.647	mg/L as N	
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)		0.706	mg/L as N	
00090	OXIDATION REDUCTION POTENTIAL (ORP), MILLIVOLTS		137.2	MV	
00400	PH (STANDARD UNITS), FIELD		8.3	SU	
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	<	0.04	mg/L as P	
00935	POTASSIUM, DISSOLVED (MG/L AS K)		2.09	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.52		
01145	SELENIUM, DISSOLVED (UG/L AS SE)	<	4	ug/L	
00955	SILICA, DISSOLVED (MG/L AS SI02)		16.3	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		35.01		
00932	SODIUM, CALCULATED, PERCENT		97	PCT	
00930	SODIUM, DISSOLVED (MG/L AS NA)		343	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1577	MICR	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		519	ug/L	
00946	SULFATE, DISSOLVED (MG/L AS SO4)		279	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		35.9	C	
01057	THALLIUM, DISSOLVED (UG/L AS TL)	<	1	ug/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		963	mg/L	
01085	VANADIUM, DISSOLVED (UG/L AS V)		1.3	ug/L	
01090	ZINC, DISSOLVED (UG/L AS ZN)		52	ug/L	

Water Quality Analysis

Sample Date: 9/9/2003 **Sample Time:** 1216 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: LCRA - Lower Colorado River Authority **Reliability:** Sampled using TWDB protocols

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
39086	ALKALINITY FIELD DISSOLVED AS CACO3		340	mg/L as CACO3	
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		2.22	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		348	mg/L as CACO3	
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	<	4	ug/L	
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	<	1	ug/L	
01000	ARSENIC, DISSOLVED (UG/L AS AS)	<	2	ug/L	
01005	BARIUM, DISSOLVED (UG/L AS BA)		140	ug/L	
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1	ug/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		419.26	mg/L	
01020	BORON, DISSOLVED (UG/L AS B)		736	ug/L	
71870	BROMIDE, DISSOLVED, (MG/L AS BR)		0.399	mg/L	
01025	CADMIUM, DISSOLVED (UG/L AS CD)	<	1	ug/L	
00915	CALCIUM, DISSOLVED (MG/L AS CA)		26.8	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		2.66	mg/L	
00941	CHLORIDE, DISSOLVED (MG/L AS CL)		57.7	mg/L	
01030	CHROMIUM, DISSOLVED (UG/L AS CR)		1.91	ug/L	
01035	COBALT, DISSOLVED (UG/L AS CO)	<	1	ug/L	
01040	COPPER, DISSOLVED (UG/L AS CU)		2.35	ug/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.13	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		118	mg/L as CACO3	
01046	IRON, DISSOLVED (UG/L AS FE)		59.6	ug/L	
01049	LEAD, DISSOLVED (UG/L AS PB)	<	1	ug/L	
01130	LITHIUM, DISSOLVED (UG/L AS LI)		177	ug/L	
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		11.8	mg/L	
01056	MANGANESE, DISSOLVED (UG/L AS MN)		8.05	ug/L	
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)		3.01	ug/L	
01065	NICKEL, DISSOLVED (UG/L AS NI)	<	1	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.09	mg/L as NO3	
00631	NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N)	<	0.02	mg/L as N	

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00400	PH (STANDARD UNITS), FIELD		8.07	SU	
00935	POTASSIUM, DISSOLVED (MG/L AS K)		3.01	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		4.65		
01145	SELENIUM, DISSOLVED (UG/L AS SE)	<	4	ug/L	
00955	SILICA, DISSOLVED (MG/L AS SI02)		17.3	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		24.58		
00932	SODIUM, CALCULATED, PERCENT		91	PCT	
00930	SODIUM, DISSOLVED (MG/L AS NA)		607	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		2750	MICR	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		3040	ug/L	
00946	SULFATE, DISSOLVED (MG/L AS SO4)		985	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		35.4	C	
01057	THALLIUM, DISSOLVED (UG/L AS TL)	<	1	ug/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1921	mg/L	
01085	VANADIUM, DISSOLVED (UG/L AS V)	<	1	ug/L	
01090	ZINC, DISSOLVED (UG/L AS ZN)		5.93	ug/L	

Water Quality Analysis

Sample Date: 7/19/2006 **Sample Time:** **Sample Number:** 1 **Collection Entity:** Municipal Water Agency or Public Water Supply Corp

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: Laboratory Unknown **Reliability:** Reliability unknown or not available

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	<	0.01	mg/L as N	
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	<	0.01	mg/L as N	

Water Quality Analysis

Sample Date: 8/9/2007 **Sample Time:** 1245 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: Energy Labs Inc. **Reliability:** Sampled using TWDB protocols

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
39086	ALKALINITY FIELD DISSOLVED AS CACO3		430	mg/L as CACO3	
82244	ALKALINITY PHENOLPHTHALEIN FIELD DATA (MG/L)		2	mg/L	
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		21	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		431	mg/L as CACO3	
01106	ALUMINUM, DISSOLVED (UG/L AS AL)		6	ug/L	
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	<	1	ug/L	
01000	ARSENIC, DISSOLVED (UG/L AS AS)	<	1	ug/L	
01005	BARIUM, DISSOLVED (UG/L AS BA)		47	ug/L	
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1	ug/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		474.71	mg/L	
01020	BORON, DISSOLVED (UG/L AS B)		682	ug/L	
01025	CADMIUM, DISSOLVED (UG/L AS CD)		7	ug/L	
00915	CALCIUM, DISSOLVED (MG/L AS CA)		8.4	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		25.2	mg/L	
00941	CHLORIDE, DISSOLVED (MG/L AS CL)		75	mg/L	
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	<	1	ug/L	
01035	COBALT, DISSOLVED (UG/L AS CO)	<	1	ug/L	
01040	COPPER, DISSOLVED (UG/L AS CU)	<	1	ug/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.5	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		34	mg/L as CACO3	
01046	IRON, DISSOLVED (UG/L AS FE)	<	30	ug/L	
01049	LEAD, DISSOLVED (UG/L AS PB)	<	1	ug/L	
01130	LITHIUM, DISSOLVED (UG/L AS LI)		112	ug/L	
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		3	mg/L	
01056	MANGANESE, DISSOLVED (UG/L AS MN)		2	ug/L	
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)		3	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.44	mg/L as NO3	
00631	NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N)	<	0.1	mg/L as N	
00400	PH (STANDARD UNITS), FIELD		8.19	SU	

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00935	POTASSIUM, DISSOLVED (MG/L AS K)		2.1	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.95		
01145	SELENIUM, DISSOLVED (UG/L AS SE)		1	ug/L	
00955	SILICA, DISSOLVED (MG/L AS SI02)		14.2	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		28.79		
00932	SODIUM, CALCULATED, PERCENT		96	PCT	
00930	SODIUM, DISSOLVED (MG/L AS NA)		382	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1616	MICR	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		668	ug/L	
00946	SULFATE, DISSOLVED (MG/L AS SO4)		332	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		35.9	C	
01057	THALLIUM, DISSOLVED (UG/L AS TL)	<	1	ug/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1079	mg/L	
01085	VANADIUM, DISSOLVED (UG/L AS V)	<	1	ug/L	
01090	ZINC, DISSOLVED (UG/L AS ZN)		5	ug/L	

Water Quality Analysis

Sample Date: 3/31/2011 **Sample Time:** 0930 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: LCRA - Lower Colorado River Authority **Reliability:** Sampled using TWDB protocols

Collection Remarks: Lab Calculated Anion/Cation Chg Bal set to TWDB Calculated Value due to an error in the lab calculated formula

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
39086	ALKALINITY FIELD DISSOLVED AS CACO3		382	mg/L as CACO3	
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		5	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		378	mg/L as CACO3	
01503	ALPHA, DISSOLVED (PC/L)	<	10.7	PC/L	6
01106	ALUMINUM, DISSOLVED (UG/L AS AL)		4.7	ug/L	
50938	ANION/CATION CHG BAL, PERCENT		0.42	PCT	
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	<	1	ug/L	
01000	ARSENIC, DISSOLVED (UG/L AS AS)	<	2	ug/L	
01005	BARIUM, DISSOLVED (UG/L AS BA)		56.4	ug/L	
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1	ug/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		449.08	mg/L	
01020	BORON, DISSOLVED (UG/L AS B)		687	ug/L	
71870	BROMIDE, DISSOLVED, (MG/L AS BR)		0.63	mg/L	
01025	CADMIUM, DISSOLVED (UG/L AS CD)	<	1	ug/L	
00915	CALCIUM, DISSOLVED (MG/L AS CA)		15.6	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		6	mg/L	
00941	CHLORIDE, DISSOLVED (MG/L AS CL)		58.1	mg/L	
01030	CHROMIUM, DISSOLVED (UG/L AS CR)		8.7	ug/L	
01035	COBALT, DISSOLVED (UG/L AS CO)	<	1	ug/L	
01040	COPPER, DISSOLVED (UG/L AS CU)		5.1	ug/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.18	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		69	mg/L as CACO3	
01046	IRON, DISSOLVED (UG/L AS FE)	<	51	ug/L	
01049	LEAD, DISSOLVED (UG/L AS PB)	<	1	ug/L	
01130	LITHIUM, DISSOLVED (UG/L AS LI)		130	ug/L	
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		6.91	mg/L	
01056	MANGANESE, DISSOLVED (UG/L AS MN)		3.6	ug/L	
71890	MERCURY, DISSOLVED (UG/L AS HG)	<	0.2	ug/L	
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)		3	ug/L	

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.04	mg/L as NO3	
00631	NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N)	<	0.04	mg/L as N	
00400	PH (STANDARD UNITS), FIELD		8.2	SU	
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	<	0.02	mg/L as P	
00935	POTASSIUM, DISSOLVED (MG/L AS K)		2.3	mg/L	
09511	RADIUM 226, DISSOLVED, RADON METHOD, PC/L	<	0.2	PC/L	0.09
81366	RADIUM 228, DISSOLVED (PC/L AS RA-228)	<	1.1	PC/L	0.66
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		6.21		
01145	SELENIUM, DISSOLVED (UG/L AS SE)		5.3	ug/L	
00955	SILICA, DISSOLVED (MG/L AS SI02)		16.4	mg/L as SIO2	
01075	SILVER, DISSOLVED (UG/L AS AG)	<	1	ug/L	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		24.8		
00932	SODIUM, CALCULATED, PERCENT		94	PCT	
00930	SODIUM, DISSOLVED (MG/L AS NA)		468	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		3570	MICR	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		1760	ug/L	
00946	SULFATE, DISSOLVED (MG/L AS SO4)		591	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		34.6	C	
01057	THALLIUM, DISSOLVED (UG/L AS TL)	<	1	ug/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1389	mg/L	
22703	URANIUM, NATURAL, DISSOLVED (UG/L AS U)	<	1	ug/L	
01085	VANADIUM, DISSOLVED (UG/L AS V)		2.3	ug/L	
01090	ZINC, DISSOLVED (UG/L AS ZN)	<	4.1	ug/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.

STATE OF TEXAS WELL REPORT for Tracking #537668

Owner:	**DWU**	Owner Well #:	**BH-9**
Address:	**1500 Marilla St Dallas, TX 75220**	Grid #:	**33-10-4**
Well Location:	**Harry Hines at Brook Hollow Dallas, TX**	Latitude:	**32° 49' 09.36" N**
		Longitude:	**096° 50' 46.92" W**
Well County:	**Dallas**	Elevation:	**431 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Piezometer - water level measurements**

Drilling Start Date: **1/14/2020** Drilling End Date: **1/14/2020**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8**	**0**	**60**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Perforated or Slotted**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**2**	**Cement 2 Bags/Sacks**
	2	**19**	**Bentonite 9 Bags/Sacks**
	19	**40**	**Sand 12 Bags/Sacks**

Seal Method: **Poured**

Sealed By: **Driller**

Distance to Property Line (ft.): **N/A**

Distance to Septic Field or other concentrated contamination (ft.): **N/A**

Distance to Septic Tank (ft.): **N/A**

Method of Verification: **N/A**

Surface Completion: **Flush Mount-Vault** **Surface Completion by Driller**

Water Level: **19 ft.** below land surface on **2020-01-15** Measurement Method: **Electric Line**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Description (number of sacks & material)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Plug Information:	**Bentonite**	**40**	**60**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Fugro**

2880 Virgo Lane
Dallas, TX 75229

Driller Name: **Donald R Ives** License Number: **54846**

Comments: **None**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**19**	**Brown sand; soft moist**
19	**25**	**Gravel/Water**
25	**60**	**Grey Shale;hard, laminated, moist**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	**Blank**	**New Plastic (PVC)**		**0**	**19**
2	**Perforated or Slotted**	**New Plastic (PVC)**	**0.010**	**19**	**40**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

File original copy with
Texas Water Commission
P. O. Box 2311, Capitol Station
Austin 11, Texas

State of Texas

DRILLERS LOG AND WELL DATA REPORT

For use by TWC only
Well No. 33-10-4A
Located on map UCS
By RL Date 66
Map no. 57-198

1) Well Owner: Marvin McAdams (Name) 2829 Seaton (Street or RFD) Dallas, (City) Texas (State)

2) Land Owner: Marvin McAdams (Name) 2829 Seaton (Street or RFD) Dallas, (City) Texas (State)

3) Intended use: Industrial ☐ ; Municipal ☐ ; Irrigation ☐ ; Other Home water supply

4) Location of well: County Dallas Labor _____ League _____ Abstract No. _____

NW¼ NE¼ SW¼ SE¼ of Section _____ Block No. _____ Survey _____
(Circle as many as are known)

_____ miles in _____ (NE, SW, etc.) direction

from _____ (Town)

North

Well supplies a rent house at 7310 Parwelk Street in the northwest part of the City of Dallas

Sketch map of well location with distances from two section or survey lines, and to landmarks, roads, and creeks.

DRILLERS LOG OF WELL

Method of drilling: Rotary Diameter of hole 6¼ in. Date drilled 4-4-66

All measurements made from 0 ft. above ground level.

From (ft)	To (ft)	Description and color of formation material	From (ft)	To (ft)	Description and color of formation material
0	10	Red Sandy clay			
10	20	Sand			
20	31	Clay			
31	35	Sand			
35	38	Clay			
38	40	Gravel			
40	44	Clay			
44	45	Shale			

(Use continuation sheets if necessary)

COMPLETION DATA

COMPLETION

Straight wall ☒
Under reamed ☐
Gravel packed ☒ with pea gravel on outside of casing
Open hole ☐
Other _____

CASING

Type: Old ☐ New ☒
Cemented from _____ ft.
to _____ ft.

Diameter (inches)	Setting from (ft)	Setting to (ft)
4½ o.d.	0	45

SCREEN

Type _____
Perforated ☒ Slotted ☐

Diameter (inches)	Setting from (ft)	Setting to (ft)
4½ o.d.	33½	35
4½ o.d.	39	40

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

Signed: [signature] PIERCE PUMP COMPANY (Company Name) Reg. No. 401

Please attach electric log, chemical analysis, and other pertinent information if available.

If well was tested by your company or if you installed the permanent pump please complete the following:

WATER LEVEL AND PUMP DATA

Static water level 27
ft. below ground line

Pumping level feet	hours	gpm
30	1	8

Pump type Deep well jet
Designed pumping rate 480 gpm ☐ gph ☒
Type power unit Electric motor
Horsepower 1/2
Depth to bowls, cylinder, jet, etc., 38 ft. below pump base.

Name of contractor testing well or installing permanent pump if other than your company: _____

C-34 (62-4)

33095F

Send original copy by certified mail to the Texas Water Development Board P. O. Box 12386 Austin, Texas 78711

State of Texas

WATER WELL REPORT

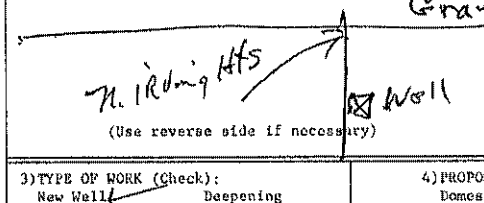
For TWDB use only
Well No. 33-07-61
Located on map
Received: 1-9-70

1) OWNER:
Person having well drilled Alfred Piano (Name) Address 7713 N. Irving Hts (Street or RFD) Irving (City) Texas (State)

Landowner Same (Name) Address Same (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Dallas 7 miles in N Central (N.E., S.W., etc.) direction from (N) Irving (Town)

Locate by sketch map showing landmarks, roads, creeks, hiway number, etc.*



(Use reverse side if necessary)

or

Give legal location with distances and directions from adjacent sections or survey lines.

Labor _____ League _____

Block _____ Survey _____

Abstract No. _____

(NW¼ NE¼ SW¼ SE¼) of Section _____

3) TYPE OF WORK (Check):
New Well ✓ Deepening
Reconditioning Plugging

4) PROPOSED USE (Check):
Domestic Industrial Municipal
Irrigation Test Well Other (yard)

5) TYPE OF WELL (Check):
Rotary ✓ Driven Dug
Cable Jetted Bored

6) WELL LOG:
Diameter of hole 9 in. Depth drilled 42' ft. Depth of completed well 42' ft. Date drilled 7/4/69

All measurements made from 0' ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0	3'	Sandy Loam
3'	29'	Yellow Clay
29	35'	Sand
35	39	Gravel & Clay
39	42	Shale Black

(Use reverse side if necessary)

9) Casing:
Type: Old ✓ New Steel ✓ Plastic Other
Cemented from _____ ft. to _____ ft.

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Gage

10) SCREEN:
Type _____
Perforated Slotted

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Slot Size

7) COMPLETION (Check):
Straight wall Gravel packed ✓ Other
Under reamed Open Hole

8) WATER LEVEL:
Static level _____ ft. below land surface Date _____
Artesian pressure _____ lbs. per square inch Date _____
Depth to pump bowls, cylinder, jet, etc., _____ ft. below land surface.

11) WELL TESTS:
Was a pump test made? Yes No If yes, by whom?
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.
Bailer test _____ gpm with _____ ft. drawdown after _____ hrs.
Artesian flow _____ gpm
Temperature of water _____

12) WATER QUALITY:
Was a chemical analysis made? Yes No
Did any strata contain undesirable water? Yes No
Type of water? _____ depth of strata _____

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME A. B. Hoipkemeier (Type or Print) Water Well Drillers Registration No. 112

ADDRESS 4445 W. Hiway 183 (Street or RFD) Irving (City) Texas (State)

(Signed) A. B. Hoipkemeier (Water Well Driller) Hoipkemeier Drilling Co. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

TWDBE-GW-53

4811300263

STATE OF TEXAS WELL REPORT for Tracking #631383

Owner:	**Pediatric Health Management Services**	Owner Well #:	**B-2**
Address:	**1935 Medical District Dr Dallas, TX 75235**	Grid #:	**33-10-4**
Well Location:	**5323 Harry Hines Blvd. Dallas, TX**	Latitude:	**32° 49' 19.92" N**
	Piezometer is located on the pavement in the parking lot.	Longitude:	**096° 50' 56.04" W**
Well County:	**Dallas**	Elevation:	**No Data**
Type of Work:	**Geotechnical Piezometer**	Proposed Use:	**Geotechnical Piezometer**

Drilling Start Date: **12/14/2022** Drilling End Date: **12/14/2022**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8**	**0**	**62**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**40**	**62**	**Sand**	**20-40**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**2**	**Concrete 3 Bags/Sacks**
	2	**40**	**Bentonite Chips 11 Bags/Sacks**

Seal Method: **Gravity**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Alternative Procedure Used** **Surface Completion by Driller**

Water Level: **27 ft.** below land surface on **2022-12-14** Measurement Method: **Steel Tape**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Texplor of Dallas, Inc.**

PO Box 793928
Dallas, TX 75379

Driller Name: **Brent Thomason** License Number: **2967**

Apprentice Name: **Cody Sadler**

Comments: **Geotechnical soil boring and 2" piezometer installed for water observation reading.**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	1	6" asphalt flexbase & sand fill
1	18	Sand, clay layers, reddish brown
18	28	Clay, sandy, reddish brown
28	35	Clay, grayish tan, shaley
35	40	Clay, sandy, grayish tan
40	50	Clay, gray
50	58	Sand, clayey & gravel, light brown
58	62	Shale, gray

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	Riser	New Plastic (PVC)	40	0	42
2	Screen	New Plastic (PVC)	40 0.010	42	62

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-17-202

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3317202
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.737778
Latitude (degrees minutes seconds)	32° 44' 16" N
Longitude (decimal degrees)	-96.951945
Longitude (degrees minutes seconds)	096° 57' 07" W
Coordinate Source	+/- 10 Seconds
Aquifer Code	218TWMT - Twin Mountains Formation
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	450
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	2156
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	None
Water Quality Available	Yes
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	U.S. Naval Air Station
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 6/27/1943 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** U.S. Geological Survey

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: **Reliability:** From a report; unknown sample collection & preservation

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		416.39	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		508.14	mg/L	
00910	CALCIUM (MG/L)		5	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		82	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.2	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		17	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		1.3	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		0.2	mg/L as NO3	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.97		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		37.27		
00932	SODIUM, CALCULATED, PERCENT		97	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		349	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		230	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		919	mg/L	

Water Quality Analysis

Sample Date: 10/3/1956 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** U.S. Geological Survey

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: U.S. Geological Survey Lab **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		5	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		414.8	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		494	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		6	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		85	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		13	mg/L as CACO3	
00400	PH (STANDARD UNITS), FIELD		8.4	SU	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1470	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		218	mg/L as SO4	

Water Quality Analysis

Sample Date: 11/15/1961 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Municipal Water Agency or Public Water Supply Corp

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: raw supply

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		399	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		486.92	mg/L	
00910	CALCIUM (MG/L)		4	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		78	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.6	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		14	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		80	ug/L	
00920	MAGNESIUM (MG/L)		1	mg/L	
01055	MANGANESE, TOTAL (UG/L AS MN)		500	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.3	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.7		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		40.79		
00932	SODIUM, CALCULATED, PERCENT		98	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		352	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1730	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		237	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		913	mg/L	

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-17-202

Water Quality Analysis

Sample Date: 11/15/1963 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Municipal Water Agency or Public Water Supply Corp

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: raw supply

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		406	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		495.46	mg/L	
00910	CALCIUM (MG/L)		4	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		79	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.4	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		18	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		110	ug/L	
00920	MAGNESIUM (MG/L)		2	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.3	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.76		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		35.48		
00932	SODIUM, CALCULATED, PERCENT		97	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		348	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1680	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		254	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		933	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-17-203

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3317203
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.738334
Latitude (degrees minutes seconds)	32° 44' 18" N
Longitude (decimal degrees)	-96.951667
Longitude (degrees minutes seconds)	096° 57' 06" W
Coordinate Source	+/- 10 Seconds
Aquifer Code	218TWMT - Twin Mountains Formation
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	442
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	2118
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	None
Water Quality Available	Yes
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	U.S. Naval Air Station
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 9/21/1972 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Municipal Water Agency or Public Water Supply Corp

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: Texas Department of Health **Reliability:** Reliability unknown or not available

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		30	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		396	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		410.04	mg/L	
00910	CALCIUM (MG/L)		6	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		36	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		80	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		0.1	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		19	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)	<	100	ug/L	
00920	MAGNESIUM (MG/L)		1	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		2	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.3	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.54		
00955	SILICA, DISSOLVED (MG/L AS SI02)		14	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		36.44		
00932	SODIUM, CALCULATED, PERCENT		97	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		366	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1620	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		290	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		996	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-10-404

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3310404
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.806389
Latitude (degrees minutes seconds)	32° 48' 23" N
Longitude (decimal degrees)	-96.834167
Longitude (degrees minutes seconds)	096° 50' 03" W
Coordinate Source	+/- 10 Seconds
Aquifer Code	218PLXY - Paluxy Sand
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	410
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	1405
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1910
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	No
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	City of Dallas
Driller	R.H. Dearing and Sons
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-10-405

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3310405
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.806389
Latitude (degrees minutes seconds)	32° 48' 23" N
Longitude (decimal degrees)	-96.834167
Longitude (degrees minutes seconds)	096° 50' 03" W
Coordinate Source	+/- 10 Seconds
Aquifer Code	212WDBN - Woodbine Sand
Aquifer	Woodbine
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	410
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	693
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1910
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	No
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	City of Dallas
Driller	R.H. Dearing and Sons
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-17-201

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3317201
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.723611
Latitude (degrees minutes seconds)	32° 43' 25" N
Longitude (decimal degrees)	-96.933055
Longitude (degrees minutes seconds)	096° 55' 59" W
Coordinate Source	+/- 1 Second
Aquifer Code	212WDBN - Woodbine Sand
Aquifer	Woodbine
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	540
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	274
Well Depth Source	Person Other than Owner
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Domestic
Water Level Observation	None
Water Quality Available	No
Pump	Piston
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Dallas Power and Light
Driller	J.L. Myers
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
6	Blank					

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-17-105

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3317105
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.745
Latitude (degrees minutes seconds)	32° 44' 42" N
Longitude (decimal degrees)	-96.960278
Longitude (degrees minutes seconds)	096° 57' 37" W
Coordinate Source	+/- 10 Seconds
Aquifer Code	212WDBN - Woodbine Sand
Aquifer	Woodbine
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	464
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	485
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	None
Water Quality Available	Yes
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	U.S. Naval Air Station
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 5/20/1958 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** U.S. Geological Survey

Sampled Aquifer: Woodbine Sand

Analyzed Lab: U.S. Geological Survey Lab **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		13.33	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		421.63	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		482	mg/L	
00910	CALCIUM (MG/L)		1.8	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		16	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		24	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.6	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		4	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		0	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		0	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.5	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.34		
00955	SILICA, DISSOLVED (MG/L AS SI02)		11	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		58.5		
00932	SODIUM, CALCULATED, PERCENT		99	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		285	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1170	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		157	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		733	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-17-106

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3317106
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.745
Latitude (degrees minutes seconds)	32° 44' 42" N
Longitude (decimal degrees)	-96.960278
Longitude (degrees minutes seconds)	096° 57' 37" W
Coordinate Source	+/- 10 Seconds
Aquifer Code	212WDBN - Woodbine Sand
Aquifer	Woodbine
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	464
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	417
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	None
Water Quality Available	Yes
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	U.S. Naval Air Station
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 5/20/1958 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Other Federal Agencies

Sampled Aquifer: Woodbine Sand

Analyzed Lab: U.S. Geological Survey Lab **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		13.33	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		444.57	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		510	mg/L	
00910	CALCIUM (MG/L)		1.2	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		16	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		24	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.8	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		3	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		0	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		0	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.6	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.83		
00955	SILICA, DISSOLVED (MG/L AS SI02)		11	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		70.39		
00932	SODIUM, CALCULATED, PERCENT		99	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		280	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1130	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		123	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		707	mg/L	

Water Quality Analysis

Sample Date: 11/15/1961 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Municipal Water Agency or Public Water Supply Corp

Sampled Aquifer: Woodbine Sand

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: raw supply

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		425	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		518.65	mg/L	
00910	CALCIUM (MG/L)		2	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		49	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.5	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		9	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		340	ug/L	
00920	MAGNESIUM (MG/L)	<	1	mg/L	
01055	MANGANESE, TOTAL (UG/L AS MN)		50	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.3	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.32		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		54.78		
00932	SODIUM, CALCULATED, PERCENT		98	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		380	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1743	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		310	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		998	mg/L	

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-17-106

Water Quality Analysis

Sample Date: 11/15/1963 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Municipal Water Agency or Public Water Supply Corp

Sampled Aquifer: Woodbine Sand

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: raw supply

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		420	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		512.55	mg/L	
00910	CALCIUM (MG/L)		2	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		62	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.1	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		9	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		1	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.2	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.22		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		52.48		
00932	SODIUM, CALCULATED, PERCENT		98	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		364	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1793	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		302	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		985	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.

STATE OF TEXAS WELL REPORT for Tracking #218951

Owner:	**Wesley Dawson**	Owner Well #:	**No Data**
Address:	**3421 S Briery Irving, TX 75060**	Grid #:	**33-09-5**
Well Location:	**406 Pecan Drive Irving, TX 75060**	Latitude:	**32° 49' 03" N**
		Longitude:	**096° 57' 21" W**
Well County:	**Dallas**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

Drilling Start Date: **5/20/2010** Drilling End Date: **5/21/2010**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**14**	**0**	**40**
	8.75	**40**	**400**

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**100**	**400**	**Gravel**	**.25**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**10**	**2 portland**
	10	**100**	**7 quick grout**

Seal Method: **Tremie pipe**

Sealed By: **Lyons**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Sleeve Installed**

Water Level: **215 ft.** below land surface on **2010-05-27** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **368**

Well Tests: **Estimated** **Yield: 35 GPM with 10 ft. drawdown after 2 hours**

	Strata Depth (ft.)	Water Type
Water Quality:	**80**	**Woodbine**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Erwin Water Well Drilling**

6991 FM 4
Jacksboro, TX 76458

Driller Name: **Burke Lyons** License Number: **55001**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**36**	**Topsoil sand & gravel**
36	**84**	**Gray clay**
84	**91**	**Tan clay**
91	**96**	**Lime**
96	**152**	**Gray shale**
152	**164**	**Lime**
164	**342**	**Gray shale w/lime streaks**
342	**358**	**Sand & shale streaks**
358	**384**	**Sand**
384	**400**	**Gray shale**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
10	**New**	**Sch 40 PVC**	**0-40**
5	**New**	**Sch 80 PVC**	**0-340**
5	**New**	**Screen**	**340-400 .020**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #427911

Owner:	**UT Southwestern Medical Center**	Owner Well #:	**OW-2**
Address:	**5323 Harry Hines Blvd. MC 9028 Dallas, TX 75390**	Grid #:	**33-10-4**
Well Location:	**SEC of Inwood & Redfield Street Dallas, Texas, TX**	Latitude:	**32° 49' 01.54" N**
		Longitude:	**096° 50' 20.99" W**
	Locations in parking lot	Elevation:	**No Data**
Well County:	**Dallas**		

Type of Work:	**Geotechnical Piezometer**	Proposed Use:	**Ground Water Observation**

Drilling Start Date: **7/5/2016** Drilling End Date: **7/5/2016**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8**	**0**	**64**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**4**	**62**	**Sand**	**16-30**

Annular Seal Data: **No Data**

Seal Method: **Gravity**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Alternative Procedure Used** **Surface Completion by Driller**

Water Level: **42 ft.** below land surface on **2016-07-05** Measurement Method: **Weighted Line**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

The driller did certify that while drilling, deepening or otherwise altering the above described well, injurious water or constituents was encountered and the landowner or person having the well drilled was informed that such well must be completed or plugged in such a manner as to avoid injury or pollution.

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Texplor of Dallas, Inc.**

PO Box 793928
Dallas, TX 75379

Driller Name: **Brent Thomason** License Number: **2967**

Apprentice Name: **Sean Killgore**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	0.5	Asphalt
0.5	12	Clay, brown
12	32	Clay, sandy, tan
32	45	Clay, sandy, gravel, tan
45	56	Sand, tan
56	62	Shale, clay, sand, gray/brown
62	64	Shale, gray

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	Riser	New Plastic (PVC)	40	0	4.5
2	Screen	New Plastic (PVC)	40 0.010	4.5	62

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #427902

Owner:	**UT Southwestern Medical Center**	Owner Well #:	**OW-1**
Address:	**5323 Harry Hines Blvd. MC 9028 Dallas, TX 75390**	Grid #:	**33-10-4**
Well Location:	**SEC of Inwood & Redfield Street Dallas, Texas, TX**	Latitude:	**32° 49' 03.63" N**
		Longitude:	**096° 50' 22.92" W**
	Locations in parking lot	Elevation:	**No Data**
Well County:	**Dallas**		

Type of Work:	**Geotechnical Piezometer**	Proposed Use:	**Ground Water Observation**

Drilling Start Date: **7/1/2016** Drilling End Date: **7/1/2016**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8**	**0**	**40**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**4**	**40**	**Sand**	**16-30**

Annular Seal Data: **No Data**

Seal Method: **Gravity**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Alternative Procedure Used** **Surface Completion by Driller**

Water Level: **29 ft.** below land surface on **2016-07-01** Measurement Method: **Weighted Line**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

The driller did certify that while drilling, deepening or otherwise altering the above described well, injurious water or constituents was encountered and the landowner or person having the well drilled was informed that such well must be completed or plugged in such a manner as to avoid injury or pollution.

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Texplor of Dallas, Inc.**

PO Box 793928
Dallas, TX 75379

Driller Name: **Brent Thoimason** License Number: **2967**

Apprentice Name: **Sean Killgore**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	0.5	Asphalt
0.5	12	Clay, dark brown
12	35	Clay, sandy, brown/tan
35	40	Sand, with gravel, tan

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	Riser	New Plastic (PVC)	40	0	5
2	Screen	New Plastic (PVC)	40 0.010	5	40

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

Send original by certified mail to: Texas Water Commission P.O. Box 13087, Austin, Texas 78711 *Please use black ink.*

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

State of Texas WELL REPORT

Texas Water Well Drillers Board
P.O. Box 13087
Austin, Texas 78711

1) OWNER REX FAULKNER (Name) ADDRESS 1301 IRVIN RD (Street or RFD) IRVING (City) TEXAS (State) 75060 (Zip)

2) LOCATION OF WELL: County DALLAS, 1 miles in SOUTH (NE, SW, etc.) direction from IRVING (Town)

Driller must complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ LEGAL DESCRIPTION:
Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

☒ SEE ATTACHED MAP

3) TYPE OF WORK (Check): ☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check): ☐ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☒ Irrigation ☐ Test Well ☐ Injection ☐ De-Watering

5) DRILLING METHOD (Check): ☐ Driven ☒ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored ☐ Air Rotary ☐ Cable Tool ☐ Other _____

6) WELL LOG:
Date Drilling: Started JAN 3 19 94 Completed JAN 28 19 94

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
9 1/2	Surface	50
7 7/8	50	160
6 3/4	160	295

7) BOREHOLE COMPLETION: ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☒ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from 100 ft. to 295 ft.

From (ft.)	To (ft.)	Description and color of formation material
0	2	TOP SOIL
2	8	GRAY CLAY
8	21	SAND
21	49	SAND/GRAVEL
49	225	DARK GRAY SHALE
225	285	BROKEN SAND
285	295	SHALE
	295	T.D.

(Use reverse side if necessary)

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casting Screen
4	N	PVC CASING	0	235	#40
4	N	PVC SCREEN	235	295	.020

9) CEMENTING DATA [Rule 287.44(1)]
Cemented from 0 ft. to 50 ft. No. of Sacks Used 5
_____ ft. to _____ ft. No. of Sacks Used _____
Method used PRESSURE
Cemented by DRILLER

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13) TYPE PUMP: ☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder ☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 200

10) SURFACE COMPLETION
☒ Specified Surface Slab Installed [Rule 287.44(2)(A)]
☐ Specified Steel Sleeve Installed [Rule 287.44(3)(A)]
☐ Pitless Adapter Used [Rule 287.44(3)(B)]
☐ Approved Alternative Procedure Used [Rule 287.71]

14) WELL TESTS:
Type Test: ☒ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: 18 gpm with 50 ft. drawdown after 3 hrs.

11) WATER LEVEL:
Static level 90 ft. below land surface Date JAN 1994
Artesian flow _____ gpm. Date _____

15) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable constituents?
☐ Yes ☐ No If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☐ No

12) PACKERS: Type: BENTONITE PLUG SET Depth: 95 to 100

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME SEA-LITE DRILLING CO (Type or print) WELL DRILLER'S LICENSE NO. W1820PKL

ADDRESS RR#2 BOX 416 (Street or RFD) CELINA (City) TEXAS (State) 75009 (Zip)

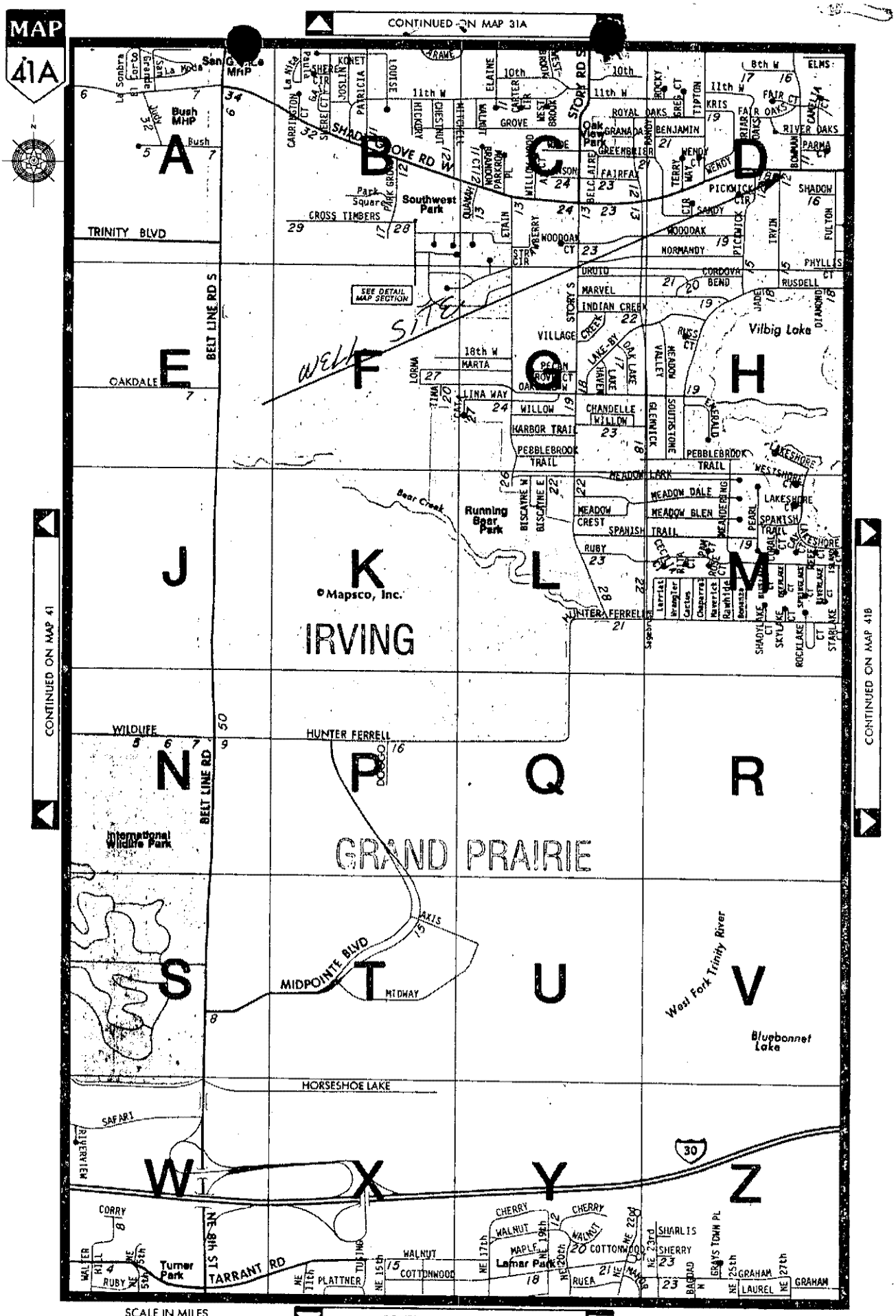
(Signed) R E [illegible] (Licensed Well Driller) (Signed) _____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only: Well No. _____ Located on map 33.09.6

WWD-012 (Rev. 05-16-90)

TEXAS WATER COMMISSION COPY



BOOK PAGE 1070

DETAIL MAP SECTION
STARTS ON INDEX PAGE 187

Please use black ink.
Send original copy by certified mail to the
Texas Department of Water Resources
P. O. Box 13087
Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

Texas Water Well Drillers Board
P. O. Box 13087
Austin, Texas 78711

1) OWNER MARTHA RAGSDALE (Name) Address 2201 LOWER TARRANT G.P. (Street or RFD) TX. (City) (State) (Zip)

2) LOCATION OF WELL:
County DALLAS — miles in — (N.E., S.W., etc.) direction from GRANDPRAIRIE (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. ____ Block No. ____ Township ____
Abstract No. ____ Survey Name ____
Distance and direction from two intersecting section or survey lines ____

☒ See attached map. on 32-24-6

3) TYPE OF WORK (Check):
☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):
☒ Domestic ☐ Industrial ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Other ____

5) DRILLING METHOD (Check):
☐ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored ☒ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other ____

6) WELL LOG:
Date drilled 12-12-89

DIAMETER OF HOLE Dia. (in.)	From (ft.)	To (ft.)
7"	Surface	205

From (ft.)	To (ft.)	Description and color of formation material
0	2	TOP SOIL
2	17	SHALE
17	21	SAND
21	29	SHALE
29	39	SAND
39	46	SAND
46	87	SANDY SHALE
87	93	SAND
93	102	SHALE
102	115	SANDY SHALE
115	160	SAND
160	177	SANDY SHALE
177	193	SAND
193	205	SHALE

(Use reverse side if necessary)

7) BOREHOLE COMPLETION:
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☒ Gravel Packed ☐ Other ____
If Gravel Packed give interval . . . from 205 ft. to 160 ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgf., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
4½	N	PLASTIC	200	SURF	
		(PERF. 190-170)			

9) CEMENTING DATA [Rule 319.44(b)]
Cemented from 160 ft. to 140 ft.
20 ft. to SURF. ft.
Method used HAND MIXED & PLACED
Cemented by GEYER DRILL. CO.

10) SURFACE COMPLETION
☐ Specified Surface Slab Installed [Rule 319.44(c)]
☐ Pitless Adapter Used [Rule 319.44(d)]
☒ Approved Alternative Procedure Used [Rule 319.71]

11) WATER LEVEL:
Static level 120 ft. below land surface Date ____
Artesian flow ____ gpm. Date ____

12) PACKERS: Type Depth
NONE

13) TYPE PUMP:
☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder
☐ Other ____
Depth to pump bowls, cylinder, jet, etc., 185' ft.

14) WELL TESTS:
Type Test: ☐ Pump ☒ Bailer ☐ Jetted ☐ Estimated
Yield: 20 gpm with ____ ft. drawdown after 2 hrs.

15) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? ____ Depth of strata ____
Was a chemical analysis made? ☐ Yes ☒ No

RECEIVED
SEP 5 1990
TEXAS WATER COMMISSION

I here by certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 12 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME GEYER DRILL. CO. INC. (Type or Print) Water Well Driller's License No. 1505

ADDRESS 108 W. BROAD (Street or RFD) MANSFIELD (City) TX. (State) 76063 (Zip)

(Signed) R. B. [signature] (Licensed Water Well Driller) (Signed) ____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

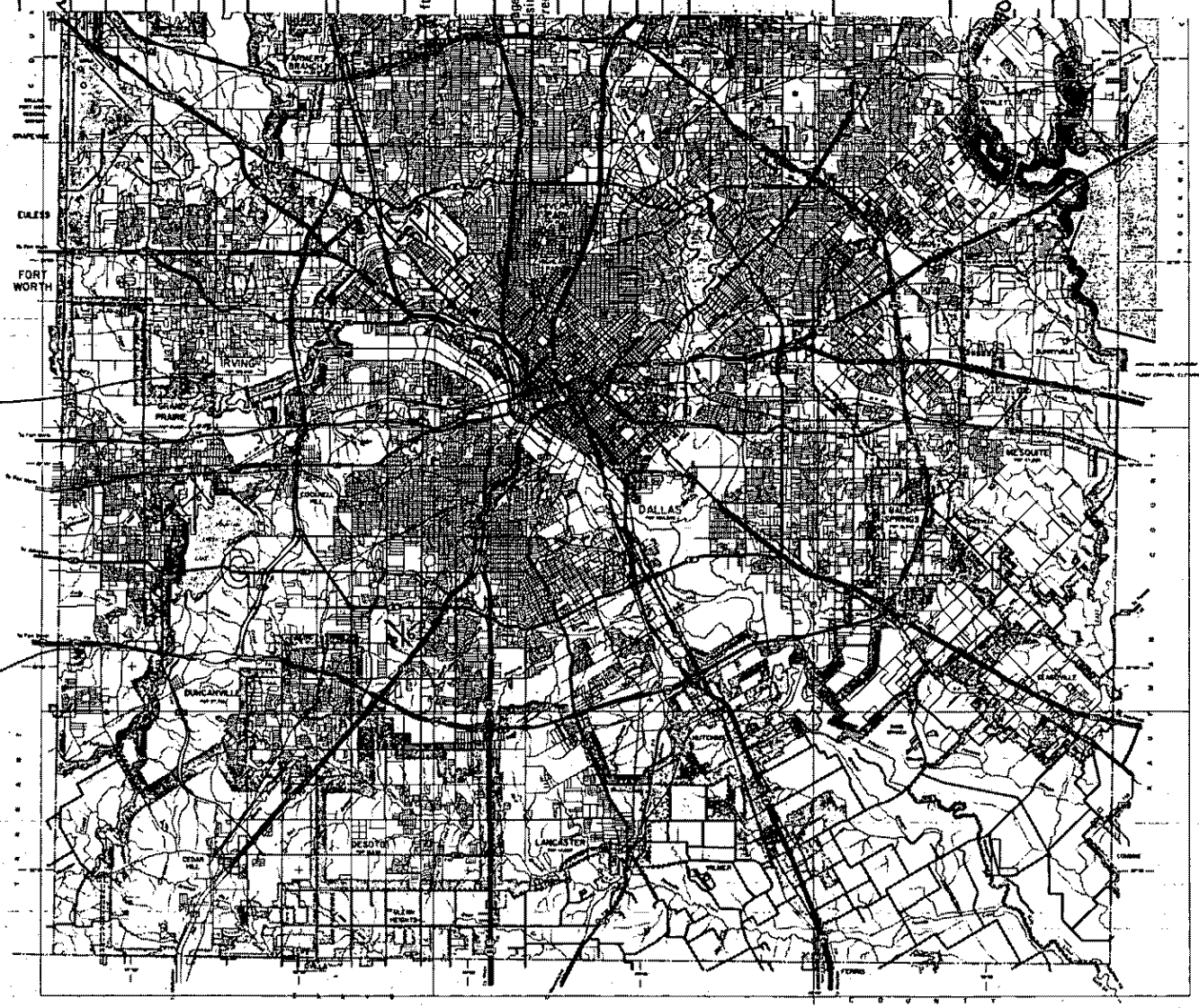
For TDWR use only
Well No. 33-09-7
Located on map ____

DEPARTMENT OF WATER RESOURCES COPY

TDWR-0392 (12/29/83)

MARTHA RAGSDALE

MIKE STILES



KEY TO COUNTIES

KEY TO SUPPLEMENTARY SHEETS

GENERAL HIGHWAY MAP

DALLAS COUNTY

TEXAS

PREPARED BY THE

STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION

TRANSPORTATION PLANNING DIVISION

IN COOPERATION WITH THE

U.S. DEPARTMENT OF TRANSPORTATION

FEDERAL HIGHWAY ADMINISTRATION

1981

HIGHWAYS REVISED TO JUNE 1, 1980

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NOV - 3 1978
DEPT. OF WATER RESOURCES

7E Dup-

Send original copy by certified mail to the
Texas Department of Water Resources
P. O. Box 13087
Austin, Texas 78711

State of Texas
WATER WELL REPORT

For TDWR use only
Well No. 33-08-7E
Located on map 1/24
Received: 79 / 81C

1) OWNER Bill Welch (Name) Address 818 Milner (Street or RFD) Irving (City) Texas (State) 75061 (Zip)

2) LOCATION OF WELL:
County Dallas, _____ miles in _____ (N.E., S.W., etc.) direction from Irving (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

☐ See attached map.

3) TYPE OF WORK (Check):
☒ New Well ☐ Deepening
☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):
☒ Domestic ☐ Industrial ☐ Public Supply
☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check):
☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored
☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:
Date drilled 10-2-78

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
6 3/4	Surface	60

From (ft.)	To (ft.)	Description and color of formation material
0	10	Top Soil
10	30	Blue Clay
30	40	Sand
40	60	Blue Clay

(Use reverse side if necessary)

7) BOREHOLE COMPLETION:
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☒ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from 30 ft. to 60 ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgf., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
4	N	PVC	0	15	SC40
4	N	PVC Slotted	15	60	1/16

CEMENTING DATA
Cemented from 0 ft. to 10 ft.
Method used gravity
Cemented by _____ (Company or Individual)

9) WATER LEVEL:
Static level 30 ft. below land surface Date 10-2-78
Artesian flow _____ gpm. Date _____

10) PACKERS: Type Depth

11) TYPE PUMP:
☐ Turbin ☐ Jet ☐ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., _____ ft.

12) WELL TESTS:
☐ Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.

13) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☐ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME C. K. Curtiss (Type or Print) Water Well Drillers Registration No. 1875

ADDRESS 520 North Haskell (Street or RFD) Dallas (City) Texas (State) 75246 (Zip)

(Signed) C. K. Curtiss (Water Well Driller) Kentey Waterwells (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

TDWR-0392

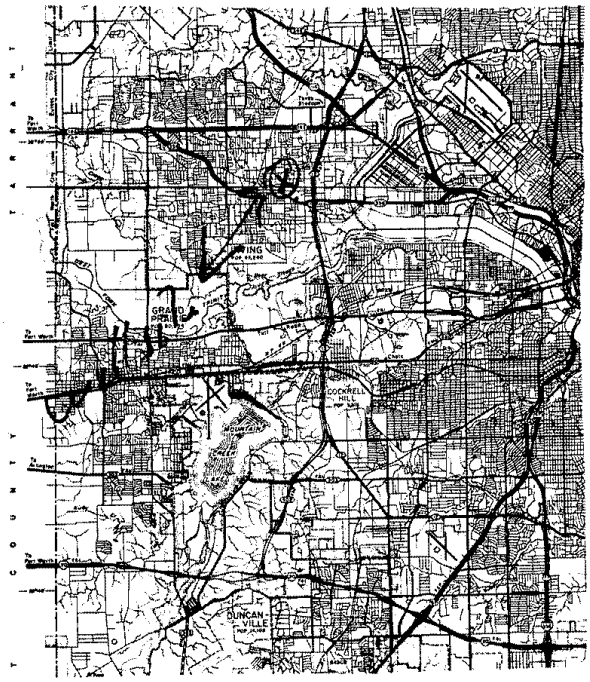
2) LOCATION OF WELL:

The sketch showing the well location must be as accurate as possible, showing landmarks, in sufficient detail so that the well may be plotted on a General Highway Map of the county in which the well is located.

Reference points from which distances are measured and directions given should be of a permanent nature (e.g. highway intersections, center of towns, river and creek bridges, railroad crossings). The distance and direction from the nearest town should always be indicated.

When giving a legal description include a sketch showing location of the well within the described area, e.g. survey abstract.

Information furnished in Section 2 of the TDWR-0392 is very important. Unless the well can be accurately located on a map the value of the other data contained in the Report is greatly reduced.



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APR 5 '79
CR/TDWR

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-10-402

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3310402
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.823055
Latitude (degrees minutes seconds)	32° 49' 23" N
Longitude (decimal degrees)	-96.844445
Longitude (degrees minutes seconds)	096° 50' 40" W
Coordinate Source	+/- 1 Second
Aquifer Code	218PLXY - Paluxy Sand
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	428
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	1527
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	1/0/1956
Drilling Method	Mud (Hydraulic) Rotary
Borehole Completion	Gravel Pack w/Screen

Well Type	Withdrawal of Water
Well Use	Industrial
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Exchange Park Utilities
Driller	J.L. Myers Sons
Other Data Available	Aquifer Test; Drillers Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	6/4/1975
Last Update Date	3/4/2020

Remarks	Reported yield 215 GPM in 1956. Aquifer test and results in TWDB file.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
16	Blank	Steel			0	60
11	Blank	Steel			0	1332
7	Blank	Steel			1160	1332
7	Screen	Steel			1332	1340
7	Blank	Steel			1340	1344
7	Screen	Steel			1344	1360
7	Blank	Steel			1360	1385
7	Screen	Steel			1385	1390
7	Blank	Steel			1390	1418
7	Screen	Steel			1418	1443
7	Blank	Steel			1443	1447
7	Screen	Steel			1447	1457
7	Blank	Steel			1457	1475
7	Screen	Steel			1475	1481
7	Blank	Steel			1481	1488
7	Screen	Steel			1488	1514
7	Blank	Steel			1514	1527

Well Tests - No Data

Lithology - No Data

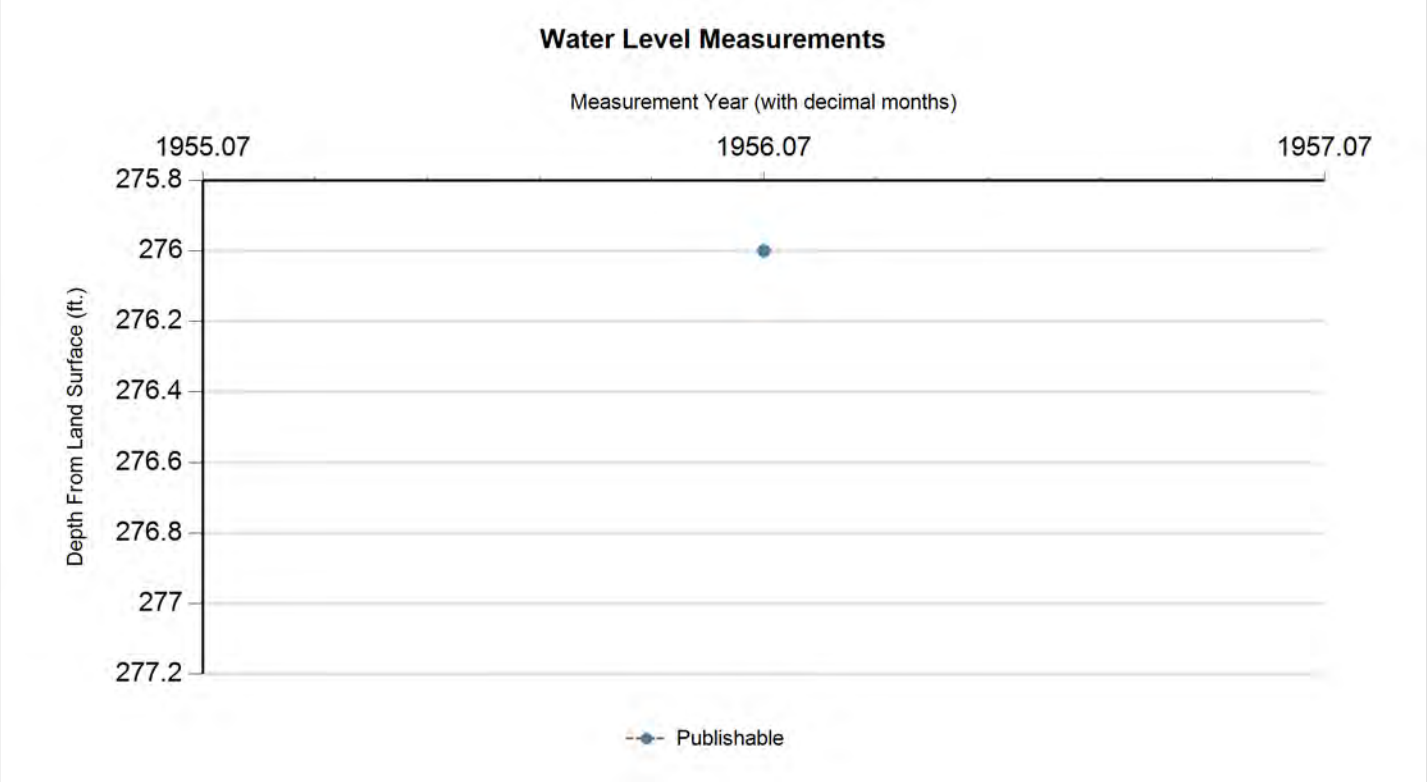
Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	1/25/1956		276		152	1	Registered Water Well Driller	Unknown		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis

Sample Date: 6/4/1975 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Paluxy Sand

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		431	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		525.97	mg/L	
00910	CALCIUM (MG/L)		2.4	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		29	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.8	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		8	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		0.73	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		2.6	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.2	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.44		
00955	SILICA, DISSOLVED (MG/L AS SI02)		15	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		48.58		
00932	SODIUM, CALCULATED, PERCENT		98	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		337	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1562	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		257	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		32	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		904	mg/L	

Water Quality Analysis

Sample Date: 7/27/1987 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Paluxy Sand

Analyzed Lab: Texas Department of Health **Reliability:** From well not sufficiently pumped; not filtered or preserved

Collection Remarks: discharge at cooling tower

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		7	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		441	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		521.09	mg/L	
00910	CALCIUM (MG/L)		3	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		8.4	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		27	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.6	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		8	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		0.14	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		2.66	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.5	SU	
00937	POTASSIUM, TOTAL (MG/L AS K)		1	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.66		
00955	SILICA, DISSOLVED (MG/L AS SI02)		15	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		51.94		
00932	SODIUM, CALCULATED, PERCENT		98	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		339	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1595	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		250	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		904	mg/L	

Water Quality Analysis

Sample Date: 10/13/1994 **Sample Time:** 0945 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Paluxy Sand

Analyzed Lab: Texas Department of Health **Reliability:** Sampled using TWDB protocols

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
39086	ALKALINITY FIELD DISSOLVED AS CACO3		448	mg/L as CACO3	
82244	ALKALINITY PHENOLPHTHALEIN FIELD DATA (MG/L)		8	mg/L	
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		11	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		442	mg/L as CACO3	
01503	ALPHA, DISSOLVED (PC/L)	<	4.7	PC/L	
01106	ALUMINUM, DISSOLVED (UG/L AS AL)		23	ug/L	
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	<	2	ug/L	
01000	ARSENIC, DISSOLVED (UG/L AS AS)	<	2	ug/L	
01005	BARIUM, DISSOLVED (UG/L AS BA)		3.8	ug/L	
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	<	2	ug/L	
03503	BETA, DISSOLVED (PC/L)	<	5.1	PC/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		512.55	mg/L	
01020	BORON, DISSOLVED (UG/L AS B)		740	ug/L	
71870	BROMIDE, DISSOLVED, (MG/L AS BR)		0.42	mg/L	
01025	CADMIUM, DISSOLVED (UG/L AS CD)	<	0.5	ug/L	
00915	CALCIUM, DISSOLVED (MG/L AS CA)		2.3	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		13.2	mg/L	
00941	CHLORIDE, DISSOLVED (MG/L AS CL)		27	mg/L	
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	<	10	ug/L	
01035	COBALT, DISSOLVED (UG/L AS CO)	<	10	ug/L	
01040	COPPER, DISSOLVED (UG/L AS CU)	<	4	ug/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.68	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		8	mg/L as CACO3	
01046	IRON, DISSOLVED (UG/L AS FE)	<	10	ug/L	
01049	LEAD, DISSOLVED (UG/L AS PB)	<	5	ug/L	
01130	LITHIUM, DISSOLVED (UG/L AS LI)		44	ug/L	
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		0.7	mg/L	
01056	MANGANESE, DISSOLVED (UG/L AS MN)	<	1	ug/L	
71890	MERCURY, DISSOLVED (UG/L AS HG)	<	0.13	ug/L	
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	<	50	ug/L	
01065	NICKEL, DISSOLVED (UG/L AS NI)	<	10	ug/L	

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)		0.77	mg/L as N	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		3.4	mg/L as NO3	
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)		0.01	mg/L as N	
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)		0.04	mg/L as N	
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)		0.1	mg/L as N	
00090	OXIDATION REDUCTION POTENTIAL (ORP), MILLIVOLTS		-52.2	MV	
00400	PH (STANDARD UNITS), FIELD		8.39	SU	
00935	POTASSIUM, DISSOLVED (MG/L AS K)		2.3	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.67		
01145	SELENIUM, DISSOLVED (UG/L AS SE)	<	4	ug/L	
00955	SILICA, DISSOLVED (MG/L AS SI02)		15	mg/L as SIO2	
01075	SILVER, DISSOLVED (UG/L AS AG)	<	10	ug/L	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		49.93		
00932	SODIUM, CALCULATED, PERCENT		98	PCT	
00930	SODIUM, DISSOLVED (MG/L AS NA)		337	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1366	MICR	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		150	ug/L	
00946	SULFATE, DISSOLVED (MG/L AS SO4)		270	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		30.7	C	
01057	THALLIUM, DISSOLVED (UG/L AS TL)	<	2	ug/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		924	mg/L	
01085	VANADIUM, DISSOLVED (UG/L AS V)	<	10	ug/L	
01090	ZINC, DISSOLVED (UG/L AS ZN)		40.4	ug/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.

STATE OF TEXAS WELL REPORT for Tracking #631385

Owner:	**Pediatric Health Management Services**	Owner Well #:	**B-6**
Address:	**1935 Medical District Dr Dallas, TX 75235**	Grid #:	**33-10-4**
Well Location:	**5323 Harry Hines Blvd. Dallas, TX**	Latitude:	**32° 49' 24.6" N**
	Piezometer is located on the pavement in the parking lot.	Longitude:	**096° 50' 49.2" W**
		Elevation:	**No Data**
Well County:	**Dallas**		
Type of Work:	**Geotechnical Piezometer**	Proposed Use:	**Geotechnical Piezometer**

Drilling Start Date: **12/18/2022** Drilling End Date: **12/18/2022**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8**	**0**	**67**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**45**	**67**	**Sand**	**20-40**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**2**	**Concrete 3 Bags/Sacks**
	2	**45**	**Bentonite Chips 16 Bags/Sacks**

Seal Method: **Gravity**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Alternative Procedure Used** **Surface Completion by Driller**

Water Level: **48 ft.** below land surface on **2022-12-18** Measurement Method: **Steel Tape**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Texplor of Dallas, Inc.**

PO Box 793928
Dallas, TX 75379

Driller Name: **Brent Thomason** License Number: **2967**

Apprentice Name: **Cody Sadler**

Comments: **Geotechnical soil boring and 2" piezometer installed for water observation reading.**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	0.5	6" asphalt flexbase & sand fill
0.5	4	Clay, reddish brown
4	6	Clay, sandy, reddish brown
6	8	Clay, reddish brown
8	14	Clay, sandy, reddish brown
14	18	Sand, Clayey, reddish brown
18	25	Clay, reddish brown
25	35	Clay, reddish brown
35	40	Clay, reddish brown tan, sand seams
40	45	Clay, shaley, gray
45	50	Clay, gray
50	60	Sand, clayey with gravel, tan gray
60	67	Shale, gray

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	Riser	New Plastic (PVC)	40	0	47
2	Screen	New Plastic (PVC)	40 0.010	47	67

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #631389

Owner:	**Pediatric Health Management Services**	Owner Well #:	**B-8**
Address:	**1935 Medical District Dr Dallas, TX 75235**	Grid #:	**33-10-4**
Well Location:	**5323 Harry Hines Blvd. Dallas, TX**	Latitude:	**32° 49' 29.64" N**
	Piezometer is located on the pavement in the parking lot.	Longitude:	**096° 50' 43.8" W**
		Elevation:	**No Data**
Well County:	**Dallas**		
Type of Work:	**Geotechnical Piezometer**	Proposed Use:	**Geotechnical Piezometer**

Drilling Start Date: **12/12/2022** Drilling End Date: **12/12/2022**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8**	**0**	**42**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**20**	**42**	**Sand**	**20-40**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**2**	**Concrete 3 Bags/Sacks**
	2	**20**	**Bentonite Chips 7 Bags/Sacks**

Seal Method: **Gravity**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Alternative Procedure Used** **Surface Completion by Driller**

Water Level: **18 ft.** below land surface on **2022-12-12** Measurement Method: **Steel Tape**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Texplor of Dallas, Inc.**

PO Box 793928
Dallas, TX 75379

Driller Name: **Brent Thomason** License Number: **2967**

Apprentice Name: **Cody Sadler**

Comments: **Geotechnical soil boring and 2" piezometer installed for water observation reading.**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	0.5	6" asphalt flexbase & sand fill
0.5	6	Fill, Clay, sandy with gravel, brown tan
6	12	Clay, reddish brown
12	18	Sand, clayey with gravel, reddish brown
18	23.5	Sand, clayey tan "water bearing"
23.5	25	Clay, tan light brown
25	32	Clay, gray dark gray
32	40	Sand, clayey gray dark gray
40	42	Shale, weathered, dark gray

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	Riser	New Plastic (PVC)	40	0	22
2	Screen	New Plastic (PVC)	40 0.010	22	42

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

4F

Send original copy by certified mail to the Texas Water Development Board
P. O. Box 12386
Austin, Texas 78711

State of Texas

WATER WELL REPORT

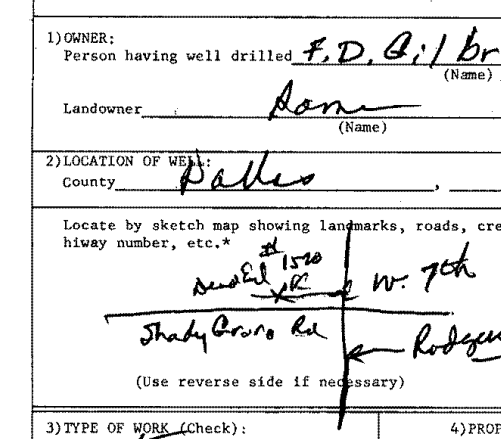
For TWDB use only
Well No. 33-09-4F
Located on map 1 2 3
Received: 6-9-69

1) OWNER:
Person having well drilled F.D. Gilbreath (Name) Address 1520 W 7th (Street or RFD) Irving (City) Texas (State)

Landowner None (Name) Address None (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Dallas, _____ miles in Cutten (N.E., S.W., etc.) direction from Irving (Town)

Locate by sketch map showing landmarks, roads, creeks, hiway number, etc.*



(Use reverse side if necessary)

or Give legal location with distances and directions from adjacent sections or survey lines.

Labor _____ League _____
Block _____ Survey _____
Abstract No. _____
(NW¼ NE¼ SW¼ SE¼) of Section _____

3) TYPE OF WORK (Check): New Well ✓ Deepening Reconditioning Plugging

4) PROPOSED USE (Check): Domestic Industrial Municipal Irrigation Test Well Other (Yard)

5) TYPE OF WELL (Check): Rotary ✓ Driven Dug Cable Jetted Bored

6) WELL LOG:
Diameter of hole 6 1/4 in. Depth drilled 48' ft. Depth of completed well 48' ft. Date drilled 3-26-69
All measurements made from 0' ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0	6'	Loam
6'	21	Yellow clay
21	42	Sand
42	46	Large Gravel
46	48	Shale Blue

(Use reverse side if necessary)

9) Casing:
Type: Old New ✓ Steel Plastic Other
Cemented from _____ ft. to _____ ft.

Diameter (inches)	Setting From (ft.)	To (ft.)	Gage
0		48'	9#

10) SCREEN:
Type _____
Perforated Slotted

Diameter (inches)	Setting From (ft.)	To (ft.)	Slot Size

7) COMPLETION (Check): Straight wall Gravel packed ✓ Other Under reamed Open Hole

8) WATER LEVEL:
Static level _____ ft. below land surface Date _____
Artesian pressure _____ lbs. per square inch Date _____
Depth to pump bowls, cylinder, jet, etc., _____ ft. below land surface.

11) WELL TESTS:
Was a pump test made? Yes No If yes, by whom?
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.
Bailer test _____ gpm with _____ ft. drawdown after _____ hrs.
Artesian flow _____ gpm
Temperature of water _____

12) WATER QUALITY:
Was a chemical analysis made? Yes No
Did any strata contain undesirable water? Yes No
Type of water? _____ depth of strata _____

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME A.B. Hopkemeier (Type or Print) Water Well Drillers Registration No. 112

ADDRESS 4445 N Hwy 183 (Street or RFD) Irving (City) Texas (State)

(Signed) A.B. Hopkemeier (Water Well Driller) Hopkemeier Drilling Co. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

TWDBE-GW-53

4J

Send original copy by certified mail to the Texas Water Development Board P. O. Box 12386 Austin, Texas 78711

State of Texas

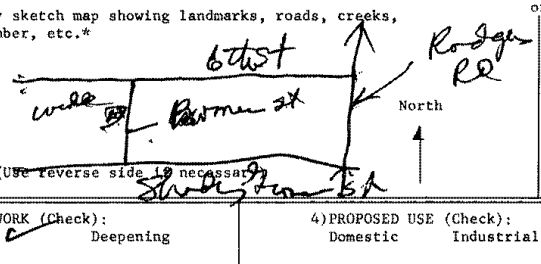
WATER WELL REPORT

For TWDB use only
Well No. 33-09-4J
Located on map yes
Received: 70
ctr

1) OWNER:
Person having well drilled F.C. Warming (Name) Address 709 Bowman (Street or RFD) (City) (State)
Landowner Fred C. Warming (Name) Address 709 Bowman Irving, Tex (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Dallas, _____ miles in S.W. (N.E., S.W., etc.) direction from City Hall (Town)

Locate by sketch map showing landmarks, roads, creeks, hiway number, etc.*



(Use reverse side if necessary)

or

Give legal location with distances and directions from adjacent sections or survey lines.

Labor _____ League _____
Block _____ Survey _____
Abstract No. _____
(NW¼ NE¼ SW¼ SE¼) of Section _____

3) TYPE OF WORK (Check): New Well ✓ Deepening Reconditioning Plugging

4) PROPOSED USE (Check): Domestic Industrial Municipal Irrigation Test Well Other

5) TYPE OF WELL (Check): Rotary Driven Dug Cable Jetted Bored

6) WELL LOG:
Diameter of hole 9" in. Depth drilled 50 ft. Depth of completed well 50' ft. Date drilled May 70
All measurements made from 0' ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0	42	Yellow Clay
42	50	Sand & Gravel to Shale

(Use reverse side if necessary)

9) Casing:
Type: Old New ✓ Steel ✓ Plastic Other
Cemented from _____ ft. to _____ ft.

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Gage
6 5/8	0	50'	13#

10) SCREEN:
Type _____
Perforated Slotted

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Slot Size

7) COMPLETION (Check):
Straight wall Gravel packed ✓ Other
Under reamed Open Hole

8) WATER LEVEL:
Static level _____ ft. below land surface Date _____
Artesian pressure _____ lbs. per square inch Date _____
Depth to pump bowls, cylinder, jet, etc., _____ ft. below land surface.

11) WELL TESTS:
Was a pump test made? Yes No If yes, by whom?
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.
Bailer test _____ gpm with _____ ft. drawdown after _____ hrs.
Artesian flow _____ gpm
Temperature of water _____

12) WATER QUALITY:
Was a chemical analysis made? Yes No
Did any strata contain undesirable water? Yes No
Type of water? _____ depth of strata _____

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME A. B. Haipkemeier (Type or Print) Water Well Drillers Registration No. 112
ADDRESS PO Box 516 (Street or RFD) Irving (City) Texas (State) 75060
(Signed) A. B. Haipkemeier (Water Well Driller) A. B. Haipkemeier Drilling Co. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

TWDBE-GW-53

Please use black ink.
Send original copy by certified mail to the
Texas Water Commission
P.O. Box 13087
Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

Texas Water Well Drillers Board
P. O. Box 13087
Austin, Texas 78711

1) OWNER Dealers Auto Auction (Name) Address 2717 E main (Street or RFD) Grand Prairie (City) Tx. (State) 75050 (Zip)

2) LOCATION OF WELL:
County Dallas _____ miles in _____ (N.E., S.W., etc.) direction from _____ (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☑ See attached map.

3) TYPE OF WORK (Check):
☑ New Well ☐ Deepening
☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):
☐ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply
☐ Irrigation ☐ Test Well ☐ Injection ☐ Other Car Wash

5) DRILLING METHOD (Check): ☐ Driven
☐ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored
☑ Air Rotary ☐ Cable Tool ☐ Other _____

6) WELL LOG:
Date Drilling:
Started 8-6 1987
Completed 8-7 1987

DIAMETER OF HOLE Dia. (in.)	From (ft.)	To (ft.)
6 1/2	Surface	80
6 3/4	80	477

7) BOREHOLE COMPLETION:
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☑ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from 160 ft. to 477 ft.

From (ft.)	To (ft.)	Description and color of formation material
0	18	Topsoil & yellow clay
18	65	Sand & Blue Shell streaks
65	80	Blue Shell
80	120	Blue Shell
120	140	Blue Shell
140	180	Blue Shell
180	200	Blue Shell & Sand streaks
200	230	Blue Shell
230	260	Blue Shell
260	300	Blue Shell & Sand streaks
300	310	Blue Shell & Sand Streaks
310	350	Blue Shell
350	390	Blue Shell & Sand Streaks
390	410	Blue Shell & Sand
410	440	Sand & Blue Shell streaks
440	460	Sand
460	470	Sand
470	477	Blue Shell

(Use reverse side if necessary)

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgf., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
4 1/2	N	Plastic	+2	477	40
		Perf	297	477	1/16
		8 5/8 steel	+1	80	

9) CEMENTING DATA [Rule 319.44(b)]
Cemented from +1 ft. to 160 ft. No. of Sacks Used _____
_____ ft. to _____ ft. No. of Sacks Used _____
Method used _____
Cemented by _____

10) SURFACE COMPLETION
☐ Specified Surface Slab Installed [Rule 319.44(c)]
☐ Pitless Adapter Used [Rule 319.44(d)]
☑ Approved Alternative Procedure Used [Rule 319.71]

11) WATER LEVEL:
Static level 230 ft. below land surface Date _____
Artesian flow _____ gpm. Date _____

12) PACKERS: Type Depth
none

13) TYPE PUMP:
☐ Turbine ☐ Jet ☑ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 300 ft.

14) WELL TESTS:
Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☑ Estimated
Yield: 70 gpm with _____ ft. drawdown after _____ hrs.

15) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☑ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☑ No

RECEIVED
SEP 14 1987
TEXAS WATER COMMISSION

I here by certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 12 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME Jimmy Miller Drilling (Type or Print) Water Well Driller's License No. 2436

ADDRESS P.O. Box 7 (Street or RFD) Rhome (City) Tx. (State) 76078 (Zip)

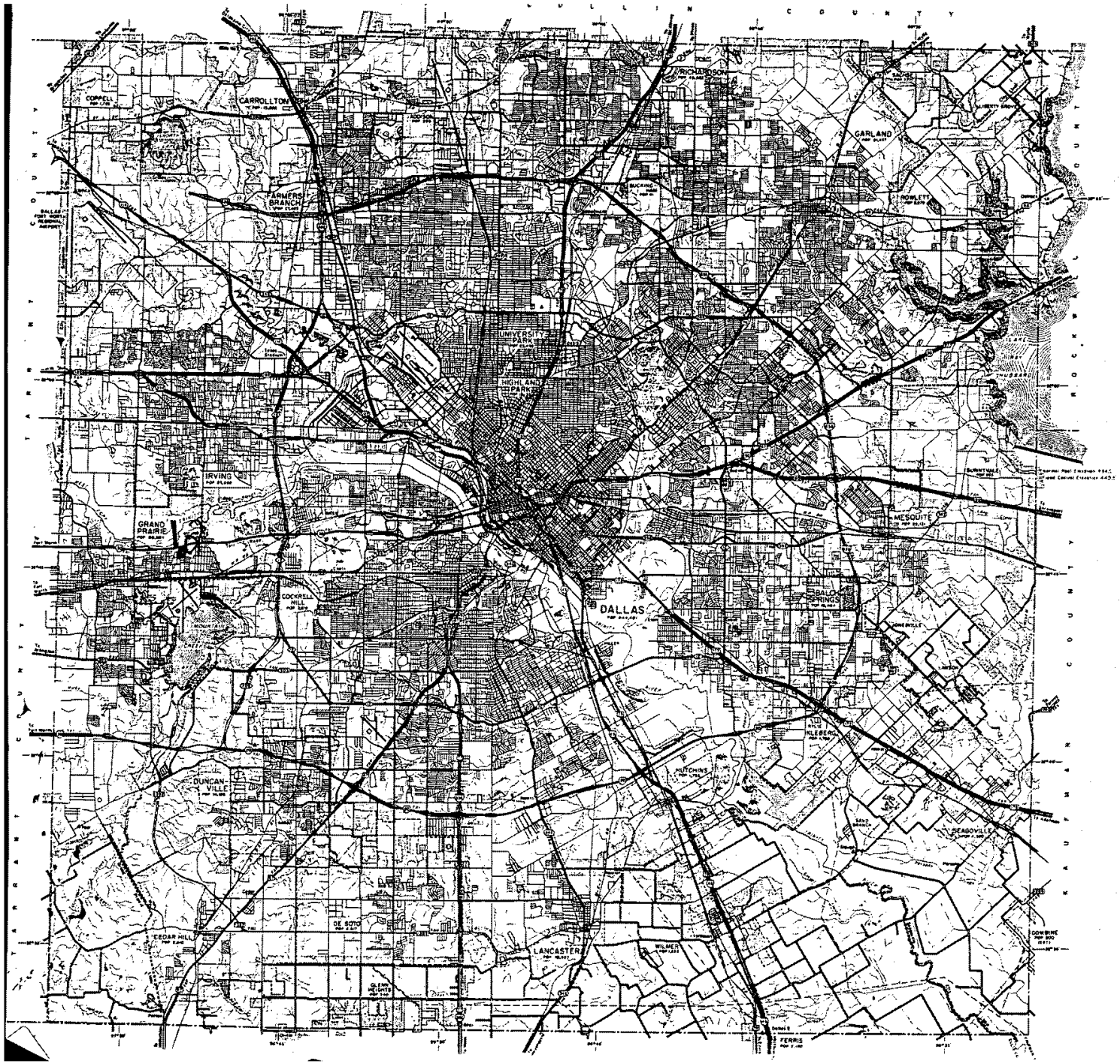
(Signed) Jimmy J. Miller (Licensed Water Well Driller) (Signed) _____ (Registered Driller Trainee)

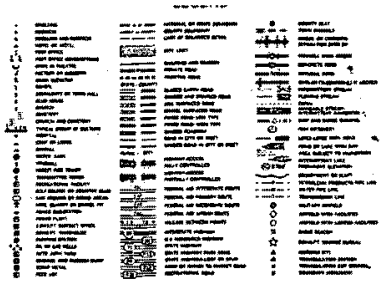
Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only
Well No. 33-09-7
Located on map _____

WWD-012 (Rev.01-28-87)

TEXAS WATER COMMISSION COPY





KEY TO COUNTIES

GENERAL HIGHWAY MAP

DALLAS COUNTY TEXAS

PREPARED BY THE
STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION
TRANSPORTATION PLANNING DIVISION
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

SCALES

1975

1970 CENSUS FIGURES

HIGHWAYS REVISED TO JANUARY 1, 1977

Please use black ink.
Send original copy by certified mail to the
Texas Water Commission
P.O. Box 13087
Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

Texas Water Well Drillers Board
P. O. Box 13087
Austin, Texas 78711

1) OWNER Dealers Auto Auction (Name) Address 2717 E main (Street or RFD) Grand Prairie (City) Tx (State) 75050 (Zip)

2) LOCATION OF WELL:
County Dallas _____ miles in _____ (N.E., S.W., etc.) direction from _____ (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

2 ☑ See attached map. on 33-09-7

3) TYPE OF WORK (Check): ☑ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check): ☐ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ Other car wash

5) DRILLING METHOD (Check): ☐ Driven ☐ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored ☑ Air Rotary ☐ Cable Tool ☐ Other _____

6) WELL LOG:
Date Drilling: Started 7-24 1987 Completed 7-25 1987

DIAMETER OF HOLE Dia. (in.)	From (ft.)	To (ft.)
12½	Surface	56
6½	56	316

7) BOREHOLE COMPLETION:
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☑ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from 90 ft. to 316 ft.

From (ft.)	To (ft.)	Description and color of formation material
0-18		Topsoil: yellow clay
18-65		Sand & Blue Shell streaks
65-80		Blue Shell
80-120		Blue Shell
120-140		Blue Shell
140-180		Blue Shell
180-200		Blue Shell & sand streaks
200-230		Blue Shell
230-260		Blue Shell
260-300		Blue Shell & Sand streaks
300-316		Blue Shell & Sand streaks
310-316		Blue Shell

Plugged

RECEIVED
SEP 14 1987
TEXAS WATER COMMISSION

(Use reverse side if necessary)

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgf., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
4½	N	Plastic	42	316	40
		Perf	196	316	16
		8⅝ Steel 0-56			

9) CEMENTING DATA [Rule 319.44(b)]
Cemented from 41 ft. to 90 ft. No. of Sacks Used _____
_____ ft. to _____ ft. No. of Sacks Used _____
Method used _____
Cemented by _____

10) SURFACE COMPLETION
☐ Specified Surface Slab Installed [Rule 319.44(c)]
☐ Pitless Adapter Used [Rule 319.44(d)]
☐ Approved Alternative Procedure Used [Rule 319.71]

11) WATER LEVEL:
Static level 180 ft. below land surface Date _____
Artesian flow _____ gpm. Date _____

12) PACKERS: Type Depth
none

13) TYPE PUMP:
☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., _____ ft.

14) WELL TESTS:
Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☑ Estimated
Yield: 3 gpm with _____ ft. drawdown after _____ hrs.

15) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☑ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☑ No

I here by certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 12 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME Jimmy Miller Drilling (Type or Print) Water Well Driller's License No. 2436

ADDRESS P.O. Box 7 (Street or RFD) Rhome (City) Tx (State) 76078 (Zip)

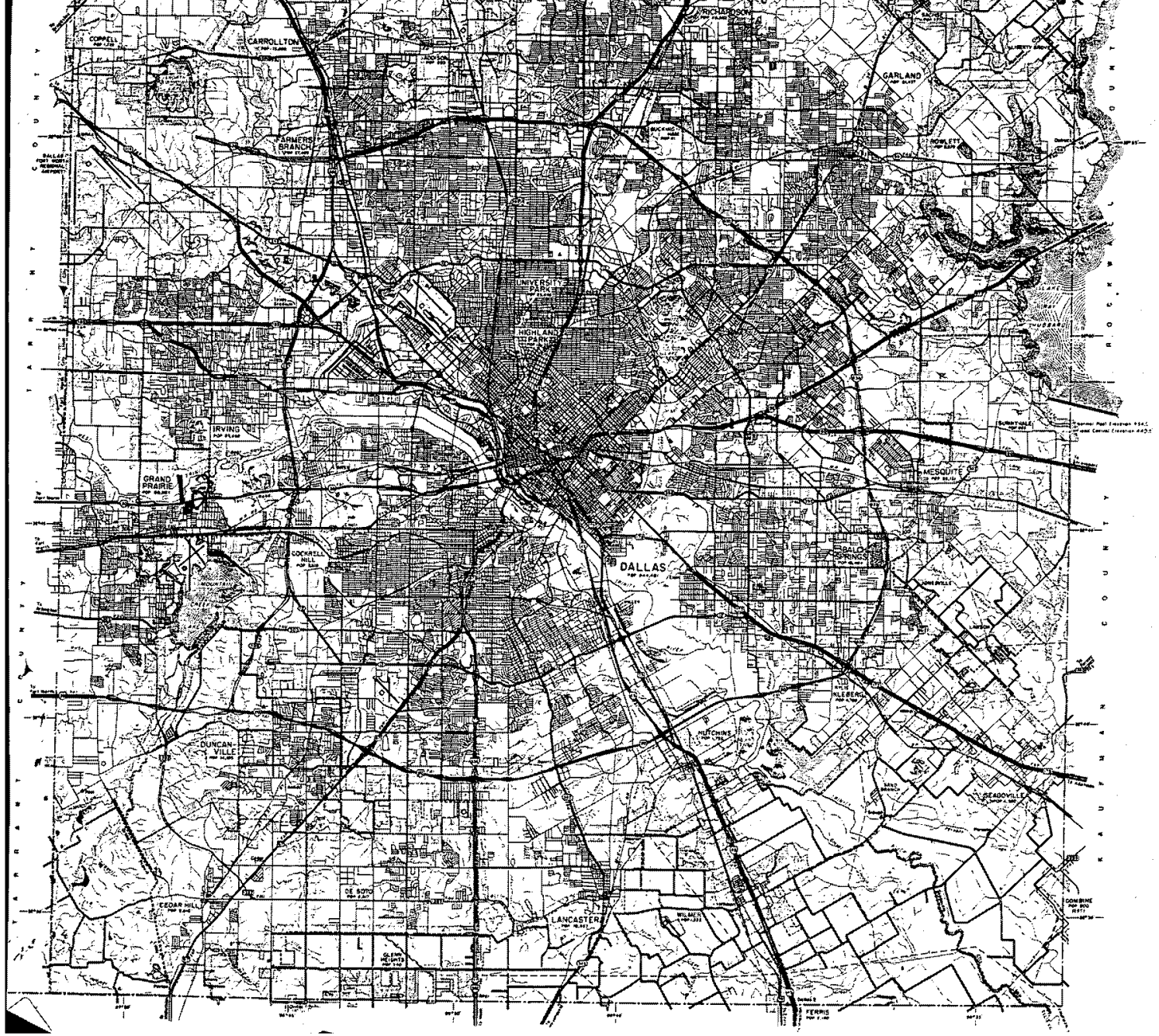
(Signed) Jimmy L Miller (Licensed Water Well Driller) (Signed) _____ (Registered Driller Trainee)

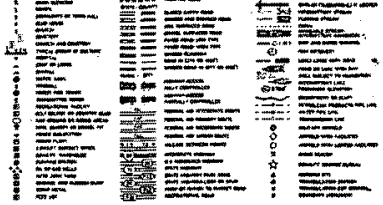
Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only
Well No. 33-09-7
Located on map _____

WWD-012 (Rev.01-28-87)

TEXAS WATER COMMISSION COPY





GENERAL HIGHWAY MAP
DALLAS COUNTY
TEXAS

PREPARED BY THE
STATE DEPARTMENT OF HIGHWAYS
AND PUBLIC TRANSPORTATION
TRANSPORTATION PLANNING DIVISION
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

SCALES

1975

1970 CENSUS FIGURES

HIGHWAYS REVISED TO JANUARY 1, 1977

Copies of this map are available for sale and at nominal cost from the Texas State Department of Highways and Public Transportation, P.O. Box 5051, Austin, Texas 78763.

Please use black ink.
WHITE COPY with:
Texas Department of Water Resources
P.O. Box 13087
Austin, Texas 78711
Phone (512) 475-6176

State of Texas

Water Well Completion and Plugging Report

(This form must be completed and filed with the TDWR within 30 days following the date the well is plugged as required by current statutory law.)

Texas Water Well Drillers Board
P.O. Box 13087
Austin, Texas 78711
Phone (512) 475-6176

A. Well Identification and Location Data

1) Owner Dealers Auto Auction (Name) Address 2717 E Main (Street or RFD), Grand Prarie (City) TX (State) 75050 (Zip)

2) Owner's Well Number 1

3) Location of Well: County Dallas, City miles in IN City (N.E., S.W., etc.) direction from Grand Prarie (Town)

Driller or other person performing the plugging operations must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:

Section No. _____ Block No. _____ Township _____

Abstract No. _____ Survey Name _____

Distance and direction from two intersecting section lines or survey lines: _____

☒ See Attached map.

B. Historical Data on Well To Be Plugged (if available)

4) Driller Jimmy Miller License Number 2436 City Grand Prarie

5) Drilled 7-25, 1987 6) Diameter of hole 6½ inches; 7) Total depth of well 316 feet.

C. Current Plugging Data

8) Date well plugged 8-6, 19 87

9) Sketch of well: Using space at right, show method of plugging the well including all casing and cemented intervals.

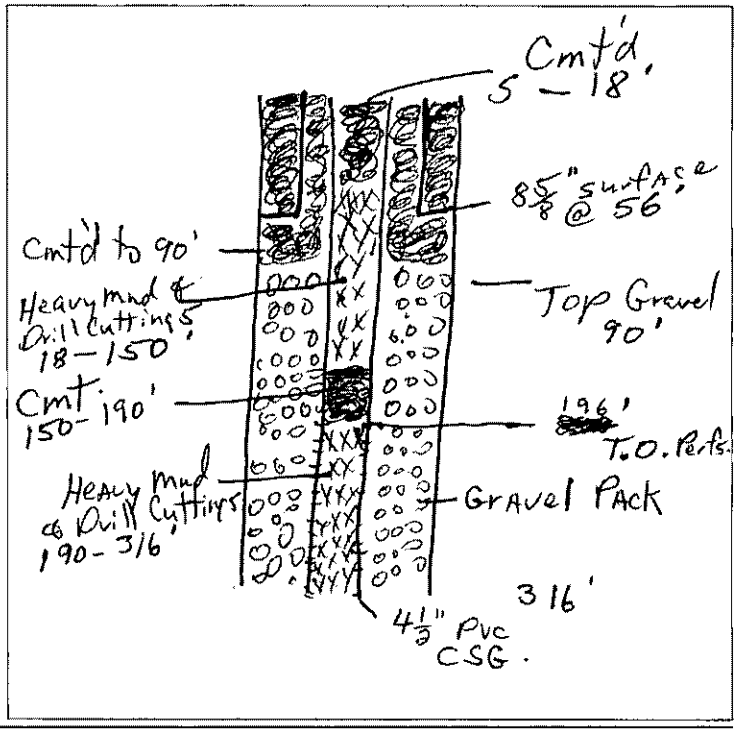
10) Name of Driller or other person actually performing the plugging operations Jimmy Miller; if a water well driller plugged the well, give the driller's license no. 2436

11) Casing and cementing data relative to the plugging operations:

RECEIVED SEP 14 1987 TEXAS WATER COMMISSION

Diameter (inches)	Casing Left in Well From (feet)	To (feet)
8⅝	0	56
4½	6	316

Cement Plug(s) Placed in Well From (feet)	To (feet)	Sack(s) of cement used
150	190	3½
Surface	18'	2



D. Validation of Information Included in Form

I hereby certify that this well was plugged by me (or under my supervision) and that all of the statements herein are true and accurate to the best of my knowledge and belief.

Company or Individual's Name Jimmy Miller (Type or Print)

Address P.O. Box 7 (Street or RFD), Rhome (City), TX (State) 76078 (Zip)

(Signed) Jimmy Miller (Person performing plugging operations) (Signed) G L Gibson (Owner of Well)

For TDWR use only
Well No. _____
Location on map _____

TDWR-0492 (Rev. 3/8/84)

DEPARTMENT OF WATER RESOURCES' COPY

Send original copy by certified mail to: Texas Water Commission, P.O. Box 13087, Austin, Texas 78711 — *Please use black ink.*

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

State of Texas WELL REPORT

Texas Water Well Drillers Board
P.O. Box 13087
Austin, Texas 78711

1) OWNER Steffon Toth (Name) ADDRESS 7113 Ave D (Street or RFD) Grand Prairie (City) Tx (State) 75050 (Zip)

2) LOCATION OF WELL: County Dallas, 3 miles in Southeast (NE, SW, etc.) direction from Grand Prairie (Town)

Driller **must** complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ LEGAL DESCRIPTION:
Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

☒ SEE ATTACHED MAP

3) TYPE OF WORK (Check): ☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check): ☒ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ De-Watering

5) DRILLING METHOD (Check): ☒ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored ☐ Driven ☐ Air Rotary ☐ Cable Tool ☐ Other _____

6) WELL LOG:
Date Drilling: Started 9/15 1990 Completed 9/16 1990

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
6 3/4	Surface	320

7) BOREHOLE COMPLETION: ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☒ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from 320 ft. to 280 ft.

From (ft.)	To (ft.)	Description and color of formation material
0	4	Topsoil
4	28	White clay
28	40	Red clay
40	210	Grey clay & rock
240	280	Grey clay
280	320	Coarse sand

(Use reverse side if necessary)

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casting Screen
4	N	Sched. 40 PVC	320	0	
4	N	Sched. 40 Perf.	320	300	

RECEIVED NOV 12 1990 TEXAS WATER COMMISSION

9) CEMENTING DATA [Rule 287.44(1)]
Cemented from 280 ft. to 250 ft. No. of Sacks Used 4
28 ft. to 0 ft. No. of Sacks Used 3
Method used Trim pipe
Cemented by Ed's Pump Service

13) TYPE PUMP: ☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder ☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 280 ft.

10) SURFACE COMPLETION
☐ Specified Surface Slab Installed [Rule 287.44(2)(A)]
☐ Pitless Adapter Used [Rule 287.44(3)(B)]
☒ Approved Alternative Procedure Used [Rule 287.71]

14) WELL TESTS:
Type Test: ☐ Pump ☒ Bailer ☐ Jetted ☐ Estimated
Yield: 10 gpm with 35 ft. drawdown after 2 hrs.

11) WATER LEVEL:
Static level 225 ft. below land surface Date 9/16/90
Artesian flow _____ gpm. Date _____

15) WATER QUALITY:
Did the drilling penetrate any strata which contained undesirable constituents?
☐ Yes ☒ No If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☐ No

12) PACKERS: Type Depth

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME Ed's Pump Service (Type or print) WELL DRILLER'S LICENSE NO. 1327

ADDRESS 6220 Sunnybrook Drive (Street or RFD) Fort Worth (City) Texas (State) 76148 (Zip)

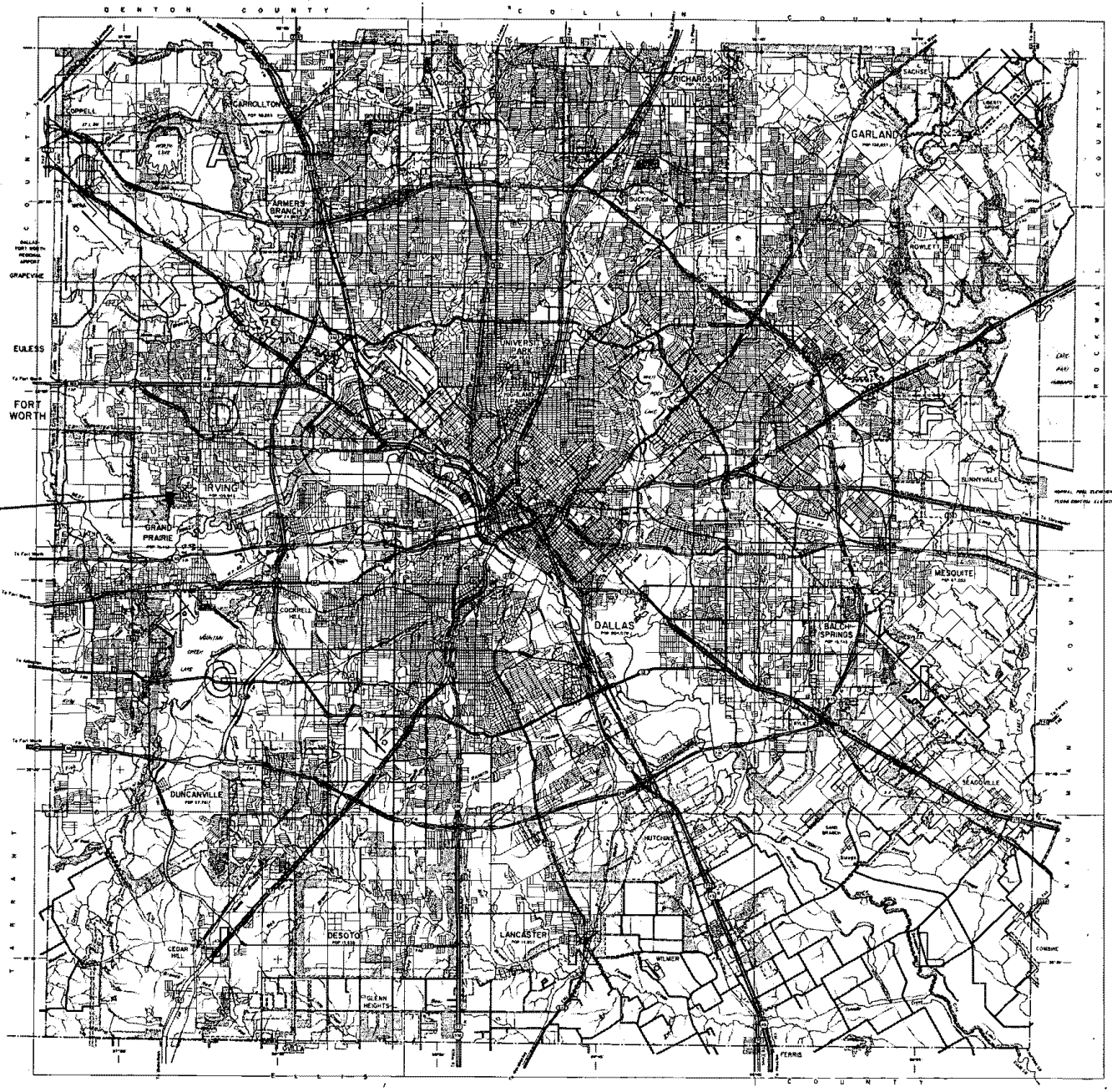
(Signed) [signature] (Licensed Well Driller) (Signed) [signature] (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only: Well No. 33-09-7 Located on map _____

WWD-012 (Rev. 09/21/88)

TEXAS WATER COMMISSION COPY



LEGEND

KEY TO COUNTIES

KEY TO SUPPLEMENTARY SHEETS

GENERAL HIGHWAY MAP
DALLAS COUNTY
TEXAS

PREPARED BY THE
STATE DEPARTMENT OF HIGHWAYS
AND PUBLIC TRANSPORTATION
TRANSPORTATION PLANNING DIVISION
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

SCALE IN MILES

1981

1980 CENSUS FIGURES

HIGHWAYS REVISED TO JUNE 1, 1980

Copies of this map are available for public use at nominal cost.
Write the State Department of Highways and Public Transportation,
P.O. Box 8031, Austin, Texas 78713

POLYCONIC PROJECTION NORTH AMERICAN DATUM
CONTROL: U.S. COAST AND GEODETIC SURVEY AND U.S. GEOLOGICAL SURVEY

Sheet 1 of 1 Base Sheet and 14 Supplementary Sheets

NOTICE

This map has been prepared for internal departmental use and has no official status. Reference is limited to validity of available data as of the dates shown.

7K

GW 7

Send original copy by certified mail to the Texas Water Development Board P. O. Box 12386 Austin, Texas 78711

State of Texas

WATER WELL REPORT

For TWDB use only
Well No. 33-09-7K
Located on map yes
Received: 75
Form GW 8
Form GW 9

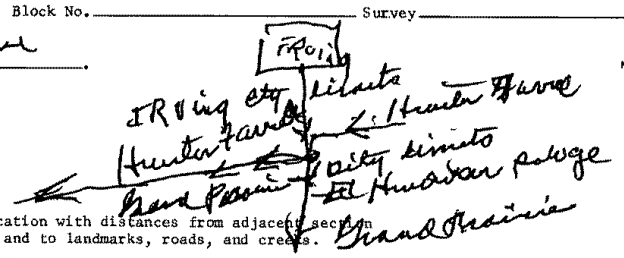
1) OWNER:
Person having well drilled Henderson Salvage (Name) Address 2300 Mayer Rd (Street or RFD) Grand Prairie (City) Tex (State)

Landowner Dame (Name) Address Dame (Street or RFD) Grand Prairie (City) Tex (State)

2) LOCATION OF WELL:
County Dallas Labor _____ League _____ Abstract No. _____

NW¼ NE¼ SW¼ SE¼ of Section _____ Block No. _____ Survey _____
(Circle as many as are known)

miles in _____ (NE., SW., etc.) direction from Grand Prairie (Town).



Sketch map of well location with distances from adjacent section or survey lines, and to landmarks, roads, and creeks.

3) TYPE OF WORK (Check):
New Well ☑ Deepening ☐
Reconditioning ☐ Plugging ☐

4) PROPOSED USE (Check):
Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☑ Hush puppies

5) TYPE OF WELL (Check):
Rotary ☑ Driven ☐ Dug ☐
Cable ☐ Jetted ☐ Bored ☐

6) WELL LOG:
Diameter of hole 7 11 in. Depth drilled 44' ft. Depth of completed well 44' ft. Date drilled 5-15-75

All measurements made from 0 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material	From (ft.)	To (ft.)	Description and color of formation material
0	12	Clay			
12	40	Quicksand			
40	44'	Big Gravel			
					(Use reverse side if necessary)

7) COMPLETION (Check):
Straight wall ☐ Gravel packed ☑ Other ☐
Under reamed ☐ Open hole ☐

8) WATER LEVEL:
Static level _____ ft. below land surface Date _____
Artesian pressure _____ lbs. per square inch Date _____

9) CASING:
Type: old ☐ New ☑ Steel ☐ Plastic ☑ Other ☐
Cemented from _____ ft. to _____ ft.

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Gage
4 1/2			1/4" plastic

10) SCREEN:
Type _____
Perforated ☐ Slotted ☐

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Slot size

11) WELL TESTS:
Was a pump test made? ☐ Yes ☐ No If yes by whom?

Yield: _____ gpm with _____ ft. drawdown after _____ hrs
Bailer test _____ gpm with _____ ft. drawdown after _____ hrs
Artesian flow _____ gpm Date _____
Temperature of water _____
Was a chemical analysis made? ☐ Yes ☐ No
Did any strata contain undesirable water? ☐ Yes ☐ No
Type of water? _____ depth of strata _____

12) PUMP DATA:
Manufacturer's Name _____
Type _____ H.P. _____
Designed pumping rate _____ gpm ☐ gph ☐
Type power unit _____
Depth to bowls, cylinder, jet, etc., _____ ft. below land surface.

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME A. B. Hoipkemeier Drlng (Type or Print) Water Well Drillers Registration No. 112

Address Po Box 516 (Street or RFD) Irving (City) Tex (State)

(Signed) A. B. Hoipkemeier (Water Well Driller) A. B. Hoipkemeier Drlng Co (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-10-101

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3310101
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.838889
Latitude (degrees minutes seconds)	32° 50' 20" N
Longitude (decimal degrees)	-96.870278
Longitude (degrees minutes seconds)	096° 52' 13" W
Coordinate Source	+/- 1 Second
Aquifer Code	218TWMT - Twin Mountains Formation
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	440
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	2400
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1953
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	No
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Dallas County Park Cities Water
Driller	Texas Water Wells
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.

STATE OF TEXAS WELL REPORT for Tracking #500476

Owner:	**City of Irving**	Owner Well #:	**P-3**
Address:	**8901 John W. Carpenter Freeway Dallas, TX 75247**	Grid #:	**33-09-4**
Well Location:	**1809 Glenwick Ln. Irving, TX**	Latitude:	**32° 47' 30.55" N**
		Longitude:	**096° 58' 25.07" W**
Well County:	**Dallas**	Elevation:	**No Data**
Type of Work:	**Geotechnical Piezometer**	Proposed Use:	**Geotechnical Piezometer**

Drilling Start Date: **6/13/2018** Drilling End Date: **6/13/2018**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8**	**0**	**15**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**4**	**15**	**Sand**	**16-30**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**2**	**Concrete 2 Bags/Sacks**
	2	**4**	**Bentonite 1 Bags/Sacks**

Seal Method: **Gravity**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Alternative Procedure Used** **Surface Completion by Driller**

Water Level: **8.5 ft.** below land surface on **2018-06-13** Measurement Method: **Steel Tape**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Texplor of Dallas, Inc.**

PO Box 793928
Dallas, TX 75379

Driller Name: **Brent Thomason** License Number: **2967**

Apprentice Name: **Cody Sadler**

Comments: **Geotechnical soil boring for Piezometer installation**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**0.5**	**Concrete**
0.5	**8**	**Sand, brown**
8	**12**	**Sand, tan gray**
12	**15**	**Shale, gray**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	**Blank**	**New Plastic (PVC)**	**40**	**0**	**5**
2	**Screen**	**New Plastic (PVC)**	**40 0.1**	**5**	**15**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #500475

Owner:	**City of Irving**	Owner Well #:	**P-2**
Address:	**8901 John W. Carpenter Freeway Dallas, TX 75247**	Grid #:	**33-09-4**
Well Location:	**1813 Glenwick Ln. Irving, TX**	Latitude:	**32° 47' 30.26" N**
		Longitude:	**096° 58' 25.07" W**
Well County:	**Dallas**	Elevation:	**No Data**
Type of Work:	**Geotechnical Piezometer**	Proposed Use:	**Geotechnical Piezometer**

Drilling Start Date: **6/12/2018** Drilling End Date: **6/12/2018**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8**	**0**	**15**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**4**	**15**	**Sand**	**16-30**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**2**	**Concrete 2 Bags/Sacks**
	2	**4**	**Bentonite 1 Bags/Sacks**

Seal Method: **Gravity**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Alternative Procedure Used** **Surface Completion by Driller**

Water Level: **8.5 ft.** below land surface on **2018-06-12** Measurement Method: **Steel Tape**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

The driller did certify that while drilling, deepening or otherwise altering the above described well, injurious water or constituents was encountered and the landowner or person having the well drilled was informed that such well must be completed or plugged in such a manner as to avoid injury or pollution.

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Texplor of Dallas, Inc.**

PO Box 793928
Dallas, TX 75379

Driller Name: **Brent Thomason** License Number: **2967**

Apprentice Name: **Cody Sadler**

Comments: **Geotechnical soil boring for Piezometer installation**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**0.5**	**Concrete**
0.5	**8**	**Sand, brown**
8	**12**	**Sand, tan gray**
12	**15**	**Shale, gray**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	**Blank**	**New Plastic (PVC)**	**40**	**0**	**5**
2	**Screen**	**New Plastic (PVC)**	**40 0.1**	**5**	**15**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #500474

Owner:	**City of Irving**	Owner Well #:	**P-1**
Address:	**8901 John W. Carpenter Freeway Dallas, TX 75247**	Grid #:	**33-09-4**
Well Location:	**1809 Glenwick Ln. Irving, TX**	Latitude:	**32° 47' 30.66" N**
		Longitude:	**096° 58' 25.07" W**
Well County:	**Dallas**	Elevation:	**No Data**
Type of Work:	**Geotechnical Piezometer**	Proposed Use:	**Geotechnical Piezometer**

Drilling Start Date: **6/12/2018** Drilling End Date: **6/12/2018**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**10.75**	**0**	**15**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**4**	**15**	**Sand**	**16-30**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**2**	**Concrete 2 Bags/Sacks**
	2	**4**	**Bentonite 1 Bags/Sacks**

Seal Method: **Gravity**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Alternative Procedure Used** **Surface Completion by Driller**

Water Level: **9.5 ft.** below land surface on **2018-06-12** Measurement Method: **Steel Tape**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

The driller did certify that while drilling, deepening or otherwise altering the above described well, injurious water or constituents was encountered and the landowner or person having the well drilled was informed that such well must be completed or plugged in such a manner as to avoid injury or pollution.

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Texplor of Dallas, Inc.**

PO Box 793928
Dallas, TX 75379

Driller Name: **Brent Thomason** License Number: **2967**

Apprentice Name: **Cody Sadler**

Comments: **Geotechnical soil boring for Piezometer installation**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**0.5**	**Concrete**
0.5	**8**	**Sand, brown**
8	**12**	**Sand, tan gray**
12	**15**	**Shale, gray**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4	**Blank**	**New Plastic (PVC)**	**40**	**0**	**5**
4	**Screen**	**New Plastic (PVC)**	**40 0.1**	**5**	**15**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

4L

GW 7

Send original copy by certified mail to the Texas Water Development Board P. O. Box 12386 Austin, Texas 78711

State of Texas

WATER WELL REPORT

For TWDB use only
Well No. 33-09-4L
Located on map 4-15
Received: 77
Form GW 8
Form GW 9

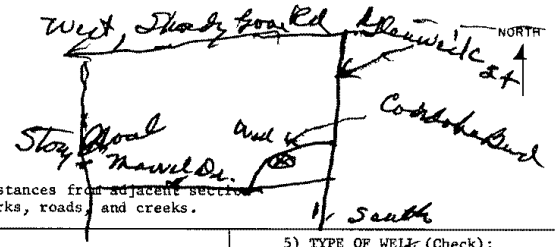
1) OWNER:
Person having well drilled Robt W. Trocke (Name) Address 2021 Cordova Bend (Street or RFD) (City) (State)

Landowner Same (Name) Address Irving, Texas (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Dallas Labor ____ League ____ Abstract No. ____

NW¼ NE¼ SW¼ SE¼ of Section ____ Block No. ____ Survey ____
(Circle as many as are known)

miles in ____ (N.E., S.W., etc.) direction from South Irving. (Town)



Sketch map of well location with distances from adjacent sections or survey lines, and to landmarks, roads, and creeks.

3) TYPE OF WORK (Check):
New Well ☐ Deepening ☐
Reconditioning ☐ Plugging ☐

4) PROPOSED USE (Check):
Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☑ Test Well ☐ Other ☐

5) TYPE OF WELL (Check):
Rotary ☑ Driven ☐ Dug ☐
Cable ☐ Jetted ☐ Bored ☐

6) WELL LOG:
Diameter of hole 8 3/4 in. Depth drilled 16 ft. Depth of completed well 16 ft. Date drilled 8-20-76

All measurements made from ____ ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material	From (ft.)	To (ft.)	Description and color of formation material
0	12	Surface Clay			
12	15	Sdy Gravel			
15	16	Shale			
		Yard Well			

(Use reverse side if necessary)

7) COMPLETION (Check):
Straight wall ☐ Gravel packed ☑ Other ☐
Under reamed ☐ Open hole ☐

8) WATER LEVEL:
Static level ____ ft. below land surface Date ____
Artesian pressure ____ lbs. per square inch Date 8-

9) CASING:
Type: old ☐ New ☑ Steel ☐ Plastic ☑ Other ☐
Cemented from ____ ft. to ____ ft.

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Gage

10) SCREEN:
Type ____
Perforated ☐ Slotted ☐

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Slot size

11) WELL TESTS:
Was a pump test made? ☐ Yes ☐ No If yes by whom?

Yield: ____ gpm with ____ ft. drawdown after ____ hrs
Bailer test ____ gpm with ____ ft. drawdown after ____ hrs
Artesian flow ____ gpm Date ____
Temperature of water ____
Was a chemical analysis made? ☐ Yes ☐ No
Did any strata contain undesirable water? ☐ Yes ☐ No
Type of water? ____ depth of strata ____

12) PUMP DATA:
Manufacturer's Name ____
Type ____ H.P. ____
Designed pumping rate ____ gpm ☐ gph ☐
Type power unit ____
Depth to bowls, cylinder, jet, etc., ____ ft. below land surface.

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME A. B. Hoipkemeier (Type or Print) Water Well Drillers Registration No. 112

Address 3345 Hackberry Rd. (Street or RFD) Grand Prairie (City) Texas (State)

(Signed) A. B. Hoipkemeier (Water Well Driller) A. B. Hoipkemeier Drlng Co. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

Send original copy by certified mail to the Texas Water Development Board P. O. Box 12386 Austin, Texas 78711

State of Texas

WATER WELL REPORT

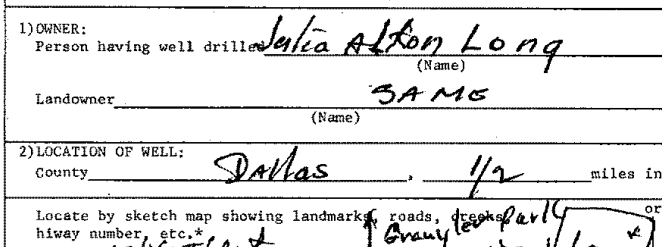
For TWDB use only
Well No. 33-10-48
Located on map yes
Received: Tol
JW

1) OWNER:
Person having well drilled Julia Alton Long (Name) Address 2243 Maist Dallas, Tex (Street or RFD) (City) (State)

Landowner SAME (Name) Address (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Dallas, 1/2 miles in West (N.E., S.W., etc.) direction from Lovefield A.T. (Town)

Locate by sketch map showing landmarks, roads, creeks, or hiway number, etc.*



(Use reverse side if necessary)

or Give legal location with distances and directions from adjacent sections or survey lines.

Labor _____ League _____

Block _____ Survey _____

Abstract No. _____

(NW¼ NE¼ SW¼ SE¼) of Section _____

3) TYPE OF WORK (Check):
New Well ✓ Deepening
Reconditioning Plugging

4) PROPOSED USE (Check):
Domestic Industrial Municipal
Irrigation Test Well Other Yard

5) TYPE OF WELL (Check):
Rotary ✓ Driven Dug
Cable Jetted Bored

6) WELL LOG:
Diameter of hole 6 3/4 in. Depth drilled 48' ft. Depth of completed well 48' ft. Date drilled 6/12/70

All measurements made from 0 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0	40'	yellow clay
40'	48'	Sand & Gravel (ID)

9) Casing:
Type: Old New ✓ Steel Plastic Other
Cemented from _____ ft. to _____ ft.

Diameter (inches)	Setting From (ft.)	To (ft.)	Gage
4	0	48'	

10) SCREEN:
Type _____
Perforated Slotted ✓

Diameter (inches)	Setting From (ft.)	To (ft.)	Slot Size

(Use reverse side if necessary)

7) COMPLETION (Check):
Straight wall Gravel packed ✓ Other
Under reamed Open Hole

8) WATER LEVEL:
Static level _____ ft. below land surface Date _____
Artesian pressure _____ lbs. per square inch Date _____
Depth to pump bowls, cylinder, jet, etc., _____ ft. below land surface.

11) WELL TESTS:
Was a pump test made? Yes No If yes, by whom?
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.
Bailer test _____ gpm with _____ ft. drawdown after _____ hrs.
Artesian flow _____ gpm
Temperature of water _____

12) WATER QUALITY:
Was a chemical analysis made? Yes No
Did any strata contain undesirable water? Yes No
Type of water? _____ depth of strata _____

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME A. B. Hoipkemeier (Type or Print) Water Well Drillers Registration No. 112

ADDRESS P.O. Box 516 (Street or RFD) Irving (City) Texas (State) 75060

(Signed) A. B. Hoipkemeier (Water Well Driller) A. B. Hoipkemeier Drilling Co. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

TWDBE-GW-53

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-17-103

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3317103
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.738611
Latitude (degrees minutes seconds)	32° 44' 19" N
Longitude (decimal degrees)	-96.960556
Longitude (degrees minutes seconds)	096° 57' 38" W
Coordinate Source	+/- 10 Seconds
Aquifer Code	212WDBN - Woodbine Sand
Aquifer	Woodbine
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	467
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	417
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	None
Water Quality Available	Yes
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Naval Air Station
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 6/27/1943 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** U.S. Geological Survey

Sampled Aquifer: Woodbine Sand

Analyzed Lab: **Reliability:** From a report; unknown sample collection & preservation

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		425.41	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		519.15	mg/L	
00910	CALCIUM (MG/L)		5.1	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		80	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.8	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		19	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		1.6	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		1.8	mg/L as NO3	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.12		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		33.65		
00932	SODIUM, CALCULATED, PERCENT		97	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		352	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		230	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		927	mg/L	

Water Quality Analysis

Sample Date: 11/15/1961 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Municipal Water Agency or Public Water Supply Corp

Sampled Aquifer: Woodbine Sand

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: raw supply

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		424	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		517.43	mg/L	
00910	CALCIUM (MG/L)		2	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		53	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.6	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		9	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		440	ug/L	
00920	MAGNESIUM (MG/L)		1	mg/L	
01055	MANGANESE, TOTAL (UG/L AS MN)	<	50	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		2.1	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.3	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.3		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		54.78		
00932	SODIUM, CALCULATED, PERCENT		98	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		380	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1970	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		304	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		998	mg/L	

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
33-17-103

Water Quality Analysis

Sample Date: 11/15/1963 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Municipal Water Agency or Public Water Supply Corp

Sampled Aquifer: Woodbine Sand

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: raw supply

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		432	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		527.19	mg/L	
00910	CALCIUM (MG/L)		1	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		53	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.2	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		6	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		40	ug/L	
00920	MAGNESIUM (MG/L)		1	mg/L	
01055	MANGANESE, TOTAL (UG/L AS MN)	<	100	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.1	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.51		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		64.64		
00932	SODIUM, CALCULATED, PERCENT		99	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		382	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1870	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		323	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1021	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-17-104

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3317104
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.736945
Latitude (degrees minutes seconds)	32° 44' 13" N
Longitude (decimal degrees)	-96.960556
Longitude (degrees minutes seconds)	096° 57' 38" W
Coordinate Source	+/- 10 Seconds
Aquifer Code	212WDBN - Woodbine Sand
Aquifer	Woodbine
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	465
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	485
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	None
Water Quality Available	Yes
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	U.S. Naval Air Station
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 6/27/1943 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** U.S. Geological Survey

Sampled Aquifer: Woodbine Sand

Analyzed Lab: **Reliability:** From a report; unknown sample collection & preservation

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		433.61	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		529.15	mg/L	
00910	CALCIUM (MG/L)		3.2	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		54	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		5.7	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		12	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		1	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		0.2	mg/L as NO3	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.43		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		48.15		
00932	SODIUM, CALCULATED, PERCENT		98	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		377	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		294	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		995	mg/L	

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STATE OF TEXAS WELL REPORT for Tracking #474889

Owner:	**Trademark Property Company**	Owner Well #:	**P-1**
Address:	**1701 River Run, Suite 500 Fort Worth, TX 76107**	Grid #:	**33-10-8**
		Latitude:	**32° 46' 54.8" N**
Well Location:	**505 River Front Dallas, TX**	Longitude:	**096° 49' 06.82" W**
Well County:	**Dallas**	Elevation:	**No Data**

****This well has been plugged**** **Plugging Report Tracking #217759**

Type of Work:	**Geotechnical Piezometer**	Proposed Use:	**Geotechnical Piezometer**

Drilling Start Date: **2/8/2018** Drilling End Date: **2/8/2018**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8**	**0**	**30**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**0**	**30**	**Sand**	**16-30**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**2**	**Concrete 1 Bags/Sacks**
	2	**4**	**Bentonite 1 Bags/Sacks**
	4	**30**	**Sand 12 Bags/Sacks**

Seal Method: **Not Applicable**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Alternative Procedure Used** **Surface Completion by Driller**

Water Level: **27 ft.** below land surface on **2018-02-08**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

The driller did certify that while drilling, deepening or otherwise altering the above described well, injurious water or constituents was encountered and the landowner or person having the well drilled was informed that such well must be completed or plugged in such a manner as to avoid injury or pollution.

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Texplor of Dallas, Inc.**

PO Box 793928
Dallas, TX 75379

Driller Name: **Scott Campbell** License Number: **53439**

Comments: **Geotechnical soil boring and piezometer installation**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**30**	**Clay, sandy dark brown to brown**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	**Blank**	**New Plastic (PVC)**	**40**	**0**	**5**
2	**Screen**	**New Plastic (PVC)**	**40 0.1**	**5**	**30**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-10-822

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3310822
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.764167
Latitude (degrees minutes seconds)	32° 45' 51" N
Longitude (decimal degrees)	-96.819444
Longitude (degrees minutes seconds)	096° 49' 10" W
Coordinate Source	+/- 1 Second
Aquifer Code	218TWMT - Twin Mountains Formation
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	407
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	2750
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1924
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	Yes
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	City of Dallas
Driller	Randolph and Steilsmith
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 6/20/1942 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Other Federal Agencies

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: University of Texas **Reliability:** Reliability unknown or not available

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		427.75	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		522	mg/L	
00910	CALCIUM (MG/L)		6.4	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		88	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.2	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		25	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		0	ug/L	
00920	MAGNESIUM (MG/L)		2.4	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		0	mg/L as NO3	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		8.04		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		34.14		
00932	SODIUM, CALCULATED, PERCENT		96	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		378	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		279	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		43	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1012	mg/L	

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STATE OF TEXAS WELL REPORT for Tracking #408669

Owner:	**Feizy Properties, Ltd**	Owner Well #:	**EMW-3R**
Address:	**1949 N Stemmons Freeway Dallas, TX 75207**	Grid #:	**33-10-5**
Well Location:	**1930 Hi Line Drive Dallas, TX 75202**	Latitude:	**32° 47' 53.5" N**
		Longitude:	**096° 49' 17" W**
Well County:	**Dallas**	Elevation:	**No Data**

****This well has been plugged**** **Plugging Report Tracking #180824**

Type of Work: **New Well** Proposed Use: **Extraction**

Drilling Start Date: **11/5/2015** Drilling End Date: **11/5/2015**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**7.25**	**0**	**62**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Open Hole**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**1**	**Concrete**
	1	**32**	**Bentonite**
	32	**50**	**natve sandy soil (cave-in)**
	50	**60**	**pre-packed filter screen**
	60	**62**	**natve sandy soil (cave-in)**

Seal Method: **Gravity**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **WEST Drilling**

101 Industrial Drive
Waxahachie, TX 75165

Driller Name: **Robert Williams** License Number: **59501**

Apprentice Name: **Joseph Garcia**

Comments: **No Data**

Report Amended on 11/10/2015 by Request #15066

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	40	reddish brown sandy clay
40	62	reddish brown sand with clay

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
1	Riser	New Plastic (PVC)	40	0	50
1	Screen	New Plastic (PVC)	40 0.010	50	60

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Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #408668

Owner:	**Feizy Properties, Ltd**	Owner Well #:	**EMW-2R**
Address:	**1949 N Stemmons Freeway Dallas, TX 75207**	Grid #:	**33-10-5**
Well Location:	**1930 Hi Line Drive Dallas, TX 75207**	Latitude:	**32° 47' 53.5" N**
		Longitude:	**096° 49' 19" W**
Well County:	**Dallas**	Elevation:	**No Data**

****This well has been plugged**** **Plugging Report Tracking #180823**

Type of Work: **New Well** Proposed Use: **Extraction**

Drilling Start Date: **11/5/2015** Drilling End Date: **11/5/2015**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**7.25**	**0**	**61**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Open Hole**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**1**	**Concrete**
	1	**35**	**Bentonite**
	35	**50**	**native sandy soil (cave-in)**
	50	**60**	**pre-packed filter screen**
	60	**61**	**native sandy soil (cave-in)**

Seal Method: **Gravity**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **WEST Drilling**

101 Industrial Drive
Waxahachie, TX 75165

Driller Name: **Robert Williams** License Number: **59501**

Apprentice Name: **Joseph Garcia**

Comments: **No Data**

Report Amended on 11/10/2015 by Request #15065

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	40	reddish brown sandy clay
40	61	reddish brown sand with clay

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
1	Riser	New Plastic (PVC)	40	0	50
1	Screen	New Plastic (PVC)	40 0.010	50	60

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-10-507

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3310507
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.804167
Latitude (degrees minutes seconds)	32° 48' 15" N
Longitude (decimal degrees)	-96.823889
Longitude (degrees minutes seconds)	096° 49' 26" W
Coordinate Source	+/- 10 Seconds
Aquifer Code	212WBPX - Woodbine and Paluxy Formations
Aquifer	Trinity/Woodbine
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	410
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	1423
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1907
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	No
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	City of Dallas
Driller	R.H. Dearing and Son
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.

56 GW 7

Send original copy by certified mail to the Texas Water Development Board P. O. Box 12386 Austin, Texas 78711	State of Texas WATER WELL REPORT	For TWDB use only Well No. 33-09-5? Located on map Received: Form GW 8 Form GW 9

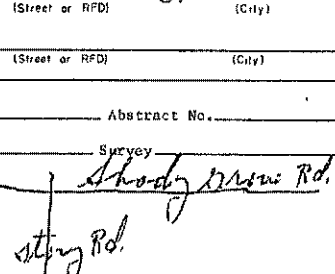
1) OWNER:
Person having well drilled A. S. Wochner (Name) Address Rt. 1 Irving, Texas (Street or RFD) (City) (State)

Landowner same (Name) Address (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Dallas Labor League Abstract No.

NW¼ NE¼ SW¼ SE¼ of Section Block No. Survey
(Circle as many as are known)

1 miles in S (NE, SW, etc.) direction from Shady Grove on Story Rd. (Town)



Sketch map of well location with distances from adjacent section or survey lines, and to landmarks, roads, and creeks.

3) TYPE OF WORK (Check): New Well ☒ Deepening ☐ Reconditioning ☐ Plugging ☐

4) PROPOSED USE (Check): Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

5) TYPE OF WELL (Check): Rotary ☒ Driven ☐ Dug ☐ Cable ☐ Jetted ☐ Bored ☐

6) WELL LOG:
Diameter of hole 6¼ in. Depth drilled 273 ft. Depth of completed well 273 ft. Date drilled 6-10-71

All measurements made from 0 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material	From (ft.)	To (ft.)	Description and color of formation material
0	3	soil	232	233	shale
3	9	yellow clay	233	250	sand
9	16	gravel	250	273	shale
16	20	blue shale			
20	135	brown shale			
135	150	sand			
150	200	shale			
200	232	fine sand			(Use reverse side if necessary)

7) COMPLETION (Check): Straight wall ☒ Gravel packed ☐ Other ☐ Under reamed ☐ Open hole ☐

8) WATER LEVEL:
Static level 200 ft. below land surface Date 6-10-71
Artesian pressure lbs. per square inch Date

9) CASING:
Type: old ☐ New ☒ Steel ☒ Plastic ☐ Other ☐
Cemented from 273 ft. to top ft.
28 sks of cement

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Gage
4½" OD	all the way		

10) SCREEN:
Type
Perforated ☒ Slotted ☐

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Slot size
4½" OD	240	248	9 shots

11) WELL TESTS:
Was a pump test made? ☐ Yes ☐ No If yes by whom?

Yield: gpm with ft. drawdown after hrs
Bailer test gpm with ft. drawdown after hrs
Artesian flow gpm Date
Temperature of water
Was a chemical analysis made? ☐ Yes ☐ No
Did any strata contain undesirable water? ☐ Yes ☐ No
Type of water? depth of strata

12) PUMP DATA:
Manufacturer's Name Red Jacket
Type submersible H.P. 1
Designed pumping rate 10 gpm ☒ gph ☐
Type power unit electric
Depth to bowls, cylinder, jet, etc., 232 ft. below land surface.

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME C. M. Stoner (Type or Print) Water Well Drillers Registration No. 17

Address Rt. 4 Cleburne, Texas (Street or RFD) (City) (State)

(Signed) C. M. Stoner (Water Well Driller) Stoner Drilling Inc. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

4811300258

03/05/2024
05:03:11

Texas Commission on Environmental Quality
DWW Water System Summary Sheet

PWS ID	PWS Name	Central Registry RN
TX0570078	DALLAS COUNTY PARK CITIES MUD Superior	RN104918552

Organization/Customer *	Central Registry CN
DALLAS COUNTY PARK CITIES MUD	CN600656391

*Regulatory mail will be addressed to this organization/person

All Water System Contacts

Type	Contact	Communication	
AC - Administrative Contact - PRESIDENT	STULL, JOHN, F 1811 REGAL ROW DALLAS, TX 75235-2301	**Electronic Type**	**Value**
		Phone Type	**Value**
		BUS - Business	214-354-0947
EC - Emergency Contact - GENERAL MANAGER	MCDANIEL, JOHN, LARRY 1811 REGAL ROW DALLAS, TX 75235-2301	**Electronic Type**	**Value**
		Phone Type	**Value**
		BUS - Business	214-652-8639
		MOB - Mobile	214-394-0859
ECS - Emergency Contact - Secondary - OPERATOR	MCCORMIC, ROBERT 1811 REGAL ROW DALLAS, TX 75235-2301	**Electronic Type**	**Value**
		Phone Type	**Value**
		BUS - Business	214-652-8639
		BUS - Business	214-652-8640
		FAX - Facsimile	214-652-8643
		MOB - Mobile	214-328-7717
FC - Financial Contact - BOOKKEEPER	RICHARDSON, CLINT 1811 REGAL ROW DALLAS, TX 75235-2301	**Phone Type**	**Value**
		BUS - Business	214-652-8639
		FAX - Facsimile	214-652-8643
OW - Owner	DALLAS COUNTY PARK CITIES MUD 1811 REGAL ROW DALLAS, TX 75235-2301	**Phone Type**	**Value**
		BUS - Business	214-652-8639
PWS - Public Water System Contact - OPERATOR	MCCORMIC, ROBERT 1811 REGAL ROW DALLAS, TX 75235-2301	**Electronic Type**	**Value**
		Phone Type	**Value**
		BUS - Business	214-652-8639
		BUS - Business	214-652-8640
		FAX - Facsimile	214-652-8643
		MOB - Mobile	214-328-7717

Operator Grade	Number
SURFACE WATER TREATMENT OPERATOR Grade C	2
WATER OPERATOR Grade A	4
SURFACE WATER TREATMENT OPERATOR Grade B	7

Water Operator Licenses

License Holder:	FREEMAN, JOHN P	
CURRENT	Class: A - WATER OPERATOR	WO0053201
License Holder:	ALTMAN, RICHARD K	
CURRENT	Class: A - WATER OPERATOR	WO0049721
License Holder:	MCCORMIC, ROBERT ARNOLD	
CURRENT	Class: A - WATER OPERATOR	WO0006100
License Holder:	WATKINS, JAMES A	
CURRENT	Class: A - WATER OPERATOR	WO0048434
License Holder:	WALDRAN, MATT E	
CURRENT	Class: B - SURFACE WATER TREATMENT OPERATOR	WS0002288
License Holder:	SWINT, MICHAEL G	
CURRENT	Class: B - SURFACE WATER TREATMENT OPERATOR	WS0009234
License Holder:	CASE, JAMES M	
CURRENT	Class: B - SURFACE WATER TREATMENT OPERATOR	WS0010416
License Holder:	RICHARDSON, CLINTON D	
CURRENT	Class: B - SURFACE WATER TREATMENT OPERATOR	WS0002232
License Holder:	RANDOLPH, ROBERT F	
CURRENT	Class: B - SURFACE WATER TREATMENT OPERATOR	WS0004720
License Holder:	TRUELOVE, LARRY G	
CURRENT	Class: B - SURFACE WATER TREATMENT OPERATOR	WS0006133
License Holder:	COKER, JOE MICHEAL	
CURRENT	Class: B - SURFACE WATER TREATMENT OPERATOR	WS0003649
License Holder:	JORDAN, BRENT K	
CURRENT	Class: C - SURFACE WATER TREATMENT OPERATOR	WS0005283
License Holder:	MCDANIEL, JOHN L	
CURRENT	Class: C - SURFACE WATER TREATMENT OPERATOR	WS0007254
License Holder:	WHITE, BILL B	
EXPIRED	Class: A - WATER OPERATOR	WO0010995
License Holder:	GATHERCOLE, MICHAEL D	
EXPIRED	Class: A - WATER OPERATOR	WO0014063
License Holder:	WATKINS, JAMES A	
EXPIRED	Class: B - SURFACE WATER TREATMENT OPERATOR	WS0014281
License Holder:	SPEEGLE, ALVIN C JR	
EXPIRED	Class: B - SURFACE WATER TREATMENT OPERATOR	WS0004719
License Holder:	ALTMAN, RICHARD K	
EXPIRED	Class: B - SURFACE WATER TREATMENT OPERATOR	WS0014202
License Holder:	FREEMAN, JOHN P	
EXPIRED	Class: B - SURFACE WATER TREATMENT OPERATOR	WS0006287

License Holder:	LOVELL, JEFF W III	
EXPIRED	Class: C - SURFACE WATER TREATMENT OPERATOR	WS0005751
License Holder:	ALTMAN, RICHARD K	
EXPIRED	Class: C - SURFACE WATER TREATMENT OPERATOR	WS0012995
License Holder:	WATKINS, JAMES A	
EXPIRED	Class: C - SURFACE WATER TREATMENT OPERATOR	WS0010226

Owner Type	Owner Type Options: COUNTY, DISTRICT, FEDERAL GOVERNMENT, INVESTOR OWNED, MUNICIPALITY, NATIVE AMERICAN, PRIVATE, STATE GOVERNMENT, WATER SUPPLY CORPORATION
District	

System Type	System Type Options: COMMUNITY, TRANSIENT/NON-COMMUNITY, NON-PUBLIC, NON-TRANSIENT/NON-COMMUNITY
C - Community	

Population Type	Population Served	# of Connect	# I/C w/other PWS
Wholesale	32030	14145	3

Total Product (MGD)	Average Daily Consump.	Max Daily Demand (MGD)	Total Storage (MG)	Elev. Storage (MG)	Service Pump Cap.	Max.Purchase Cap.(MGD/GPM)	Pressure Tank Cap. (MG)
	7.6330 MGD	####### MGD Occurred on 09/08/2016	10 MG		43.2 MGD		

Activity Status	Inactivation Date
A - ACTIVE	

Last Survey Date	Surveyor	Survey Type	Region	County
06/17/2021	KENDALL KOTARA	Sanitary Survey	ARLINGTON	DALLAS
06/17/2021	MERISSA GREEN	Sanitary Survey	ARLINGTON	DALLAS
09/28/2017	DANIEL HERNANDEZ	Sanitary Survey	ARLINGTON	DALLAS

(Treatment Plant)							
Entry Point	EP Name/Source Summation (Activity Status)	Plant Name (Activity Status)	Plant Num	Chemical Mon Type	Chem Sample Point	Distribution Mon Type	Dist Sample Point
EP001	TRT-TAP / Surface Water(A)	SWTP PLANT - 1811 REGAL ROW(A)	TP14787		NO		NO

Train:	A

(Treatments)				
Disinfection Zone	Treatment Sequence	Objective	Process	Treatment
D1	1	P	600	RAPID MIX
D1	2	C	901	PH ADJUSTMENT (PRE, LIME)
D1	3	P	240	COAGULATION
D1	4	P	360	FLOCCULATION
D0	5	P	660	SEDIMENTATION
D0	6	Z	997	RECYCLE STREAM RETURNED
D1	7	P	660	SEDIMENTATION
D2	8	D	999	DETENTION TIME
D2	9	P	345	FILTRATION, RAPID SAND
D2	10	D	423	HYPOCHLORINATION, PRE
D2	11	D	890	CHLORAMINES (PRE)
D0	12	P	863	FILTRATION (MICRO MEMBRANES)
D3	13	D	999	DETENTION TIME

(Active Sources)						
Source Number	Source Name (Activity Status)	Operational Status	Source Type	Depth	Tested GPM	Rated GPM
S0570078A	INTAKE 1 (A)	P	S	N/A	N/A	N/A

Drill Date		Source Summary		
None Available		ELM FORK TRINITY RIVER		
GPS Latitude (decimal)	GPS Longitude (decimal)	GPS Elevation	GPS Date	Seller
32.844319	-96.875772	405	03/26/2007	Not Purchasing

(Inactive/Offline Sources)			
SourceNumber	Name	Status	Depth

Code Explanations
Monitoring Type Codes: (GW) GROUNDWATER , (GUP) GROUNDWATER UNDER THE INFLUENCE - PURCHASED , (SWP) SURFACE WATER - PURCHASED , (GU) GROUNDWATER UNDER THE INFLUENCE OF SURFACE WATER , (N) NO SOURCES , (SW) SURFACE WATER
Activity Status Codes: (A) ACTIVE , (D) DELETED/DISSOLVED , (I) INACTIVE , (P) PROPOSED ,
Operational Status Codes: (E) EMERGENCY , (I) INTERIM/PEAK (O) OTHER , (P) PERMANENT , (S) SEASONAL
Source Types: (G) GROUND WATER , (S) SURFACE WATER , (U) GROUND WATER UNDER THE INFLUENCE

- End of Report -

At the time of your query this data was the most current information available from our database, which is in real time. Every effort was made to retrieve it according to your query. Thank-you for using DWW.

STATE OF TEXAS WELL REPORT for Tracking #537670

Owner:	**DWU**	Owner Well #:	**No Data**
Address:	**1500 Marilla St Dallas, TX 75220**	Grid #:	**33-10-1**
Well Location:	**Harry Hines at Shorecrest Dallas, TX**	Latitude:	**32° 50' 36.24" N**
		Longitude:	**096° 52' 22.8" W**
Well County:	**Dallas**	Elevation:	**426 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Piezometer - Water Level Measurements**

Drilling Start Date: **1/13/2020** Drilling End Date: **1/13/2020**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8**	**0**	**40**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Perforated or Slotted**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**2**	**Cement 2 Bags/Sacks**
	2	**20**	**Bentonite 12 Bags/Sacks**
	20	**30**	**Sand 6 Bags/Sacks**
	30	**40**	**Bentonite 6 Bags/Sacks**

Seal Method: **Poured**

Sealed By: **Driller**

Distance to Property Line (ft.): **N/A**

Distance to Septic Field or other concentrated contamination (ft.): **N/A**

Distance to Septic Tank (ft.): **N/A**

Method of Verification: **N/A**

Surface Completion: **Flush Mount-Vault** **Surface Completion by Driller**

Water Level: **28 ft.** below land surface on **2020-01-13** Measurement Method: **Electric Line**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Fugro**

2880 Virgo Lane
Dallas, TX 75229

Driller Name: **Donald R Ives** License Number: **54846**

Comments: **None**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	22	Brown/Grey clay, soft most, (gravel and organics near surface)
22	26	Grey clay
26	28	Brown/Grey Sandy Clay, soft, wet
28	40	Grey/Brown Fat Clay, soft, moist

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	Blank	New		0	20
2	Perforated or Slotted	New	0.010	20	30
2	Blank	New		30	40

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-10-802

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3310802
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.785834
Latitude (degrees minutes seconds)	32° 47' 09" N
Longitude (decimal degrees)	-96.816667
Longitude (degrees minutes seconds)	096° 49' 00" W
Coordinate Source	+/- 1 Second
Aquifer Code	218TWMT - Twin Mountains Formation
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	402
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	2728
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1950
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Industrial
Water Level Observation	None
Water Quality Available	No
Pump	Turbine
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Dallas Power and Light
Driller	Layne-Texas
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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STATE OF TEXAS WELL REPORT for Tracking #482125

Owner:	**Trademark Property Company**	Owner Well #:	**P-6**
Address:	**1701 River Run, Suite 500 Fort Worth, TX 76107**	Grid #:	**33-10-8**
		Latitude:	**32° 46' 48.97" N**
Well Location:	**505 River Front Dallas, TX**	Longitude:	**096° 48' 55.3" W**
Well County:	**Dallas**	Elevation:	**No Data**
Type of Work:	**Geotechnical Piezometer**	Proposed Use:	**Geotechnical Piezometer**

Drilling Start Date: **4/18/2018** Drilling End Date: **4/18/2018**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8**	**0**	**30**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**2**	**30**	**Sand**	**16-30**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**2**	**Concrete 1 Bags/Sacks**
	2	**4**	**Bentonite 1 Bags/Sacks**
	4	**30**	**Sand 13 Bags/Sacks**

Seal Method: **Not Applicable**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Alternative Procedure Used** **Surface Completion by Driller**

Water Level: **20 ft.** below land surface on **2018-04-18**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

The driller did certify that while drilling, deepening or otherwise altering the above described well, injurious water or constituents was encountered and the landowner or person having the well drilled was informed that such well must be completed or plugged in such a manner as to avoid injury or pollution.

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Texplor of Dallas, Inc.**

PO Box 793928
Dallas, TX 75379

Driller Name: **Brent Thomason** License Number: **53439**

Comments: **Geotechnical soil boring and piezometer installation**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**30**	**Clay, sandy dark brown to brown**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	**Blank**	**New Plastic (PVC)**	**40**	**0**	**5**
2	**Screen**	**New Plastic (PVC)**	**40 0.010**	**5**	**30**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #474896

Owner:	**Trademark Property Company**	Owner Well #:	**P-4**
Address:	**1701 River Run, Suite 500 Fort Worth, TX 76107**	Grid #:	**33-10-8**
Well Location:	**505 River Front Dallas, TX**	Latitude:	**32° 46' 48.97" N**
		Longitude:	**096° 48' 55.3" W**
Well County:	**Dallas**	Elevation:	**No Data**
Type of Work:	**Geotechnical Piezometer**	Proposed Use:	**Geotechnical Piezometer**

Drilling Start Date: **2/8/2018** Drilling End Date: **2/8/2018**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8**	**0**	**30**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**0**	**30**	**Sand**	**16-30**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**2**	**Concrete 1 Bags/Sacks**
	2	**4**	**Bentonite 1 Bags/Sacks**
	4	**30**	**Sand 13 Bags/Sacks**

Seal Method: **Not Applicable**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Alternative Procedure Used** **Surface Completion by Driller**

Water Level: **0 ft.** below land surface on **2018-02-08**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

The driller did certify that while drilling, deepening or otherwise altering the above described well, injurious water or constituents was encountered and the landowner or person having the well drilled was informed that such well must be completed or plugged in such a manner as to avoid injury or pollution.

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Texplor of Dallas, Inc.**

PO Box 793928
Dallas, TX 75379

Driller Name: **Scott Campbell** License Number: **53439**

Comments: **Geotechnical soil boring and piezometer installation**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**30**	**Clay, sandy dark brown to brown**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	**Blank**	**New Plastic (PVC)**	**40**	**0**	**5**
2	**Screen**	**New Plastic (PVC)**	**40 0.010**	**5**	**30**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #482126

Owner:	**Trademark Property Company**	Owner Well #:	**P-5**
Address:	**1701 River Run, Suite 500 Fort Worth, TX 76107**	Grid #:	**33-10-8**
Well Location:	**505 River Front Dallas, TX**	Latitude:	**32° 46' 48.97" N**
		Longitude:	**096° 48' 55.3" W**
Well County:	**Dallas**	Elevation:	**No Data**
Type of Work:	**Geotechnical Piezometer**	Proposed Use:	**Geotechnical Piezometer**

Drilling Start Date: **4/18/2018** Drilling End Date: **4/18/2018**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8**	**0**	**30**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**2**	**30**	**Sand**	**16-30**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**2**	**Concrete 1 Bags/Sacks**
	2	**4**	**Bentonite 1 Bags/Sacks**
	4	**30**	**Sand 13 Bags/Sacks**

Seal Method: **Not Applicable**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Alternative Procedure Used** **Surface Completion by Driller**

Water Level: **16 ft.** below land surface on **2018-04-18**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

The driller did certify that while drilling, deepening or otherwise altering the above described well, injurious water or constituents was encountered and the landowner or person having the well drilled was informed that such well must be completed or plugged in such a manner as to avoid injury or pollution.

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Texplor of Dallas, Inc.**

PO Box 793928
Dallas, TX 75379

Driller Name: **Brent Thomason** License Number: **53439**

Comments: **Geotechnical soil boring and piezometer installation**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**30**	**Clay, sandy dark brown to brown**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	**Blank**	**New Plastic (PVC)**	**40**	**0**	**5**
2	**Screen**	**New Plastic (PVC)**	**40 0.010**	**5**	**30**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #474894

Owner:	**Trademark Property Company**	Owner Well #:	**P-3**
Address:	**1701 River Run, Suite 500 Fort Worth, TX 76107**	Grid #:	**33-10-8**
		Latitude:	**32° 46' 48.11" N**
Well Location:	**505 River Front Dallas, TX**	Longitude:	**096° 49' 03.11" W**
Well County:	**Dallas**	Elevation:	**No Data**
Type of Work:	**Geotechnical Piezometer**	Proposed Use:	**Geotechnical Piezometer**

Drilling Start Date: **2/8/2018** Drilling End Date: **2/8/2018**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8**	**0**	**30**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**0**	**30**	**Sand**	**16-30**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**2**	**Concrete 1 Bags/Sacks**
	2	**4**	**Bentonite 1 Bags/Sacks**
	4	**30**	**Sand 13 Bags/Sacks**

Seal Method: **Not Applicable**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Alternative Procedure Used** **Surface Completion by Driller**

Water Level: **17 ft.** below land surface on **2018-02-08**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

The driller did certify that while drilling, deepening or otherwise altering the above described well, injurious water or constituents was encountered and the landowner or person having the well drilled was informed that such well must be completed or plugged in such a manner as to avoid injury or pollution.

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Texplor of Dallas, Inc.**

PO Box 793928
Dallas, TX 75379

Driller Name: **Scott Campbell** License Number: **53439**

Comments: **Geotechnical soil boring and piezometer installation**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**30**	**Clay, sandy dark brown to brown**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	**Blank**	**New Plastic (PVC)**	**40**	**0**	**5**
2	**Screen**	**New Plastic (PVC)**	**40 0.010**	**5**	**30**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #474892

Owner:	**Trademark Property Company**	Owner Well #:	**P-2**
Address:	**1701 River Run, Suite 500 Fort Worth, TX 76107**	Grid #:	**33-10-8**
		Latitude:	**32° 46' 57.94" N**
Well Location:	**505 River Front Dallas, TX**	Longitude:	**096° 48' 58.68" W**
Well County:	**Dallas**	Elevation:	**No Data**

****This well has been plugged**** **Plugging Report Tracking #217760**

Type of Work:	**Geotechnical Piezometer**	Proposed Use:	**Geotechnical Piezometer**

Drilling Start Date: **2/8/2018** Drilling End Date: **2/8/2018**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8**	**0**	**30**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**0**	**30**	**Sand**	**16-30**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**2**	**Concrete 1 Bags/Sacks**
	2	**4**	**Bentonite 1 Bags/Sacks**
	4	**30**	**Sand 12 Bags/Sacks**

Seal Method: **Not Applicable**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Alternative Procedure Used** **Surface Completion by Driller**

Water Level: **24 ft.** below land surface on **2018-02-08**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

The driller did certify that while drilling, deepening or otherwise altering the above described well, injurious water or constituents was encountered and the landowner or person having the well drilled was informed that such well must be completed or plugged in such a manner as to avoid injury or pollution.

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Texplor of Dallas, Inc.**

PO Box 793928
Dallas, TX 75379

Driller Name: **Scott Campbell** License Number: **53439**

Comments: **Geotechnical soil boring and piezometer installation**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**30**	**Clay, sandy dark brown to brown**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	**Blank**	**New Plastic (PVC)**	**40**	**0**	**5**
2	**Screen**	**New Plastic (PVC)**	**40 0.010**	**5**	**30**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-10-815

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3310815
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.777222
Latitude (degrees minutes seconds)	32° 46' 38" N
Longitude (decimal degrees)	-96.814723
Longitude (degrees minutes seconds)	096° 48' 53" W
Coordinate Source	+/- 5 Seconds
Aquifer Code	212WDBN - Woodbine Sand
Aquifer	Woodbine
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	395
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	856
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1952
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	No
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Dallas Concrete Co
Driller	J.L. Myers Sons
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.

03/05/2024
05:03:31

Texas Commission on Environmental Quality
DWW Water System Summary Sheet

PWS ID	PWS Name	Central Registry RN
TX0570004	DALLAS WATER UTILITY Superior	RN101227189

Organization/Customer *	Central Registry CN
CITY OF DALLAS	CN600331730

*Regulatory mail will be addressed to this organization/person

All Water System Contacts

Type	Contact	Communication	
		Phone Type	**Value**
AC - Administrative Contact - MAYOR	JOHNSON, ERIC 1500 MARILLA ST STE 5EN DALLAS, TX 75201-6318	BUS - Business	214-670-3301
		FAX - Facsimile	214-670-0646
OW - Owner	CITY OF DALLAS 1500 MARILLA ST STE 5EN DALLAS, TX 75201-6318		
		Electronic Type	**Value**
		Phone Type	**Value**
PWS - Public Water System Contact - ASSISTANT DIRECTOR I	STENCEL, REGINA 1500 MARILLA ST RM 4AN DALLAS, TX 75201-6318	BUS - Business	214-671-9184
		MOB - Mobile	214-629-6012

Operator Grade	Number
CUSTOMER SERVICE INSPECTOR	1
SURFACE WATER TREATMENT OPERATOR Grade B	8
WATER DISTRIBUTION OPERATOR Grade C	6
SURFACE WATER TREATMENT OPERATOR Grade C	2
WATER OPERATOR Grade D	2
WATER DISTRIBUTION OPERATOR Grade B	2
WATER OPERATOR Grade A	5

Water Operator Licenses

License Holder:	BARBIAN, IVAN L	
CURRENT	Class: A - WATER OPERATOR	WO0042238
License Holder:	KADRY, AHMED Y	
CURRENT	Class: A - WATER OPERATOR	WO0008665
License Holder:	CROWLEY, JIM R	
CURRENT	Class: A - WATER OPERATOR	WO0013178
License Holder:	JOHNSON, MATTHEW D	
CURRENT	Class: A - WATER OPERATOR	WO0052271
License Holder:	JAMES, SKARIAH P	
CURRENT	Class: A - WATER OPERATOR	WO0013218
License Holder:	LOPEZ, JUAN C	

CURRENT	Class: B - WATER DISTRIBUTION OPERATOR	WD0007723
License Holder:	DONOVAN, PATRICK R	
CURRENT	Class: B - WATER DISTRIBUTION OPERATOR	WD0000320
License Holder:	STRICKLAND, TIM J	
CURRENT	Class: B - SURFACE WATER TREATMENT OPERATOR	WS0005471
License Holder:	LIM, MOON H	
CURRENT	Class: B - SURFACE WATER TREATMENT OPERATOR	WS0002058
License Holder:	TAYLOR, JOHN Z	
CURRENT	Class: B - SURFACE WATER TREATMENT OPERATOR	WS0000836
License Holder:	TUDOR, RICHARD J	
CURRENT	Class: B - SURFACE WATER TREATMENT OPERATOR	WS0001410
License Holder:	EVERS, PAUL J	
CURRENT	Class: B - SURFACE WATER TREATMENT OPERATOR	WS0001445
License Holder:	ASHCRAFT, LELAND D	
CURRENT	Class: B - SURFACE WATER TREATMENT OPERATOR	WS0005550
License Holder:	SULLENS, CHRISTOPHER H	
CURRENT	Class: B - SURFACE WATER TREATMENT OPERATOR	WS0013160
License Holder:	RAMDHAN, ADRIAN Y	
CURRENT	Class: B - SURFACE WATER TREATMENT OPERATOR	WS0008387
License Holder:	ROBERSON, RONALD K	
CURRENT	Class: C - SURFACE WATER TREATMENT OPERATOR	WS0003625
License Holder:	HICKS, DONALD R JR	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0012330
License Holder:	SALINAS, FRANCISCO J	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0015787
License Holder:	VANEGAS, IVANOVICH A	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0012743
License Holder:	ENGEL, JEFF S	
CURRENT	Class: C - SURFACE WATER TREATMENT OPERATOR	WS0002912
License Holder:	STRICKLAND, TIM J	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0002513
License Holder:	FOUST, EDWARD J	
CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0000901
License Holder:	THOMAS, CHARLES D II	

CURRENT	Class: C - WATER DISTRIBUTION OPERATOR	WD0013834
License Holder:	COOPER, LOUIS C	
CURRENT	Class: D - WATER OPERATOR	WO0008922
License Holder:	SESSION, RICHARD L	
CURRENT	Class: D - WATER OPERATOR	WO0006303
License Holder:	MORRISON, MICKAL F	
CURRENT	Class: NONE - CUSTOMER SERVICE INSPECTOR	CI0002081
License Holder:	ALAMENE, HERMON J	
EXPIRED	Class: A - WATER OPERATOR	WO0003422
License Holder:	JACOB, PULIKUNNIL C	
EXPIRED	Class: A - WATER OPERATOR	WO0033470
License Holder:	BARBIAN, IVAN L	
EXPIRED	Class: B - SURFACE WATER TREATMENT OPERATOR	WS0011943
License Holder:	JOHNSON, MATTHEW D	
EXPIRED	Class: B - SURFACE WATER TREATMENT OPERATOR	WS0010848
License Holder:	GUZMAN, GAMALIEL	
EXPIRED	Class: B - SURFACE WATER TREATMENT OPERATOR	WS0005330
License Holder:	LEE, ROBERT T	
EXPIRED	Class: B - SURFACE WATER TREATMENT OPERATOR	WS0000817
License Holder:	MALINARO, ANN M	
EXPIRED	Class: B - SURFACE WATER TREATMENT OPERATOR	WS0011923
License Holder:	MCCURDY, WILLIAM C	
EXPIRED	Class: B - SURFACE WATER TREATMENT OPERATOR	WS0002645
License Holder:	SMITH, JAMAINE T	
EXPIRED	Class: B - SURFACE WATER TREATMENT OPERATOR	WS0001694
License Holder:	TURNER, WESLEY I	
EXPIRED	Class: B - SURFACE WATER TREATMENT OPERATOR	WS0002327
License Holder:	YELLOWFISH, JAMES L	
EXPIRED	Class: B - SURFACE WATER TREATMENT OPERATOR	WS0002331
License Holder:	PIERCE, DAVID EARL	
EXPIRED	Class: B - SURFACE WATER TREATMENT OPERATOR	WS0000499
License Holder:	SULLENS, CHRISTOPHER H	
EXPIRED	Class: C - SURFACE WATER TREATMENT OPERATOR	WS0006109
License Holder:	BEITZ, PHILIP D	
EXPIRED	Class: C - SURFACE WATER TREATMENT OPERATOR	WS0001348
License Holder:	WALDEN, JOHN D	
EXPIRED	Class: C - WATER DISTRIBUTION OPERATOR	WD0013322

License Holder:	LEE, RENE A	
EXPIRED	Class: C - SURFACE WATER TREATMENT OPERATOR	WS0000973
License Holder:	TUCKER, SHERRIE	
EXPIRED	Class: C - SURFACE WATER TREATMENT OPERATOR	WS0005152
License Holder:	MORMAN, JERRY R	
EXPIRED	Class: C - WATER DISTRIBUTION OPERATOR	WD0011053
License Holder:	RIDGEWAY, ARNOLD J	
EXPIRED	Class: C - SURFACE WATER TREATMENT OPERATOR	WS0001878
License Holder:	HENRY, LONNIE G	
EXPIRED	Class: D - WATER OPERATOR	WO0030985
License Holder:	SALINAS, FRANCISCO J	
EXPIRED	Class: D - WATER OPERATOR	WO0008834
License Holder:	ESPOSITO, MICHAEL R	
EXPIRED	Class: D - WATER OPERATOR	WO0009523

Owner Type	Owner Type Options: COUNTY, DISTRICT, FEDERAL GOVERNMENT, INVESTOR OWNED, MUNICIPALITY, NATIVE AMERICAN, PRIVATE, STATE GOVERNMENT, WATER SUPPLY CORPORATION
Municipality	

System Type	System Type Options: COMMUNITY, TRANSIENT/NON-COMMUNITY, NON-PUBLIC, NON-TRANSIENT/NON-COMMUNITY
C - Community	

Population Type	Population Served	# of Connect	# I/C w/other PWS
Wholesale	1367317	490217	48
Residential	1321740	544916	0
Total	2689057	1035133	0

Total Product (MGD)	Average Daily Consump.	Max Daily Demand (MGD)	Total Storage (MG)	Elev. Storage (MG)	Service Pump Cap.	Max.Purchase Cap.(MGD/GPM)	Pressure Tank Cap. (MG)
####### MGD	####### MGD	####### MGD Occurred on 02/18/2021	277.46 MG	###### MG	1077.1 MGD		

Activity Status	Inactivation Date
A - ACTIVE	

Last Survey Date	Surveyor	Survey Type	Region	County
05/06/2022	BRENDA KIRLIN	Sanitary Survey	ARLINGTON	DALLAS
05/06/2022	SCOTT GILREIN	Sanitary Survey	ARLINGTON	DALLAS

(Treatment Plant)							
Entry Point	EP Name/Source Summation (Activity Status)	Plant Name (Activity Status)	Plant Num	Chemical Mon Type	Chem Sample Point	Distribution Mon Type	Dist Sample Point
EP002	TRT-TAP / Surface Water(A)	SWTP - BACHMAN - 2605 SHORECREST(A)	TP14784		NO		NO

Train:	A			
(Treatments)				
Disinfection Zone	Treatment Sequence	Objective	Process	Treatment
D0	1	D	543	OZONATION, PRE
D1	2	D	543	OZONATION, PRE
D2	3	D	543	OZONATION, PRE
D2	4	D	403	GASEOUS CHLORINATION, PRE
D2	5	D	890	CHLORAMINES (PRE)
D3	6	P	600	RAPID MIX
D3	7	P	360	FLOCCULATION
D4	8	P	660	SEDIMENTATION
D4	9	D	403	GASEOUS CHLORINATION, PRE
D4	10	D	890	CHLORAMINES (PRE)
D5	11	P	660	SEDIMENTATION
D6	12	P	348	FILTERED
D7	13	D	999	DETENTION TIME
D7	14	D	401	GASEOUS CHLORINATION, POST
D7	15	D	891	CHLORAMINES (POST)
D8	16	D	999	DETENTION TIME

Train:	B			
(Treatments)				
Disinfection Zone	Treatment Sequence	Objective	Process	Treatment
D0	1	D	543	OZONATION, PRE
D1	2	D	543	OZONATION, PRE
D2	3	D	543	OZONATION, PRE
D2	4	D	403	GASEOUS CHLORINATION, PRE
D2	5	D	890	CHLORAMINES (PRE)
D3	6	P	600	RAPID MIX
D3	6	D	890	CHLORAMINES (PRE)
D3	7	P	360	FLOCCULATION
D4	8	P	660	SEDIMENTATION
D4	9	D	403	GASEOUS CHLORINATION, PRE
D4	10	D	890	CHLORAMINES (PRE)
D5	11	P	660	SEDIMENTATION

D6	12	P	348	FILTERED
D6	12	D	999	DETENTION TIME
D7	13	D	999	DETENTION TIME
D7	14	D	401	GASEOUS CHLORINATION, POST
D7	15	D	891	CHLORAMINES (POST)
D8	16	D	999	DETENTION TIME

(Active Sources)

Source Number	Source Name (Activity Status)	Operational Status	Source Type	Depth	Tested GPM	Rated GPM
S0570004C	INTAKE 3 - ELM FORK TRINITY R / BACHMAN (A)	P	S	N/A	N/A	N/A

Drill Date	Source Summary
None Available	ELM FORK TRINITY RIVER

GPS Latitude (decimal)	GPS Longitude (decimal)	GPS Elevation	GPS Date	Seller
32.847271	-96.882927	410	08/16/2005	Not Purchasing

(Inactive/Offline Sources)

SourceNumber	Name	Status	Depth

(Treatment Plant)

Entry Point	EP Name/Source Summation (Activity Status)	Plant Name (Activity Status)	Plant Num	Chemical Mon Type	Chem Sample Point	Distribution Mon Type	Dist Sample Point
EP001	TRT-TAP / Surface Water(A)	SWTP - EAST SIDE - 405 LONG CREEK RD(A)	TP14785		NO		NO

Train: A

(Treatments)

Disinfection Zone	Treatment Sequence	Objective	Process	Treatment
D0	1	D	890	CHLORAMINES (PRE)
D1	2	D	543	OZONATION, PRE
D2	3	D	543	OZONATION, PRE
D3	4	D	543	OZONATION, PRE
D4	5	D	543	OZONATION, PRE
D0	6	D	999	DETENTION TIME
D0	7	D	423	HYPOCHLORINATION, PRE
D0	8	D	890	CHLORAMINES (PRE)
D0	9	P	600	RAPID MIX
D0	10	P	240	COAGULATION
D0	11	P	240	COAGULATION
D0	12	O	901	PH ADJUSTMENT (PRE, LIME)
D5	13	P	360	FLOCCULATION
D5	14	P	660	SEDIMENTATION
D0	15	P	348	FILTERED

D0	15	Z	997	RECYCLE STREAM RETURNED
D0	16	P	348	FILTERED
D0	17	D	421	HYPOCHLORINATION, POST
D0	18	C	904	PH ADJUSTMENT (POST, LIME)
D0	19	Z	380	FLUORIDATION
D0	20	D	891	CHLORAMINES (POST)
D0	20	D	999	DETENTION TIME

Train:	B			
(Treatments)				
Disinfection Zone	Treatment Sequence	Objective	Process	Treatment
D0	1	D	890	CHLORAMINES (PRE)
D1	2	D	543	OZONATION, PRE
D2	3	D	543	OZONATION, PRE
D3	4	D	543	OZONATION, PRE
D4	5	D	543	OZONATION, PRE
D0	6	D	999	DETENTION TIME
D0	7	D	423	HYPOCHLORINATION, PRE
D0	8	D	890	CHLORAMINES (PRE)
D0	9	P	600	RAPID MIX
D0	10	P	240	COAGULATION
D0	11	P	240	COAGULATION
D0	12	O	901	PH ADJUSTMENT (PRE, LIME)
D5	13	P	360	FLOCCULATION
D5	14	P	660	SEDIMENTATION
D0	15	P	348	FILTERED
D0	15	Z	997	RECYCLE STREAM RETURNED
D0	16	P	348	FILTERED
D0	17	D	421	HYPOCHLORINATION, POST
D0	18	C	904	PH ADJUSTMENT (POST, LIME)
D0	19	Z	380	FLUORIDATION
D0	20	D	891	CHLORAMINES (POST)
D0	20	D	999	DETENTION TIME

Train:	C			
(Treatments)				
Disinfection Zone	Treatment Sequence	Objective	Process	Treatment
D0	1	D	890	CHLORAMINES (PRE)
D1	2	D	543	OZONATION, PRE
D2	3	D	543	OZONATION, PRE
D3	4	D	543	OZONATION, PRE
D4	5	D	543	OZONATION, PRE
D0	6	D	999	DETENTION TIME
D0	7	D	423	HYPOCHLORINATION, PRE
D0	8	D	890	CHLORAMINES (PRE)
D0	9	P	600	RAPID MIX

D0	10	P	240	COAGULATION
D0	11	P	240	COAGULATION
D0	12	P	901	PH ADJUSTMENT (PRE, LIME)
D5	13	P	360	FLOCCULATION
D5	14	P	660	SEDIMENTATION
D0	15	P	348	FILTERED
D0	15	Z	997	RECYCLE STREAM RETURNED
D0	16	P	348	FILTERED
D0	17	D	421	HYPOCHLORINATION, POST
DO	18	C	904	PH ADJUSTMENT (POST, LIME)
D0	19	Z	380	FLUORIDATION
D0	20	D	891	CHLORAMINES (POST)
D0	20	D	999	DETENTION TIME

Train:	D			
(Treatments)				
Disinfection Zone	Treatment Sequence	Objective	Process	Treatment
D0	1	D	890	CHLORAMINES (PRE)
D1	2	D	543	OZONATION, PRE
D2	3	D	543	OZONATION, PRE
D3	4	D	543	OZONATION, PRE
D4	5	D	543	OZONATION, PRE
D0	6	D	999	DETENTION TIME
D0	7	D	423	HYPOCHLORINATION, PRE
D0	8	D	890	CHLORAMINES (PRE)
D0	9	P	600	RAPID MIX
D0	10	P	240	COAGULATION
D0	11	P	240	COAGULATION
D0	12	O	901	PH ADJUSTMENT (PRE, LIME)
D5	13	P	360	FLOCCULATION
D5	14	P	660	SEDIMENTATION
D0	15	P	348	FILTERED
D0	15	Z	997	RECYCLE STREAM RETURNED
D0	16	P	348	FILTERED
D0	17	D	421	HYPOCHLORINATION, POST
D0	18	C	904	PH ADJUSTMENT (POST, LIME)
D0	19	Z	380	FLUORIDATION
D0	20	D	891	CHLORAMINES (POST)
D0	20	D	999	DETENTION TIME

(Active Sources)						
Source Number	Source Name (Activity Status)	Operational Status	Source Type	Depth	Tested GPM	Rated GPM
S0570004B	INTAKE 2 - RAY HUBBARD (A)	P	S	N/A	N/A	N/A

Drill Date	Source Summary
None Available	LAKE RAY HUBBARD

GPS Latitude (decimal)	GPS Longitude (decimal)	GPS Elevation	GPS Date	Seller			
32.80722	-96.52774	434	08/16/2005	Not Purchasing			
Source Number	Source Name (Activity Status)		Operational Status	Source Type	Depth	Tested GPM	Rated GPM
S0570004A	INTAKE 1 - IRON BRIDGE (LAKE TAWAKONI) (A)		P	S	N/A	N/A	N/A

Drill Date	Source Summary
None Available	LAKE TAWAKONI

GPS Latitude (decimal)	GPS Longitude (decimal)	GPS Elevation	GPS Date	Seller			
32.850681	-96.006348	444	08/16/2005	Not Purchasing			
Source Number	Source Name (Activity Status)		Operational Status	Source Type	Depth	Tested GPM	Rated GPM
S0570004E	INTAKE 5 - LAKE FORK (A)		P	S	N/A	N/A	N/A

Drill Date	Source Summary
None Available	

GPS Latitude (decimal)	GPS Longitude (decimal)	GPS Elevation	GPS Date	Seller
32.836911	-95.605008	0	11/09/2016	Not Purchasing

(Inactive/Offline Sources)			
SourceNumber	Name	Status	Depth

(Treatment Plant)							
Entry Point	EP Name/Source Summation (Activity Status)	Plant Name (Activity Status)	Plant Num	Chemical Mon Type	Chem Sample Point	Distribution Mon Type	Dist Sample Point
EP003	TRT-TAP / Surface Water(A)	SWTP - ELM FORK - 1440 WHITLOCK LN(A)	TP14786		NO		NO

Train:	A			
(Treatments)				
Disinfection Zone	Treatment Sequence	Objective	Process	Treatment
D1	1	D	543	OZONATION, PRE
D1	2	D	423	HYPOCHLORINATION, PRE
D1	3	D	890	CHLORAMINES (PRE)
D0	4	P	600	RAPID MIX
D0	5	P	240	COAGULATION
D0	6	P	240	COAGULATION
D0	7	O	901	PH ADJUSTMENT (PRE, LIME)
D2	8	P	360	FLOCCULATION
D2	9	P	660	SEDIMENTATION
D2	10	P	240	COAGULATION

D2	11	P	240	COAGULATION
D0	12	Z	380	FLUORIDATION
D2	13	O	909	PH ADJUSTMENT (PRE, RECARB)
D2	14	P	360	FLOCCULATION
D2	15	P	660	SEDIMENTATION
D0	16	P	660	SEDIMENTATION
D0	16	Z	997	RECYCLE STREAM RETURNED
D2	17	O	909	PH ADJUSTMENT (PRE, RECARB)
D2	18	P	860	FILTRATION (DUAL MEDIA)
D2	19	D	999	DETENTION TIME
D3	20	D	999	DETENTION TIME
D3	21	D	421	HYPOCHLORINATION, POST
D3	22	D	891	CHLORAMINES (POST)
D3	23	C	445	INHIBITOR, ORTHOPHOSPHATE
D3	24	C	445	INHIBITOR, ORTHOPHOSPHATE
D3	25	D	999	DETENTION TIME
D3	26	D	999	DETENTION TIME

(Active Sources)

Source Number	Source Name (Activity Status)	Operational Status	Source Type	Depth	Tested GPM	Rated GPM
S0570004D	INTAKE 4 - ELM FORK TRINITY R / ELM FORK (A)	P	S	N/A	N/A	N/A

Drill Date	Source Summary			
None Available	ELM FORK TRINITY RIVER			
GPS Latitude (decimal)	GPS Longitude (decimal)	GPS Elevation	GPS Date	Seller
32.971489	-96.936523	442	08/16/2005	Not Purchasing

(Inactive/Offline Sources)

SourceNumber	Name	Status	Depth

Code Explanations

Monitoring Type Codes: (GW) GROUNDWATER , (GUP) GROUNDWATER UNDER THE INFLUENCE - PURCHASED , (SWP) SURFACE WATER - PURCHASED , (GU) GROUNDWATER UNDER THE INFLUENCE OF SURFACE WATER , (N) NO SOURCES , (SW) SURFACE WATER

Activity Status Codes: (A) ACTIVE , (D) DELETED/DISSOLVED , (I) INACTIVE , (P) PROPOSED ,

Operational Status Codes: (E) EMERGENCY , (I) INTERIM/PEAK (O) OTHER , (P) PERMANENT , (S) SEASONAL

Source Types: (G) GROUND WATER , (S) SURFACE WATER , (U) GROUND WATER UNDER THE INFLUENCE

- End of Report -

At the time of your query this data was the most current information available from our database, which is

in real time. Every effort was made to retrieve it according to your query. Thank-you for using DWW.

File original copy with
Texas Water Commission
P. O. Box 12311, Capitol Station
Austin, Texas 78711

State of Texas

DRILLERS LOG AND WELL DATA REPORT

For use by TWC only
Well No. 33-89-7B
Located on map
By Date 66
Map no. 5

1) Well Owner: C.W.McCoy (Name) Grand Prairie, Texas (Street or RFD, City, State)

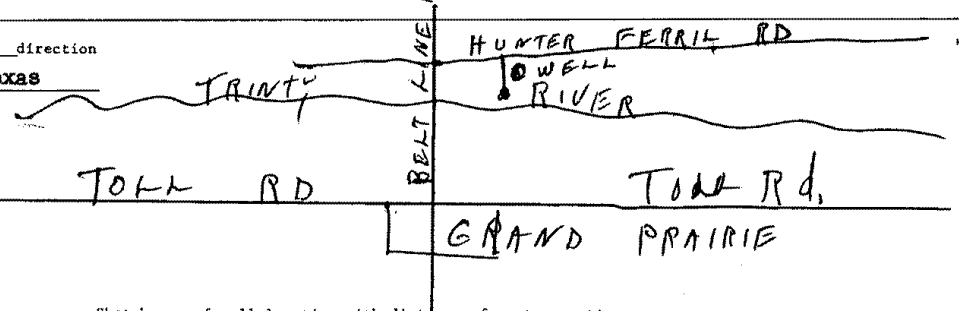
2) Land Owner: Same (Name, Street or RFD, City, State)

3) Intended use: Industrial ☐ ; Municipal ☐ ; Irrigation ☐ ; Other Home

4) Location of well: County Dallas Labor ____ League ____ Abstract No. ____

NW¼ NE¼ SW¼ SE¼ of Section ____ Block No. ____ Survey ____
(Circle as many as are known)

2 miles in N (NE, SW, etc.) direction
from Grand Prairie, Texas (Town)



Sketch map of well location with distances from two section or survey lines, and to landmarks, roads, and creeks.

DRILLERS LOG OF WELL

Method of drilling: Rotary Diameter of hole 6 in. Date drilled 8/12/65

All measurements made from 3 ft. above ground level.

From (ft)	To (ft)	Description and color of formation material	From (ft)	To (ft)	Description and color of formation material
0	5	Surface			
5	14	Sand & gravel			
14	91	Shale			
91	95	Rock			
95	115	Shale			
115	125	Woodbine water sand			
125	297	Shale			
297	324	Woodbine water sand			(Use continuation sheets if necessary)

COMPLETION DATA

COMPLETION

Straight wall ☐
Under reamed ☐
Gravel packed ☐
Open hole ☒
Other ____

CASING

Type: Old ☐ New ☒
Cemented from 0 ft.
to 300 ft.

Diameter (inches)	Setting from (ft)	Setting to (ft)
4½	0	300

SCREEN

Type ____
Perforated ☐ Slotted ☐

Diameter (inches)	Setting from (ft)	Setting to (ft)

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

W. O. Ward (Signature) Ward & Ward Drilling Co. (Company Name) Reg. No. 471

Please attach electric log, chemical analysis, and other pertinent information if available.

If well was tested by your company or if you installed the permanent pump please complete the following:

WATER LEVEL AND PUMP DATA

Static water level ____
ft. below ____

Pumping level

feet	hours	gpm

Pump type Submergible
Designed pumping rate 10 gpm ☒ gph ☐
Type power unit Electric
Horsepower 1½
Depth to bowls, cylinder, jet, etc., 210 ft. below pump base.

Name of contractor testing well or installing permanent pump if other than your company: ____

C-34 (62-4)

STATE OF TEXAS WELL REPORT for Tracking #311821

Owner:	**Lone Star Park**	Owner Well #:	**1**
Address:	**1000 Lone Star Parkway Grand Prairie, TX 75050**	Grid #:	**33-09-7**
Well Location:	**No Data**	Latitude:	**32° 46' 22" N**
		Longitude:	**096° 58' 56" W**
Well County:	**Dallas**	Elevation:	**410 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Industrial**

Drilling Start Date: **1/21/2013** Drilling End Date: **1/28/2013**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**11**	**0**	**410**

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed; Straight Wall**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**130**	**410**	**Gravel**	**1/8 - 1/4**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**20**	**18 concrete**

Seal Method: **Mix and pour**

Sealed By: **KDC**

Distance to Property Line (ft.): **1000 +**

Distance to Septic Field or other concentrated contamination (ft.): **None**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Visual**

Surface Completion: **Surface Sleeve Installed**

Water Level: **135 ft.** below land surface on **2013-01-06** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **315**

Well Tests: **Bailer** **Yield: 135 GPM with 40 ft. drawdown after 6 hours**

	Strata Depth (ft.)	Water Type
Water Quality:	**220**	**clear**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Keller Drilling Company**

Box 852
Keller, TX 76244

Driller Name: **Travis Hazlewood** License Number: **54244**

Comments: **Assistant Luis Cordone**
Assistant George Hazlewood

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

From (ft)	To (ft)	Description
surf	**85**	**black clay**
85	**200**	**gry shale**
200	**210**	**lime**
210	**250**	**sand**
250	**300**	**shale**
300	**380**	**sand**
380	**410**	**shale**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6	**N**	**sch 40 pvc**	**+1 220**
6	**N**	**sch 40 screen**	**220 260 0.020"**
6	**N**	**sch 40**	**260 320**
6	**N**	**sch 40 screen**	**320 380 0.020"**
6	**N**	**sch 40**	**380 400**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

Send original copy by
certified mail to the
Texas Water Development Board
P. O. Box 13087
Austin, Texas 78711

State of Texas

WATER WELL REPORT

1595

For TWDB use only
Well No.
Located on map NO
Received: 73

1) OWNER:
Person having well drilled J. D. Brown (Name) Address 6404 Denton Drive Dallas, Texas (Street or RFD) (City) (State)

Landowner same (Name) Address same (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Dallas, miles in (N.E., S.W., etc.) direction from in Dallas (Town)

Locate by sketch map showing landmarks, roads, creeks, hiway number, etc.*

Denton Dr.

North

(Use reverse side if necessary)

or

Give legal location with distances and directions from adjacent sections or survey lines.

Labor League

Block Survey

Abstract No.

(NW¼ NE¼ SW¼ SE¼) of Section

3) TYPE OF WORK (Check):
New Well X Deepening
Reconditioning Plugging

4) PROPOSED USE (Check):
Domestic X Industrial Municipal
Irrigation Test Well Other

5) TYPE OF WELL (Check):
Rotary Driven Dug
Cable Jetted Bored X

6) WELL LOG:
Diameter of hole 36" in. Depth drilled 40 ft. Depth of completed well 40 ft. Date drilled 11/3/77

All measurements made from 0 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
1	12	Black Dirt
12	20	Dark brown clay
20	32	Light Brown Clay
32	40	Light Brown Sandy Clay

(Use reverse side if necessary)

9) Casing:
Type: Old New X Steel Plastic Other
Cemented from ft. to ft.

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Gage
31½"	2" above G.L.	40'	2½"

10) SCREEN:
Type
Perforated Slotted

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Slot Size

7) COMPLETION (Check):
Straight wall Gravel packed Other
Under reamed Open Hole

8) WATER LEVEL:
Static level ft. below land surface Date
Artesian pressure lbs. per square inch Date
Depth to pump bowls, cylinder, jet, etc., ft. below land surface.

11) WELL TESTS:
Was a pump test made? Yes No X If yes, by whom?
Yield: gpm with ft. drawdown after hrs.
Bailer test gpm with ft. drawdown after hrs.
Artesian flow gpm
Temperature of water

12) WATER QUALITY:
Was a chemical analysis made? Yes No X
Did any strata contain undesirable water? Yes No
Type of water? depth of strata

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME Liberty Drilling Company (Type or Print) Water Well Drillers Registration No. 1142

ADDRESS P.O. Box 648 (Street or RFD) Mesquite, (City) Texas (State)

(Signed) C. A. Singleton (Water Well Driller) Liberty Drilling Company (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

Send original copy by certified return receipt requested mail to: TNRCC, MC 177, P.O. Box 13087, Austin, TX 78711-3087

ATTENTION OWNER: *Confidentiality Privilege Notice on on reverse side of Well Owner's copy (pink)*

State of Texas WELL REPORT

Texas Water Well Drillers Advisory Council
MC 177
P.O. Box 13087
Austin, TX 78711-3087
512-239-0530

1) **OWNER** U.S. Dept. of Veterans Affairs (Name) **ADDRESS** 2200 Mt. Creek Parkway Dallas, TX 75211 (Street or RFD) (City) (State) (Zip)

2) **ADDRESS OF WELL:** County Dallas DFW Cemetery - 2200 Mt. Creek Pkwy. Dallas,TX (Street, RFD or other) (City) (State) (Zip) **GRID #** 33-17-2

3) **TYPE OF WORK (Check):** ☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) **PROPOSED USE (Check):** ☐ Monitor ☐ Environmental Soil Boring ☐ Domestic ☐ Industrial ☒ Irrigation ☐ Injection ☐ Public Supply ☐ De-watering ☐ Testwell
If Public Supply well, were plans submitted to the TNRCC? ☐ Yes ☐ No

5) N

6) **WELL LOG:**
Date Drilling: Started Nov. 19 98 Completed July 19 99

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
14-3/4	Surface	1170
20	1170	1264

7) **DRILLING METHOD (Check):** ☐ Driven ☐ Air Rotary ☒ Mud Rotary ☐ Bored ☐ Air Hammer ☐ Cable Tool ☐ Jetted ☐ Other

From (ft.)	To (ft.)	Description and color of formation material
		See attached

(Use reverse side of Well Owner's copy, if necessary)

8) **Borehole Completion (Check):** ☐ Open Hole ☐ Straight Wall ☒ Underreamed ☒ Gravel Packed ☐ Other
If Gravel Packed give interval ... from 1170 ft. to 1264 ft.

CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casting Screen
16	N	Steel	0	25	
10	N	Steel	+2	1170	
6	N	Steel	1070	1180	
6	N	SSWW Screen	1180	1264	

9) **CEMENTING DATA** [Rule 338.44(1)]
Cemented from 0 ft. to 1170 ft. No. of sacks used 400
ft. to ft. No. of sacks used
Method used Pump down plug
Cemented by Jet Star
Distance to septic system field lines or other concentrated contamination ft.
Method of verification of above distance

FILE ID SEQ # DESC CO CO

10) **SURFACE COMPLETION**
☒ Specified Surface Slab Installed [Rule 338.44(2)(A)]
☐ Specified Steel Sleeve Installed [Rule 338.44(2)(A)]
☐ Pitless Adapter Used [Rule 338.44(3)(b)]
☐ Approved Alternative Procedure Used [Rule 338.71]

EMP # JAN 03 2000 DOCUMENT

11) **WATER LEVEL:**
Static level 433 ft. below land surface Date 3/10/99
Artesian flow gpm. Date

12) **PACKERS:** Type Depth
N/A

13) **TYPE PUMP:** ☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder ☐ Other
Depth to pump bowls, cylinder, jet, etc., 839 ft.

14) **WELL TESTS:**
Type test: ☒ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: 350 gpm with 228 ft. drawdown after 36 hrs.

15) **WATER QUALITY:**
Did you knowingly penetrate any strata which contained undesirable constituents?
☐ Yes ☒ No If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? Depth of strata
Was a chemical analysis made? ☒ Yes ☐ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME J. L. Myers Company (Type or print) **WELL DRILLER'S LICENSE NO.** 1752WPKT

ADDRESS 8325 Forney Road (Street or RFD) Dallas (City) TX (State) 75227 (Zip)

(Signed) # 265 (Licensed Well Driller) **(Signed)** (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

TNRCC-0199 (Rev. 05-21-96) *White - TNRCC Yellow - DRILLER Pink - WELL OWNER*

RECORD OF DEEP WELL AND PUMP

FOR

U. S. DEPT. OF VETERANS AFFAIRS
WELL NO. 1

DRILLED BY : J. L. MYERS COMPANY
8325 FORNEY ROAD
DALLAS, TX 75227

214 388-7407

CONTRACTOR : INCORE, INC. GENERAL CONTRACTORS
P. O. BOX 790189
SAN ANTONIO, TX 78279-0189

210 494-7721

DRILLER'S LOG

OWNER : UNITED STATES DEPARTMENT OF VETERANS AFFAIRS

LOCATION: DALLAS FORT WORTH NATIONAL CEMETERY
MT. CREEK PARKWAY
DALLAS, TX

DATE : NOVEMBER 1998

DRILLER : J. L. MYERS COMPANY - DALLAS

DEPTH OF STRATA From	To	EACH STRATUM Feet	DESCRIPTION
0	235	235	Shale - (Eagle Ford)
235	310	75	Sand, shale broken Woodbine
310	340	30	Shale
340	520	180	Sand with shale streaks
520	565	45	Broken shale and sand
565	640	75	Shale with lime streaks
640	705	65	Limestone, broken
705	800	95	Shale with lime streaks
800	925	125	Limestone and shale streaks
925	1000	75	Shale
1000	1115	115	Limestone with shale streaks
1115	1160	45	Shale
1160	1270	110	Sand with shale breaks (Paluxy)
1270	1340	70	Shale with lime sand streaks

J. L. MYERS COMPANY
8325 FORNEY ROAD
DALLAS, TX 75227

DEVIATION LOG

OWNER : UNITED STATES DEPARTMENT OF VETERANS AFFAIRS

LOCATION: DALLAS FORT WORTH NATIONAL CEMETERY
MT. CREEK PARKWAY
DALLAS, TX

DATE : NOVEMBER 1998

DEPTH (ft)	DEGREE FROM VERTICAL
42	3/4
72	1/2
101	1/2
132	1/2
161	1/4
190	1/2
248	1/2
278	1/2
306	3/4
334	1/2
364	3/4
422	1/2
452	1/2
483	3/4
518	3/4
545	3/4
575	3/4
758	1/2
789	1/2
819	1/2
850	1/2
882	1/2
914	1/2
945	3/4
973	1/4
1006	1/4
1037	1/2
1069	3/4

UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
DALLAS FORT WORTH NATIONAL CEMETERY
DEVIATION LOG CONTINUED

DEPTH(ft)	DEGREE FROM VERTICAL
1100	3/4
1132	1/2
1161	3/4
1191	3/4
1223	3/4
1254	3/4

J. L. MYERS COMPANY
8325 FORNEY ROAD
DALLAS, TX 75227

MATERIAL SETTING

OWNER : UNITED STATES DEPARTMENT OF VETERANS AFFAIRS

LOCATION : DALLAS FORT WORTH NATIONAL CEMETERY
MT. CREEK PARKWAY
DALLAS, TX

DATE : DECEMBER 1998

FROM	TO	AMOUNT	DESCRIPTION
0	25	25	16"OD surface cemented in place
+2	1170	1172	10-3/4"OD 40.5#/ft J-55 casing with centralizer and float collar in 14-3/4" hole. Cemented by Jet Star with 400 sacks Class H plus 8% gel.
1070	1180	110	6-5/8"OD 18.97#/ft T&C blank liner with R&L coupling
1180	1218	38	6-5/8"OD WESCO underbar plus SS wire wrapped pipe base screen. .010" opening
1218	1222	4	6-5/8" blank with centralizer
1222	1264	42	6-5/8" screen
1264	1274	10	6-5/8" blank
1170	1264	94	Underreamed hole. Gravel packed with l6x30 gravel.

J. L.MYERS COMPANY
8325 FORNEY ROAD
DALLAS, TX 75227

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Tim Sulby, Cementer — Name and title of cementer's representative
Jet-Star Co — Cementing Company
Signature

2400 Alabama, Gainesville, TX — Address, City, State, Zip Code
940-665-1316 — Tel.: Area Code Number
12-2-98 — Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Typed or printed name of operator's representative
Title
Signature

Address, City, State, Zip Code
Tel.: Area Code Number
Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form **W-4**, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry** holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer: Fill in shaded areas.
Operator: Fill in other items.

Form W-15
Cementing Report
Rev. 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1. Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
J. L. Myers Company			Dallas

5. Field Name (Wildcat or exactly as shown on RRC records)	6. API No.	7. Drilling Permit No.
	42-	

8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No.
U. S. Dept. of Veterans Affairs			1

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date				12-2-98			
13. •Drilled hole size				14 3/4			
•Est. % wash or hole enlargement				10%			
14. Size of casing (in. O.D.)				10 3/4			
15. Top of liner (ft.)							
16. Setting depth (ft.)				1170			
17. Number of centralizers used							
18. Hrs. waiting on cement before drill-out				48			
1st Slurry	19. API cement used: No. of sacks ▶			400			
	Class ▶			H			
	Additives ▶			890 Gell			
2nd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped: Volume (cu. ft.) ▶			728			
	Height (ft.) ▶			1170			
2nd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶			728			
	Height (ft.) ▶			1170			
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?				Yes			

22. Remarks

OVER ▶

TARRANT COUNTY PUBLIC HEALTH LABORATORY

WATER BACTERIOLOGY

1800 University Dr., Ft. Worth, TX 76107
Lab No. 48010 (817)871-7245

Date and Time Rec'd.
Sample No. 011629

Date Reported

Do Not Mark Above This Line ---Please Print Below with BALLPOINT PEN OR TYPEWRITER:

DFW CEMETARY
NAME OF WATER SYSTEM

WELL DISCHARGE
POINT OF COLLECTION/SAMPLE DESCRIPTION

Water System I.D. No.

SEND RESULTS TO:

J. L. MYERS CO.
NAME

8325 FORNEY RD
STREET ADDRESS (P.O. Box)

DALLAS TX 75227
CITY (Zip Code)

214-388-7407
PHONE #

DALLAS
COUNTY

Date and Time of Collection: Month 7, Day 20, Year 99, TIME 6:50, AM/PM, Collected By HS

TYPE OF SYSTEM
- ☐ Public
- ☐ Dairy
- ☐ Individual
- ☐ Bottled
- ☐ School
- ☐ Vended

IRRIGATION

SAMPLE IS
- ☐ Distribution
- ☐ Raw
- ☑ Construction
- ☐ Repeat
- ☐ Glycol/Sweet/Chill Water
- ☐ Other

WATER SOURCE
- ☐ River
- ☐ Lake
- ☑ Well

Well Depth ~~400~~ 1340
Chlorine Residual

Additional Information:

LABORATORY REPORT (Do no write below) TECH

MMO-MUG Presence/Absence	Membrane Filtration (MF)	MMO-MUG Most Probable Number (MPN)
Coliform Organisms	Coliform Organisms	Coliform Organisms
☑ Not Found	☐ Not Found	☐ Not Found
☐ Found	☐ Found	☐ Found
☐ Total Coliform group	____ Total Coliform/100 ml	Total Coliform: ____ MPN/100ml
☐ *Escherichia coli*	____ *E.coli*/100 ml	*E.coli*: ____ MPN/100ml
☐ Repeat samples required	____ Fecal Coliforms/100 ml	☐ Unsuitable -- See below
☐ Unsuitable -- See below	☐ Unsuitable -- See below	

UNSUITABLE FOR ANALYSIS--PLEASE RESUBMIT
- ☐ Sample too old. Sample not received within 30 hours of collection
- ☐ Date discrepancy or form incomplete (See encircled item)
- ☐ Leaked in transit
- ☐ Quantity too great to permit agitation
- ☐ Excessive chlorine residual: ____ mg/L
- ☐ Quantity insufficient for analysis (100 ml. required)
- ☐ Heavy (silt/bacterial growth) present, possibly compromising test results
- ☐ Sample received on Friday
- ☐ Other ____

H-220 GPC-2190 REV. 6-97

TARRANT COUNTY PUBLIC HEALTH LABORATORY

WATER BACTERIOLOGY

1800 University Dr., Ft. Worth, TX 76107
Lab No. 48010 (817)871-7245

Date and Time Rec'd.
Sample No. 011628

Date Reported 99 11 [illegible]

Do Not Mark Above This Line ---Please Print Below with BALLPOINT PEN OR TYPEWRITER:

DFW CEMETERY SITE
NAME OF WATER SYSTEM

WELL DISCHARGE
POINT OF COLLECTION/SAMPLE DESCRIPTION

Water System I.D. No.

SEND RESULTS TO:

J.L. MYERS CO.
NAME

8325 FORNEY RD
STREET ADDRESS (P.O. Box)

DALLAS TX 75227
CITY (Zip Code)

214 388 7407
PHONE #

DALLAS
COUNTY

Date and Time of Collection: Month 7 Day 19 Year 99 TIME 5:00 AM/PM PM Collected By HS

TYPE OF SYSTEM
- ☐ Public
- ☐ Dairy
- ☐ Individual
- ☐ Bottled
- ☐ School
- ☐ Vended

IRRIGATION

SAMPLE IS
- ☐ Distribution
- ☐ Raw
- ☑ Construction
- ☐ Repeat
- ☐ Glycol/Sweet/Chill Water
- ☐ Other

WATER SOURCE
- ☐ River
- ☐ Lake
- ☑ Well

Well Depth 1945
Chlorine Residual

Additional Information:

LABORATORY REPORT (Do no write below) TECH

MMO-MUG Presence/Absence	Membrane Filtration (MF)	MMO-MUG Most Probable Number (MPN)
Coliform Organisms	Coliform Organisms	Coliform Organisms
☑ Not Found	☐ Not Found	☐ Not Found
☐ Found	☐ Found	☐ Found
☐ Total Coliform group	____ Total Coliform/100 ml	Total Coliform: ____ MPN/100ml
☐ *Escherichia coli*	____ *E.coli*/100 ml	*E.coli*: ____ MPN/100ml
☐ Repeat samples required	____ Fecal Coliforms/100 ml	
☐ Unsuitable -- See below	☐ Unsuitable -- See below	☐ Unsuitable -- See below

UNSUITABLE FOR ANALYSIS--PLEASE RESUBMIT

- ☐ Sample too old. Sample not received within 30 hours of collection
- ☐ Date discrepancy or form incomplete (See encircled item)
- ☐ Leaked in transit
- ☐ Quantity too great to permit agitation
- ☐ Excessive chlorine residual: ____ mg/L
- ☐ Quantity insufficient for analysis (100 ml. required)
- ☐ Heavy (silt/bacterial growth) present, possibly compromising test results
- ☑ Sample received on Friday
- ☐ Other ____

H-220 GPC-2190 REV. 6-97

POPE *Testing* LABORATORIES, Inc.

CONSULTING ANALYTICAL CHEMISTS
AND TESTING ENGINEERS

FOODS, FEEDS, DAIRY PRODS.
WATER, MISCL. ANALYSES
COTTON SEED PRODUCTS
PACKING HOUSE PRODUCTS

P. O. BOX 903
DALLAS, TEXAS 75221
AC 214 742-8491
FAX 214 748-5817

OFFICIAL CHEMISTS
WEIGHERS AND INSPECTORS
NATL. COTTONSEED PRODUCTS ASS'N.
REFEREE CHEMISTS
AMERICAN OIL CHEMISTS SOCIETY

March 17, 1999

Date Rec'd: 3-15-99

To: J L Myers Company
8325 Forney Road
Dallas, TX 75227

Report of Tests on Water

Identification Marks: DFW National Cemetery Well #1 Sampled 3-11-99 after pumping 36 hrs at 350 gpm

Values reported are for minerals in solution

	mg/L
Calcium	2.4
Magnesium	0.4
Iron	0.12
Manganese	0.0
Sodium	285.5
Carbonate	28.8
Bicarbonate	412.4
Sulfate	186.2
Chloride	34.6
Fluoride	0.9
Nitrate	0.0
Phenolphthalein Alkalinity as $CaCO_3$	24.0
Total Alkalinity as $CaCO_3$	386.0
Total Hardness as $CaCO_3$	7.8
Dissolved Residue (TS) Calculated	951.3
Specific Conductance Micromhos/cm	1200
pH	8.4

* * * * * * * * * * *

Respectfully submitted,

POPE TESTING LABORATOIRES, INC.

Leon Hunter

Lab No. 43173

PUMPING TEST

OWNER : UNITED STATES DEPARTMENT OF VETERANS AFFAIRS

LOCATION: DALLAS FORT WORTH NATIONAL CEMETERY
MT. CREEK PARKWAY - DALLAS, TX

DATE : MARCH 1999

4"X3" ORIFICE - 100HP SUBMERSIBLE PUMP SET 775'
STATIC WATER LEVEL 427'

DATE & TIME	ORIFICE	GPM	AIRLINE READING (ft)	WATER LEVEL (ft)	REMARKS
03-10-99					
08:00 AM					Start pump
08:30	70	350	160	615	Cloudy
09:00	70	350	156	619	Clear no sand
09:30	70	350	154	621	
10:00	70	350	154	621	
10:30	70	350	152	623	
11:00	70	350	148	627	
11:30	70	350	145	630	
12 00 PM	70	350	142	633	
12:30	70	350	140	635	
01:00	70	350	138	637	
01:30	70	350	138	637	
02:00	70	350	135	640	
03:00	70	350	135	640	
03:30	70	350	135	640	
04:00	70	350	135	640	
04:30	70	350	135	640	
05:00	70	350	135	640	
05:30	70	350	135	640	
06:00	70	350	135	640	
06:30	70	350	135	640	
07:00	70	350	130	645	
07:30	70	350	130	645	
08:00	70	350	129	646	
09:00	70	350	129	646	
09:30	70	350	129	646	
10:00	70	350	128	647	
10:30	70	350	128	647	

UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
PUMPING TEST CONTINUED - PAGE 2

DATE & TIME	ORIFICE	GPM	AIRLINE READING	WATER LEVEL	REMARKS
03-10-99					
11:00 PM	70	350	128	647	Clear - no sand
11:30	70	350	128	647	
02-11-99					
12:00 AM	70	350	127	648	
12:30	70	350	127	648	
01:00	70	350	126	649	
01:30	70	350	125	650	
02:00	70	350	125	650	
02:30	70	350	124	651	
03:00	70	350	124	651	
03:30	70	350	123	652	
04:00	70	350	123	652	
04:30	70	350	122	653	
05:00	70	350	122	653	
05:30	70	350	121	654	
06:00	70	350	120	655	
06:30	70	350	119	656	
07:00	70	350	118	657	
07:30	70	350	118	657	
08:00	70	350	116	659	
08:30	70	350	116	659	
09:00	70	350	115	660	
09:30	70	350	115	660	
10:00	70	350	115	660	
10:30	70	350	115	660	
11:00	70	350	114	661	
11:30	70	350	114	661	
12:00 PM	70	350	114	661	
12:30	70	350	113	662	
01:00	70	350	113	662	
01:30	70	350	113	662	
02:00	70	350	112	663	
02:30	70	350	112	663	
03:00	70	350	112	663	
03:30	70	350	112	663	
04:00	70	350	110	665	

UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
PUMPING TEST CONTINUED - PAGE 3

DATE & TIME	ORIFICE READING	GPM	AIRLINE READING	WATER LEVEL	REMARKS
03-11-99					
04:30 PM	70	350	110	665	Clear - no sand
05:00	70	350	108	667	
05:30	70	350	108	667	
06:00	70	350	108	667	
06:30	70	350	106	669	
07:00	70	350	104	671	
07:30	70	350	104	671	
08:00	70	350	104	671	
RECOVERY					
08:05			200	575	
08:10			264	511	
08:15			300	475	
08:20			318	457	
08:25			336	439	
08:30			336	439	
08:45			338	437	
09:00			340	435	
09:15			340	435	
09:30			342	433	
09:45			342	433	
10:00			342	433	

J. L. MYERS COMPANY
8325 FORNEY ROAD
DALLAS, TX 75227

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-09-508

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3309508
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.829167
Latitude (degrees minutes seconds)	32° 49' 45" N
Longitude (decimal degrees)	-96.957501
Longitude (degrees minutes seconds)	096° 57' 27" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	218TWMT - Twin Mountains Formation
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	491
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	2170
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	9/9/1971
Drilling Method	Mud (Hydraulic) Rotary
Borehole Completion	Gravel Pack w/Screen

Well Type	Withdrawal of Water
Well Use	Plugged or Destroyed
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	City of Irving
Driller	Layne Texas Co.
Other Data Available	Aquifer Test; Drillers Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0570050B
Groundwater Conservation District Well Number	
Owner Well Number	New #2
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	5/28/1975
Last Update Date	3/4/2020

Remarks	Reported yield 703 GPM in 1972. Aquifer test results in TDWR R-269. Test data and modern results in TWDB files. Geophysical log Q-10. TCEQ reports well is plugged.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
16	Blank	Steel			0	1988
9	Blank	Steel			1887	1999
9	Screen	Stainless Steel			1999	2063
9	Blank	Steel			2063	2066
9	Screen	Stainless Steel			2066	2145
9	Blank	Steel			2145	2170

Well Tests - No Data

Lithology - No Data

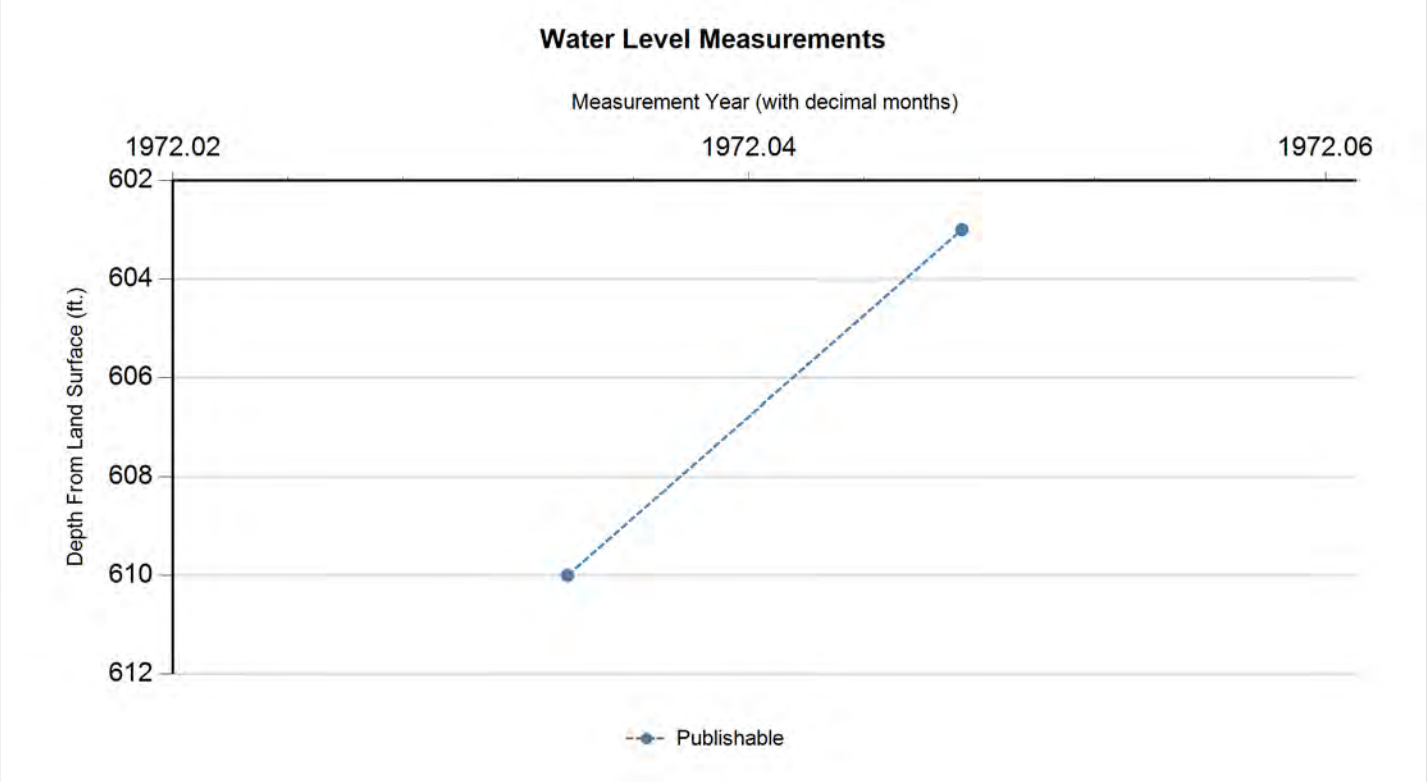
Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	1/14/1972		610		-119	1	Registered Water Well Driller	Air Line		
P	1/19/1972		603	(7.00)	-112	1	Registered Water Well Driller	Air Line		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis

Sample Date: 6/28/1973 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Municipal Water Agency or Public Water Supply Corp

Sampled Aquifer: Twin Mountains Formation

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: raw supply

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		4	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		431	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		516.21	mg/L	
00910	CALCIUM (MG/L)		9	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		4.8	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		101	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.5	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		43	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)		160	ug/L	
00920	MAGNESIUM (MG/L)		5	mg/L	
01055	MANGANESE, TOTAL (UG/L AS MN)	<	50	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		1.5	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.4	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.76		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		25.73		
00932	SODIUM, CALCULATED, PERCENT		95	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		388	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1971	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		315	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1080	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-10-820

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3310820
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.761389
Latitude (degrees minutes seconds)	32° 45' 41" N
Longitude (decimal degrees)	-96.813889
Longitude (degrees minutes seconds)	096° 48' 50" W
Coordinate Source	+/- 5 Seconds
Aquifer Code	218PLXY - Paluxy Sand
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	418
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	1700
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Industrial
Water Level Observation	None
Water Quality Available	No
Pump	Turbine
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Oak Farms Dairy
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-10-827

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3310827
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.762501
Latitude (degrees minutes seconds)	32° 45' 45" N
Longitude (decimal degrees)	-96.814167
Longitude (degrees minutes seconds)	096° 48' 51" W
Coordinate Source	+/- 10 Seconds
Aquifer Code	218TWMT - Twin Mountains Formation
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	400
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	
Well Depth Source	
Drilling Start Date	
Drilling End Date	0/0/1912
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	No
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	City of Dallas
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.

STATE OF TEXAS WELL REPORT for Tracking #87297

Owner:	**INSURANCE DESIGN**	Owner Well #:	**No Data**
Address:	**1319 Irving Heights Irving, TX 75061**	Grid #:	**33-09-2**
Well Location:	**1403 Ehnion Douer Road Irving, TX 75061**	Latitude:	**32° 50' 28" N**
		Longitude:	**096° 56' 30" W**
Well County:	**Dallas**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **5/29/2004** Drilling End Date: **5/29/2004**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**7.875**	**0**	**100**

Drilling Method: **Air Rotary**

Borehole Completion: **Unknown**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**20**	**7**

Seal Method: **Unknown**

Sealed By: **Unknown**

Distance to Property Line (ft.): **50**

Distance to Septic Field or other concentrated contamination (ft.): **150**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Owner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data** on **2004-05-26** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Estimated** **Yield: 0 GPM**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **JIMMY D MILLER**

184 CR 3131
Decatur, TX 76234

Driller Name: **Jimmy D Miller** License Number: **2436**

Comments: **LCS$**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**20**	**Topsoil Yellow Clay Blue Shale**
20	**100**	**Blue Shale**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 33-10-501

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	3310501
County	Dallas
River Basin	Trinity
Groundwater Management Area	8
Regional Water Planning Area	C - Region C
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	32.796111
Latitude (degrees minutes seconds)	32° 47' 46" N
Longitude (decimal degrees)	-96.814167
Longitude (degrees minutes seconds)	096° 48' 51" W
Coordinate Source	+/- 10 Seconds
Aquifer Code	218TWMT - Twin Mountains Formation
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	414
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	2735
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1948
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	No
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Dallas Power and Light
Driller	Layne-Texas Co
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.

Dataset Descriptions and Sources

Dataset	Source	Dataset Description	Update Schedule	Data Requested	Data Obtained	Data Updated	Source Updated
TX HGSD - Texas HGSD	Harris Galveston Subsidence District/Fort Bend Subsidence District	This dataset contains all groundwater well records compiled by Harris Galveston Subsidence District/Fort Bend Subsidence District.	Quarterly	01/02/2024	01/03/2024	01/04/2024	01/03/2024
TX TCEQ HIST - Texas TCEQ Historical	Texas Commission on Environmental Quality	This dataset contains all historical water well records searched from the TCEQ Public Water Well Viewer. Banks Environmental Data plots each well record based on location information found on the log.	As requested	N/A	N/A	N/A	N/A
TX TCEQ PWS - Texas TCEQ PWS	Texas Commission on Environmental Quality	This dataset contains a collection of records from Texas Water Districts, Public Drinking Water Systems and Water and Sewer Utilities who submit information to the TCEQ.	Quarterly	01/04/2024	01/16/2024	02/02/2024	01/16/2024
TX TWDB GW - Texas TWDB Groundwater Database	Texas Water Development Board	This dataset contains water well records contained within Texas Water Development Board Groundwater Database.	Quarterly	02/14/2024	02/14/2024	02/14/2024	02/14/2024
TX TWDB SDR - Texas TWDB Submitted Drillers Reports	Texas Water Development Board	This dataset contains water well records from the Texas Water Development Board Submitted Drillers Reports Database.	Quarterly	02/14/2024	02/14/2024	03/01/2024	02/14/2024
USGS WW - USGS Water Wells	U.S. Geological Survey	This dataset contains groundwater well records from the U.S. Geological Survey.	Semi-annually	11/13/2023	11/13/2023	11/13/2023	11/13/2023

Banks Environmental Data, Inc. - PO Box 12851 - Austin, TX 78711 - 800.531.5255 P - 512.478.1433 F
www.banksenvdata.com

Disclaimer

The Banks Environmental Data Water Well Report was prepared from existing state water well databases and/or additional file data/records research conducted at the state agency and the U.S. Geological Survey. Banks Environmental Data has performed a thorough and diligent search of all groundwater well information provided and recorded. All mapped locations are based on information obtained from the source. Although Banks performs quality assurance and quality control on all research projects, we recognize that any inaccuracies of the records and mapped well locations could possibly be traced to the appropriate regulatory authority or the actual driller. It may be possible that some water well schedules and logs have never been submitted to the regulatory authority by the water driller and, thus, may explain the possible unaccountability of privately drilled wells. It is uncertain if the above listing provides 100% of the existing wells within the area of review. Therefore, Banks Environmental Data cannot fully guarantee the accuracy of the data or well location(s) of those maps and records maintained by the regulatory authorities.

Banks Environmental Data, Inc. - PO Box 12851 - Austin, TX 78711 - 800.531.5255 P - 512.478.1433 F
www.banksenvdata.com

Nucor Harris Rebar
4700 Singleton Boulevard
Dallas, Texas 75212

SOIL-VAPOR INVESTIGATION

JUNE 5, 2023

PREPARED FOR:
Jaylor Building Materials, L.P.
4215 Crescent Drive
Grandbury, TX 76046

PREPARED BY:
The Vertex Companies, LLC
1600 Corporate Court, Suite 100
Irving, Texas 75038

PHONE: 214.499.9234

VERTEX PROJECT NO: 89200

June 5, 2023

Jaylor Building Materials, L.P.
4215 Crescent Drive
Grandbury, TX 76046
Attn: Mr. Jayson Turner

Re: **Soil-Vapor Investigation**
Nucor Harris Rebar
4700 Singleton Boulevard
Dallas, Texas 75212
VERTEX Project Number: 89200

Dear Mr. Turner:

The Vertex Companies, LLC (VERTEX) is pleased to submit this Soil-Vapor Investigation (SVI) report for the above referenced property (the site). The purpose of this SVI was to investigate potential impacts to soil-vapor in the area of the on-site office building from chemicals of concern (COCs) located beneath the site.

The following report details the procedures of the SVI and summarizes the sampling results. The investigation was performed in general accordance with VERTEX proposal P.2166.23, dated June 23, 2023, and executed by Mr. Jayson Turner, representing Jaylor Building Materials, L.P., on June 28, 2023.

Please do not hesitate to contact us at your convenience should you have any questions or comments regarding this report or our recommendations. It has been a pleasure working with you on this project.

Sincerely,

The Vertex Companies, LLC

Tyler D. Martin, MS, PG
Geologist III

Paul S. Rodusky, MS, PG
Division Manager

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Table 1 Summary of Soil-Vapor Analytical Results

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Appendix A Laboratory Analytical Report

SOIL-VAPOR INVESTIGATION

Nucor Harris Rebar
4700 Singleton Boulevard
Dallas, Texas 75212
VERTEX Project No. 88254

1.0 INTRODUCTION

1.1 General Site Information

On June 28, 2023, The Vertex Companies, LLC (VERTEX) was contracted by Jaylor Building Materials, L.P., to conduct a Soil-Vapor Investigation (SVI) of the property located at 4700 Singleton Boulevard in Dallas, Texas (the site). According to the Dallas Central Appraisal District (DCAD), the subject property consists of one 4.7326-acre parcel of land identified as Commercial Account #00719800000020000. The subject property is improved with an approximately 45,449 square-foot, commercial/industrial building (single-story warehouse and two-story office space) constructed in 2000 and currently is occupied by Nucor Harris Rebar, a concrete reinforcing steel product fabrication, installation, and distribution facility. The general site location is shown on Figure 1.

1.2 Purpose

The purpose of this SVI was to investigate the potential impacts to soil-vapor from chemicals of concern (COCs) at the site. The following RECs were identified in VERTEX's March 27, 2023, ESA:

- The documented impacts of chlorinated solvents (specifically tetrachloroethylene and trichloroethylene) to groundwater at the subject property represents a REC.

The following scope of work was developed to investigate identified RECs and are detailed in this report:

- Preparation of a Health & Safety Plan (HASP)- To be used as a guide in the event that regulated, and/or hazardous substances were encountered during the performance of field activities;
- Installation of one soil-vapor point to determine the concentration of COCs, if any.

2.0 FIELD ACTIVITIES

2.1 Utility Locate

Prior to drilling at the site, VERTEX contacted Texas Call Before You Dig public utility location services to mark and identify possible subsurface utilities within the proposed boring location. No public utilities were found to interfere with the proposed boring location.

On May 20, 2023, GPRS conducted ground-penetrating radar (GPR) surveys, using electromagnetic (EM) equipment to clear the proposed soil-vapor location of underground utilities. Results from this survey did not identify subsurface features of concern within the location scanned.

2.2 Advancement of Soil-Vapor Point

On May 21, 2023, VERTEX oversaw the advancement of a total of one temporary soil-vapor point SV-01 to a depth of approximately 5-feet (ft) below ground surface (bgs). The temporary sub-slab screening point was installed by drilling a 1/2-inch hole through the concrete floor slab. The temporary sub-slab screening point was screened using a photoionization detector (PID) with an 11.7 eV lamp for the presence of total ionizable organic volatiles (TOVs). The PID was calibrated with 100 parts per million by volume (ppmv) isobutylene gas standard prior to field screening. PID readings are not considered actual TOV concentrations but are useful indicators of relative TOV concentrations between locations. TOVs were not identified in screened soil-vapor. The sub-slab soil-vapor location is presented on Figure 2.

Following installation of the temporary sub-slab screening point, VERTEX installed a sub-slab soil-vapor sampling probe (SV-01) that was sampled on May 21, 2023. To construct the sub-slab vapor point, a ½-inch borehole was drilled through the concrete, implant-tipped Teflon-lined tubing was inserted into the through-slab borehole, six (6) inches of clean silica sand placed in the hole around the implant and the remaining borehole was sealed with hydrated bentonite that was compacted in two (2) inch lifts to near-surface. Prior to sampling, a minimum of three (3) volumes of air were purged from the downhole plumbing. Following purging, the tube vacuum and bentonite seal were observed for indications of a compromise after which soil-vapor samples were collected in 1-liter laboratory supplied Summa© canister equipped with a regulator set at a flow rate of 200 milliliters per minute. Upon opening the initial summa canister vacuum pressure of the Summa container's vacuum gauge was recorded. The summa canister was sealed with a slight vacuum and prior to sealing, the starting and ending vacuums were noted on the laboratory chain of custody. The soil-vapor sample was submitted to ALS Environmental in Simi Valley, California, for analysis for the presence of volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method TO-15. The soil-vapor sampling location is presented on Figure 2.

3.0 LABORATORY ANALYTICAL RESULTS

3.1 Applicable Regulatory Standards

To provided context to the laboratory analysis results, VERTEX compared soil-vapor analytical results to the following standards:

- Texas Commission on Environmental Quality (TCEQ) Risk Based Exposure Limits (RBELs) for air inhalation ($^{Air}RBEL_{Inh}$), attenuated to sub-slab soil-vapor values, with a Target Cancer Risk (TCR) of 0.00001 and Target Hazard Quotient (THQ) of 1; and
- USEPA residential and commercial target sub-slab and near-source soil-vapor concentrations (C_{sg}) derived from the USEPA Site Specific Residential Vapor Intrusion Level (VISL) Calculator with a TCR of 0.00001 and THQ of 1.

3.2 Soil-Vapor Analytical Results

Based on the analytical results, a total of 38 compounds exceeded their respective laboratory sample detection levels (SDLs). None were detected at a concentration above TCEQ $^{Air}RBEL_{Inh}$ RBELs.

Acrolein (0.90 mg/m^3) was the only COC detected at a concentration exceeding USEPA Residential VISL C_{sg}'s (0.695 µg/m^3) but did not exceed USEPA Commercial VISL C_{sg}'s (2.92 µg/m^3). Acrolein is an organic compound with double bonds and therefore is highly reactive. Because of its reactivity, acrolein has potential health effects and relatively low screening levels. But because of its reactivity, acrolein has a relatively short half-life in the environment. Acrolein and other double-bonded organics are not generally present in soil gas. If they are found in soil gas, it is either an artifact of the sampling process or an artifact of the analysis.

Acrolein is sometimes detected in canisters, especially if the samples contain high levels of certain polar compounds (e.g., acetone, methyl ethyl ketone [MEK]). The longer the canister hold time between sample collection and analysis, the more acrolein that may be detected. The increase in concentration is more pronounced if the relative humidity in the canisters is low, which suggests that active sites on the canister wall are acting as a catalyst (water vapor competes for these active sites, so there will be less catalytic activity with higher relative humidity within the canister). Where acrolein is detected in soil gas samples, it generally should be assumed to be a false positive.

No other analyte(s) were detected above TCEQ Residential and Commercial $^{Air}RBEL_{Inh}$ values or USEPA Residential or Commercial VISL Csg's.

A summary of soil-vapor analytical results is presented on Table 1, and a copy of the laboratory analytical report is included in Appendix A.

4.0 CONCLUSIONS

Based on the findings of this investigation, there were no detections in soil-vapor that are considered indicative of a significant potential sub-slab source of VOCs within the on-site office area.

No further investigations are recommended regarding soil-vapor within on-site structures.

5.0 QUALIFICATIONS

5.1 Limitations and Exceptions

Our professional services have been performed, our findings obtained, and our recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. VERTEX is not responsible for the independent conclusions, opinions or recommendations made by others based on the field exploration and laboratory test data presented in this report.

It must be recognized that environmental investigations are inherently limited in the sense that conclusions are drawn and recommendations developed from information obtained from limited research and site investigation. All subsurface conditions at the site were not field investigated as part of this study and may differ from the conditions implied by the SVI. Additionally, the passage of time may result in a change in the environmental characteristics at this site and surrounding properties. VERTEX does not warrant that there are no toxic or hazardous materials or contamination on the site, nor does VERTEX accept any liability if such are found at some future time, or could have been found if additional studies, beyond the scope of this SVI, were conducted. VERTEX does not warrant against future operations or conditions, nor does VERTEX warrant against operations or conditions present of a type or at a location not investigated.

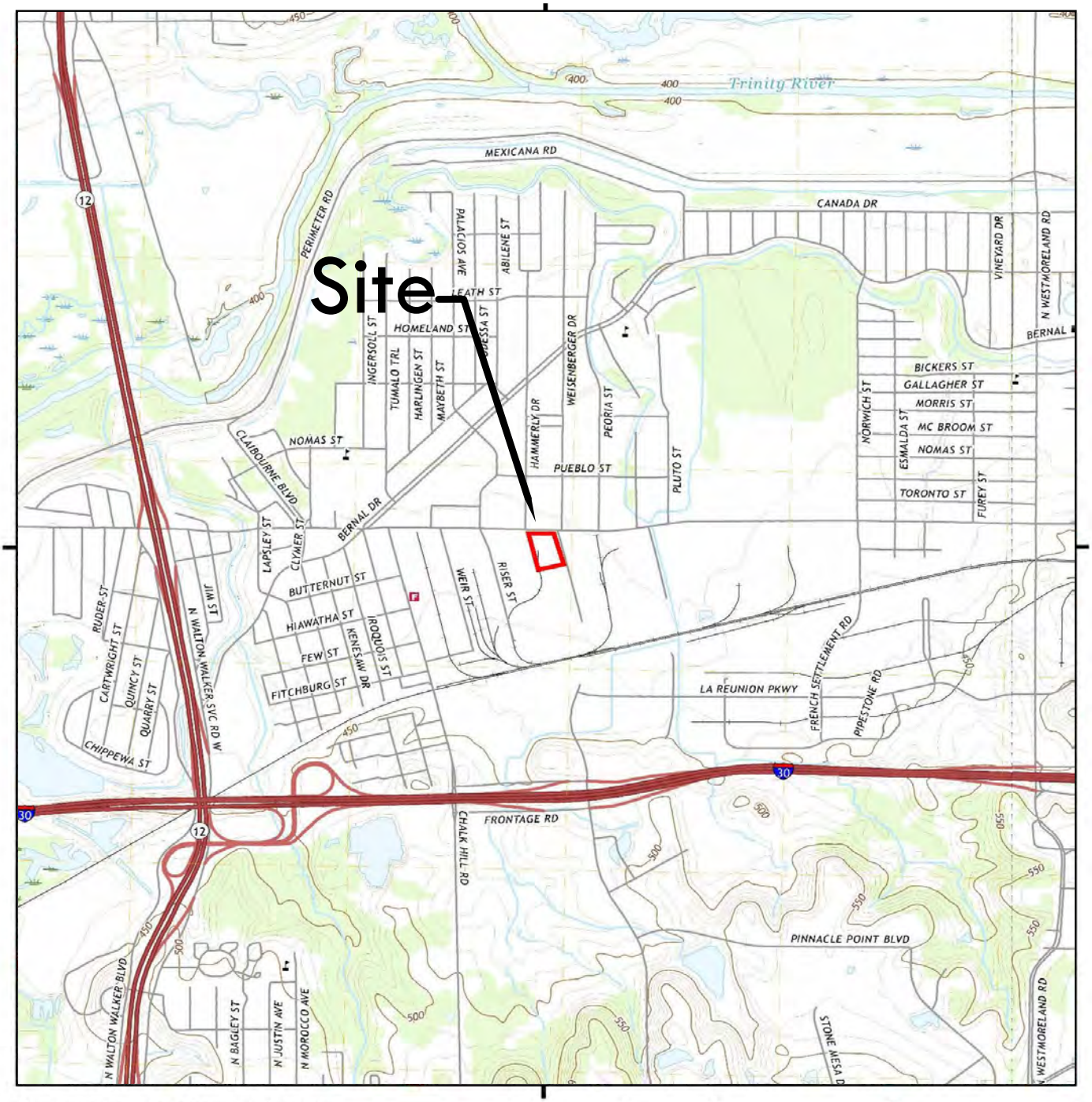
5.2 Special Terms and Conditions

The findings of this SVI are limited and based on the completeness and accuracy of the data and conditions of the site as of the date of the onsite investigation.

5.3 User Reliance

This report is for the exclusive use of Jaylor Building Materials, L.P. No other party shall have the right to rely on any service provided by VERTEX without prior written consent. Use of this report by any other party shall be at such party's sole risk.

FIGURES



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

Notes: USGS Topographic Map, Dated 2019
Irving/Dallas, Texas Quadrangle

FIGURE 1 - SITE LOCUS MAP

NUCOR HARRIS REBAR
4700 SINGLETON BOULEVARD
DALLAS, TEXAS

Date:	6/1/23
Drawn:	HN
Checked:	BJ
Job No.:	89200

FIGURE 1

VERTEX®
1600 CORPORATE CT. STE. 100
IRVING, TEXAS 75038
(T): 214.499.9234
VERTEXENG.COM

NOTES:
-STRUCTURES DEPICTED ARE APPROXIMATE LOCATIONS

LEGEND

- SITE BOUNDARY
- INFERRED GROUNDWATER FLOW DIRECTION
- RAIL SPUR
- T TRANSFORMER
- SOIL-VAPOR LOCATION

SCALE: NOT TO SCALE

REFERENCE: GOOGLE EARTH IMAGERY 2022

FIGURE 2 - SOIL-VAPOR LOCATION PLAN

NUCOR HARRIS REBAR
4700 SINGLETON BOULEVARD
DALLAS, TEXAS 75212

DATE:	6/1/2023
DRAWN BY:	PSR
CHECKED BY:	BJ
VERTEX PROJECT #:	89200

VERTEXENG.COM

VERTEX®
1600 CORPORATE CT, SUITE 100
IRVING TX 75038

TABLES

Table 1. Summary of Subslab Vapor Analytical Results
Nucor Harris Rebar
4700 Singleton Boulevard
Dallas, Texas 75212
VERTEX Project No. 89200

Sample Designation	CAS Number	Units	Target Sub-Slab and Near-source Soil Gas Vapor Concentrations (C_{sg}) TCR=1e-05, THQ=1		TCEQ $^{Air}RBEL_{Inh}$ Adjusted to Sub-Slab Vapor Values TCR=1e-05, THQ=1	SV-1	
Laboratory Sample Designation						P2302335-001	
Sample Date			Residential	Commercial	Residential	5/23/2023	
Volatile Organic Compounds (VOCs) by EPA Compendium Method TO-15							
Dichlorodifluoromethane (CFC 12)	75-71-8	µg/m³	3,480	--	--	1.6	
Ethanol	64-17-5	µg/m³	-	--	--	16	
Acrolein	107-02-8	µg/m³	0.695	2.92	--	0.90	J
Acetone	67-64-1	µg/m³	-	--	--	44	
Trichlorofluoromethane	75-69-4	µg/m³	-	--	--	0.88	
2-Propanol (Isopropyl Alcohol)	67-63-0	µg/m³	6,950	--	--	5.5	
1,1,2-Trichlorotrifluoroethane	76-13-1	µg/m³	174,000	--	--	0.37	J
Carbon Disulfide	75-15-0	µg/m³	24,300	--	--	7.8	
2-Butanone (MEK)	78-93-3	µg/m³	174,000	--	--	4.9	
Ethyl Acetate	141-78-6	µg/m³	2,430	--	--	1	J
Chloroform	67-66-3	µg/m³	40.7	--	37	0.099	J
Hexane	110-54-3	µg/m³	24,300	--	--	0.99	
Benzene	71-43-2	µg/m³	120	--	367	1.4	
Carbon Tetrachloride	56-23-5	µg/m³	156	--	137	0.14	J
Cyclohexane	110-82-7	µg/m³	209,000	--	--	0.95	J
1,4-Dioxane	123-91-1	µg/m³	187	--	163	0.41	J
n-Heptane	142-82-5	µg/m³	13,900	--	--	0.80	
4-Methyl-2-pentanone	108-10-1	µg/m³	104,000	--	--	3.2	
Toluene	108-88-3	µg/m³	174,000	--	--	4.6	
2-Hexanone	591-78-6	µg/m³	1,040	--	--	0.69	J
n-Butyl Acetate	123-86-4	µg/m³	-	--	--	0.52	J
n-Octane	111-65-9	µg/m³	--	--	--	0.76	
Tetrachloroethene	127-18-4	µg/m³	1,390	--	2133	0.38	J
Chlorobenzene	108-90-7	µg/m³	1,740	--	--	0.14	J
Ethylbenzene	100-41-4	µg/m³	374	--	–	2.2	
m,p-Xylenes	179601-23-1	µg/m³	3,480	--	–	1.1	J
Styrene	100-42-5	µg/m³	34,800	--	–	0.52	J
o-Xylene	95-47-6	µg/m³	3,480	--	–	0.51	J
n-Nonane	111-84-2	µg/m³	695	--	–	0.50	J
Cumene	98-82-8	µg/m³	13,900	--	–	0.13	J
alpha-Pinene	80-56-8	µg/m³	--	--	–	1.6	
n-Propylbenzene	103-65-1	µg/m³	34,800	--	–	0.33	J
4-Ethyltoluene	622-96-8	µg/m³	--	--	–	0.17	J
1,3,5-Trimethylbenzene	108-67-8	µg/m³	2,090	--	–	0.17	J
1,2,4-Trimethylbenzene	95-63-6	µg/m³	2,090	--	–	0.52	J
1,4-Dichlorobenzene	106-46-7	µg/m³	85.1	--	–	0.18	J
d-Limonene	5989-27-5	µg/m³	--	--	–	2.3	
Naphthalene	91-20-3	µg/m³	27.5	--	–	0.38	J
All Others	Varies	µg/m³	Varies	Varies	Varies	<SDLs	

Notes
- Units presented in micrograms per cubic meter (µg/m3).
- <SDLs = Analyte not detected above sample detection limits (SDL).
- Bold = Notes a concentration greater than the SDL.
- Target Soil Vapor Concentration (C_{sg})= Target sub-slab and near-source soil vapor concentration [Target Cancer Risk (TCR) = 1E-05 or Target Hazard Quotient (THQ) = 1.0] from US EPA OSWER Commercial and Residential Vapor Intrusion Screening Levels (VISL) - May 2023.
- $^{Air}RBEL_{Inh}$ = TCEQ Risk Based Exposure Limits (RBEL), for residential air inhalation [Target Cancer Risk (TCR) = 1E-05 or Target Hazard Quotient (THQ) = 1.0]; last revised March 6, 2023, and adjusted from ambient air to sub-slab vapor values using a factor of 0.03.
- J = Result is less than the reporting limit but greater than or equal to the adjusted detection limit and the concentration is an approximate value.
- -- = Not Applicable.
- Highlighted indicates the result exceeds the adjusted Residential and/or Commercial TCEQ $^{Air}RBEL_{Inh}$
- Highlighted indicates the result exceeds the Residential and/or Commercial EPA VISL $C_{sg.}$
- Full analytical results, including QA/QC information and data flags, are detailed in the laboratory analytical reports.
- Vapor samples collected by VERTEX and submitted to ALS Environmental for analysis.

** Refer to laboratory analytical report for full list of target analytes.

VERTEX®

APPENDIX A:
Laboratory Analytical Reports

ALS Environmental
2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T +1 805 526 7161

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LABORATORY REPORT

May 26, 2023

Paul Rodusky
The Vertex Companies, Inc.
6012 W. Campus Circle Drive, Suite 220
Irving, TX 75063

RE: 89200

Dear Paul:

Enclosed are the results of the sample submitted to our laboratory on May 24, 2023. For your reference, this analysis has been assigned our service request number P2302335.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

ALS | Environmental

By Sue Anderson at 11:04 am, May 26, 2023

Sue Anderson
Project Manager

ALS Environmental
2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T +1 805 526 7161

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Client: The Vertex Companies, Inc. Service Request No: P2302335
Project: 89200

CASE NARRATIVE

The sample was received intact under chain of custody on May 24, 2023 and was stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the sample at the time of sample receipt.

Volatile Organic Compound Analysis

The sample was analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph/mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The lower control criterion was exceeded for Chlorobenzene in the Laboratory Control Samples (LCS/DLCS) analyzed on May 25, 2023. The error associated with the reduced recovery equates to a potential low bias. However, a Method Reporting Limit (MRL) check standard containing the analyte of concern was analyzed and verified that instrument sensitivity was adequate to detect the analyte at the MRL on the day of analysis. Since the sensitivity was verified the data quality has not been significantly affected. No further corrective action was taken.

The container was cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.4 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

ALS Environmental
2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T +1 805 526 7161

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CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	https://dec.alaska.gov/spar/csp/lab-approval/list-of-approved-labs	17-019
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html	E871020
Louisiana DEQ (NELAP)	https://internet.deq.louisiana.gov/portal/divisions/lelap/accredited-laboratories	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtm	2022028
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	006-999-456
New Jersey DEP (NELAP)	https://dep.nj.gov/dsr/oqa/certified-laboratories/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-011
Pennsylvania DEP	hhttp://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjlabs.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html	T104704413-22-13
Utah DOH (NELAP)	https://uphl.utah.gov/certifications/environmental-laboratory-certification/	CA016272022-14
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: The Vertex Companies, Inc.
Project ID: 89200

Service Request: P2302335

Date Received: 5/24/2023
Time Received: 09:34

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
SV-1	P2302335-001	Air	5/23/2023	11:28	SSC00091	-1.53	3.71	X

Air - Chain of Custody Record & Analytical Service Request

Page 1 of 1

2655 Park Center Drive, Suite A
Simi Valley, California 93065
Phone (805) 526-7161

Due Tues (5/30)

Requested Turnaround Time in Business Days (Surcharges) please circle
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard

ALS Project No. P502335

ALS Contact: Sue Anderson

Company Name & Address (Reporting Information): The Vertex Companies, LLC, 1600 Corporate Ct Ste 100, Irving, TX 75038

Project Name: 88253

Project Number: 88253

Project Manager: Paul Rodusky

P.O. # / Billing Information: accountspayable@vertexeng.com

Phone: 817.848.7471

Fax:

Email Address for Result Reporting: produsky@vertexeng.com | tmartin@vertexeng.com

Sampler (Print & Sign): Tyler Martin

Analysis Method: TO-15

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	TO-15		Comments e.g. Actual Preservative or specific instructions
SV-1	1	5/23/23	1128 am	SSC00091	-	-30	-4	26	X		

Report Tier Levels - please select

Tier I - Results (Default if not specified) _____
Tier II (Results + QC Summaries) _____
Tier III (Results + QC & Calibration Summaries) _____
Tier IV (Data Validation Package) 10% Surcharge _____

EDD required Yes / No
Type: _____ Units: _____

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Project Requirements (MRLs, QAPP)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Tyler Martin	5/23	1215			
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
				5/24/23	0934

Cooler / Blank Temperature ____°C

ALS Environmental
Sample Acceptance Check Form

Client: The Vertex Companies, Inc. Work order: P2302335

Project: 89200

Sample(s) received on: 5/24/23 Date opened: 5/24/23 by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2302335-001.01	6.0 L Silonite Can					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **The Vertex Companies, Inc.**
Client Sample ID: **SV-1** ALS Project ID: P2302335
Client Project ID: **89200** ALS Sample ID: P2302335-001

Test Code: EPA TO-15 Date Collected: 5/23/23
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 5/24/23
Analyst: Simon Cao Date Analyzed: 5/25/23
Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: SSC00091

Initial Pressure (psig): -1.53 Final Pressure (psig): 3.71

Canister Dilution Factor: 1.40

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.74	0.18	ND	0.43	0.11	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.6**	0.74	0.12	**0.33**	0.15	0.025	
74-87-3	Chloromethane	ND	0.73	0.12	ND	0.35	0.058	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.73	0.12	ND	0.10	0.017	
75-01-4	Vinyl Chloride	ND	0.71	0.080	ND	0.28	0.031	
106-99-0	1,3-Butadiene	ND	0.74	0.12	ND	0.34	0.056	
74-83-9	Bromomethane	ND	0.71	0.10	ND	0.18	0.027	
75-00-3	Chloroethane	ND	0.73	0.092	ND	0.28	0.035	
64-17-5	Ethanol	**16**	7.0	0.52	**8.3**	3.7	0.28	
75-05-8	Acetonitrile	ND	1.4	0.18	ND	0.83	0.11	
107-02-8	Acrolein	**0.90**	1.4	0.21	**0.39**	0.61	0.092	**J**
67-64-1	Acetone	**44**	7.4	1.7	**18**	3.1	0.71	
75-69-4	Trichlorofluoromethane (CFC 11)	**0.88**	0.73	0.11	**0.16**	0.13	0.020	
67-63-0	2-Propanol (Isopropyl Alcohol)	**5.5**	1.4	0.31	**2.2**	0.58	0.13	
107-13-1	Acrylonitrile	ND	1.4	0.15	ND	0.66	0.071	
75-35-4	1,1-Dichloroethene	ND	0.76	0.10	ND	0.19	0.026	
75-09-2	Methylene Chloride	ND	0.74	0.21	ND	0.21	0.060	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.74	0.10	ND	0.24	0.032	
76-13-1	Trichlorotrifluoroethane (CFC 113)	**0.37**	0.76	0.11	**0.049**	0.099	0.014	**J**
75-15-0	Carbon Disulfide	**7.8**	1.5	0.22	**2.5**	0.48	0.072	
156-60-5	trans-1,2-Dichloroethene	ND	0.76	0.10	ND	0.19	0.026	
75-34-3	1,1-Dichloroethane	ND	0.76	0.11	ND	0.19	0.027	
1634-04-4	Methyl tert-Butyl Ether	ND	0.76	0.088	ND	0.21	0.024	
108-05-4	Vinyl Acetate	ND	7.0	1.7	ND	2.0	0.48	
78-93-3	2-Butanone (MEK)	**4.9**	1.5	0.15	**1.7**	0.49	0.052	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **The Vertex Companies, Inc.**
Client Sample ID: **SV-1** ALS Project ID: P2302335
Client Project ID: **89200** ALS Sample ID: P2302335-001

Test Code: EPA TO-15 Date Collected: 5/23/23
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 5/24/23
Analyst: Simon Cao Date Analyzed: 5/25/23
Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: SSC00091

Initial Pressure (psig): -1.53 Final Pressure (psig): 3.71

Canister Dilution Factor: 1.40

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.74	0.11	ND	0.19	0.026	
141-78-6	Ethyl Acetate	**1.0**	2.9	0.39	**0.29**	0.82	0.11	**J**
110-54-3	n-Hexane	**0.99**	0.74	0.15	**0.28**	0.21	0.044	
67-66-3	Chloroform	**0.099**	0.74	0.099	**0.020**	0.15	0.020	**J**
109-99-9	Tetrahydrofuran (THF)	ND	1.4	0.094	ND	0.47	0.032	
107-06-2	1,2-Dichloroethane	ND	0.76	0.083	ND	0.19	0.020	
71-55-6	1,1,1-Trichloroethane	ND	0.74	0.092	ND	0.14	0.017	
71-43-2	Benzene	**1.4**	0.76	0.11	**0.45**	0.24	0.034	
56-23-5	Carbon Tetrachloride	**0.14**	0.73	0.10	**0.022**	0.12	0.016	**J**
110-82-7	Cyclohexane	**0.95**	1.5	0.21	**0.28**	0.43	0.061	**J**
78-87-5	1,2-Dichloropropane	ND	0.74	0.092	ND	0.16	0.020	
75-27-4	Bromodichloromethane	ND	0.76	0.11	ND	0.11	0.016	
79-01-6	Trichloroethene	ND	0.74	0.10	ND	0.14	0.019	
123-91-1	1,4-Dioxane	**0.41**	0.74	0.088	**0.11**	0.21	0.024	**J**
80-62-6	Methyl Methacrylate	ND	1.5	0.27	ND	0.38	0.065	
142-82-5	n-Heptane	**0.80**	0.74	0.12	**0.20**	0.18	0.029	
10061-01-5	cis-1,3-Dichloropropene	ND	0.76	0.12	ND	0.17	0.026	
108-10-1	4-Methyl-2-pentanone	**3.2**	1.5	0.10	**0.77**	0.38	0.025	
10061-02-6	trans-1,3-Dichloropropene	ND	0.71	0.15	ND	0.16	0.034	
79-00-5	1,1,2-Trichloroethane	ND	0.74	0.076	ND	0.14	0.014	
108-88-3	Toluene	**4.6**	0.74	0.091	**1.2**	0.20	0.024	
591-78-6	2-Hexanone	**0.69**	1.5	0.092	**0.17**	0.38	0.023	**J**
124-48-1	Dibromochloromethane	ND	0.76	0.098	ND	0.089	0.012	
106-93-4	1,2-Dibromoethane	ND	0.73	0.087	ND	0.095	0.011	
123-86-4	n-Butyl Acetate	**0.52**	1.4	0.10	**0.11**	0.29	0.022	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **The Vertex Companies, Inc.**
Client Sample ID: **SV-1**
Client Project ID: **89200**

ALS Project ID: P2302335
ALS Sample ID: P2302335-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Simon Cao
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: SSC00091

Date Collected: 5/23/23
Date Received: 5/24/23
Date Analyzed: 5/25/23
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.53 Final Pressure (psig): 3.71

Canister Dilution Factor: 1.40

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.76**	0.76	0.17	**0.16**	0.16	0.036	
127-18-4	Tetrachloroethene	**0.38**	0.74	0.097	**0.056**	0.11	0.014	**J**
108-90-7	Chlorobenzene	**0.14**	0.74	0.099	**0.031**	0.16	0.022	**J**
100-41-4	Ethylbenzene	**2.2**	0.74	0.11	**0.51**	0.17	0.024	
179601-23-1	m,p-Xylenes	**1.1**	1.5	0.20	**0.26**	0.35	0.045	**J**
75-25-2	Bromoform	ND	0.76	0.15	ND	0.073	0.015	
100-42-5	Styrene	**0.52**	0.74	0.12	**0.12**	0.17	0.028	**J**
95-47-6	o-Xylene	**0.51**	0.74	0.11	**0.12**	0.17	0.025	**J**
111-84-2	n-Nonane	**0.50**	0.74	0.12	**0.096**	0.14	0.024	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.74	0.10	ND	0.11	0.015	
98-82-8	Cumene	**0.13**	0.76	0.11	**0.026**	0.15	0.022	**J**
80-56-8	alpha-Pinene	**1.6**	1.5	0.11	**0.29**	0.28	0.021	
103-65-1	n-Propylbenzene	**0.33**	0.76	0.11	**0.067**	0.15	0.022	**J**
622-96-8	4-Ethyltoluene	**0.17**	0.77	0.12	**0.035**	0.16	0.024	**J**
108-67-8	1,3,5-Trimethylbenzene	**0.17**	0.74	0.11	**0.035**	0.15	0.022	**J**
95-63-6	1,2,4-Trimethylbenzene	**0.52**	0.74	0.10	**0.11**	0.15	0.021	**J**
100-44-7	Benzyl Chloride	ND	2.9	0.17	ND	0.57	0.032	
541-73-1	1,3-Dichlorobenzene	ND	0.74	0.11	ND	0.12	0.019	
106-46-7	1,4-Dichlorobenzene	**0.18**	0.74	0.11	**0.031**	0.12	0.019	**J**
95-50-1	1,2-Dichlorobenzene	ND	0.76	0.11	ND	0.13	0.018	
5989-27-5	d-Limonene	**2.3**	1.5	0.15	**0.41**	0.28	0.028	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.5	0.14	ND	0.16	0.014	
120-82-1	1,2,4-Trichlorobenzene	ND	1.5	0.18	ND	0.21	0.025	
91-20-3	Naphthalene	**0.38**	0.77	0.18	**0.073**	0.15	0.035	**J**
87-68-3	Hexachlorobutadiene	ND	0.74	0.15	ND	0.070	0.014	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **The Vertex Companies, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P2302335
Client Project ID: **89200** ALS Sample ID: P230525-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Wida Ang Date Analyzed: 5/25/23
Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.53	0.13	ND	0.31	0.076	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.53	0.087	ND	0.11	0.018	
74-87-3	Chloromethane	ND	0.52	0.086	ND	0.25	0.042	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.52	0.084	ND	0.074	0.012	
75-01-4	Vinyl Chloride	ND	0.51	0.057	ND	0.20	0.022	
106-99-0	1,3-Butadiene	ND	0.53	0.088	ND	0.24	0.040	
74-83-9	Bromomethane	ND	0.51	0.074	ND	0.13	0.019	
75-00-3	Chloroethane	ND	0.52	0.066	ND	0.20	0.025	
64-17-5	Ethanol	ND	5.0	0.37	ND	2.7	0.20	
75-05-8	Acetonitrile	ND	1.0	0.13	ND	0.60	0.077	
107-02-8	Acrolein	ND	1.0	0.15	ND	0.44	0.065	
67-64-1	Acetone	ND	5.3	1.2	ND	2.2	0.51	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.52	0.081	ND	0.093	0.014	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.0	0.22	ND	0.42	0.090	
107-13-1	Acrylonitrile	ND	1.0	0.11	ND	0.47	0.051	
75-35-4	1,1-Dichloroethene	ND	0.54	0.074	ND	0.14	0.019	
75-09-2	Methylene Chloride	ND	0.53	0.15	ND	0.15	0.043	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.53	0.072	ND	0.17	0.023	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.54	0.076	ND	0.070	0.0099	
75-15-0	Carbon Disulfide	ND	1.1	0.16	ND	0.34	0.051	
156-60-5	trans-1,2-Dichloroethene	ND	0.54	0.074	ND	0.14	0.019	
75-34-3	1,1-Dichloroethane	ND	0.54	0.078	ND	0.13	0.019	
1634-04-4	Methyl tert-Butyl Ether	ND	0.54	0.063	ND	0.15	0.017	
108-05-4	Vinyl Acetate	ND	5.0	1.2	ND	1.4	0.34	
78-93-3	2-Butanone (MEK)	ND	1.0	0.11	ND	0.35	0.037	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **The Vertex Companies, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P2302335
Client Project ID: **89200** ALS Sample ID: P230525-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Wida Ang Date Analyzed: 5/25/23
Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.53	0.075	ND	0.13	0.019	
141-78-6	Ethyl Acetate	ND	2.1	0.28	ND	0.58	0.078	
110-54-3	n-Hexane	ND	0.53	0.11	ND	0.15	0.031	
67-66-3	Chloroform	ND	0.53	0.071	ND	0.11	0.015	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	0.067	ND	0.34	0.023	
107-06-2	1,2-Dichloroethane	ND	0.54	0.059	ND	0.13	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.53	0.066	ND	0.097	0.012	
71-43-2	Benzene	ND	0.54	0.077	ND	0.17	0.024	
56-23-5	Carbon Tetrachloride	ND	0.52	0.074	ND	0.083	0.012	
110-82-7	Cyclohexane	ND	1.1	0.15	ND	0.31	0.044	
78-87-5	1,2-Dichloropropane	ND	0.53	0.066	ND	0.11	0.014	
75-27-4	Bromodichloromethane	ND	0.54	0.077	ND	0.081	0.011	
79-01-6	Trichloroethene	ND	0.53	0.072	ND	0.099	0.013	
123-91-1	1,4-Dioxane	ND	0.53	0.063	ND	0.15	0.017	
80-62-6	Methyl Methacrylate	ND	1.1	0.19	ND	0.27	0.046	
142-82-5	n-Heptane	ND	0.53	0.085	ND	0.13	0.021	
10061-01-5	cis-1,3-Dichloropropene	ND	0.54	0.083	ND	0.12	0.018	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.073	ND	0.27	0.018	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	0.11	ND	0.11	0.024	
79-00-5	1,1,2-Trichloroethane	ND	0.53	0.054	ND	0.097	0.0099	
108-88-3	Toluene	ND	0.53	0.065	ND	0.14	0.017	
591-78-6	2-Hexanone	ND	1.1	0.066	ND	0.27	0.016	
124-48-1	Dibromochloromethane	ND	0.54	0.070	ND	0.063	0.0082	
106-93-4	1,2-Dibromoethane	ND	0.52	0.062	ND	0.068	0.0081	
123-86-4	n-Butyl Acetate	ND	1.0	0.073	ND	0.21	0.015	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **The Vertex Companies, Inc.**
Client Sample ID: **Method Blank** ALS Project ID: P2302335
Client Project ID: **89200** ALS Sample ID: P230525-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Wida Ang Date Analyzed: 5/25/23
Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.54	0.12	ND	0.12	0.026	
127-18-4	Tetrachloroethene	ND	0.53	0.069	ND	0.078	0.010	
108-90-7	Chlorobenzene	ND	0.53	0.071	ND	0.12	0.015	
100-41-4	Ethylbenzene	ND	0.53	0.075	ND	0.12	0.017	
179601-23-1	m,p-Xylenes	ND	1.1	0.14	ND	0.25	0.032	
75-25-2	Bromoform	ND	0.54	0.11	ND	0.052	0.011	
100-42-5	Styrene	ND	0.53	0.086	ND	0.12	0.020	
95-47-6	o-Xylene	ND	0.53	0.077	ND	0.12	0.018	
111-84-2	n-Nonane	ND	0.53	0.089	ND	0.10	0.017	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.53	0.074	ND	0.077	0.011	
98-82-8	Cumene	ND	0.54	0.077	ND	0.11	0.016	
80-56-8	alpha-Pinene	ND	1.1	0.082	ND	0.20	0.015	
103-65-1	n-Propylbenzene	ND	0.54	0.077	ND	0.11	0.016	
622-96-8	4-Ethyltoluene	ND	0.55	0.085	ND	0.11	0.017	
108-67-8	1,3,5-Trimethylbenzene	ND	0.53	0.077	ND	0.11	0.016	
95-63-6	1,2,4-Trimethylbenzene	ND	0.53	0.074	ND	0.11	0.015	
100-44-7	Benzyl Chloride	ND	2.1	0.12	ND	0.41	0.023	
541-73-1	1,3-Dichlorobenzene	ND	0.53	0.080	ND	0.088	0.013	
106-46-7	1,4-Dichlorobenzene	ND	0.53	0.082	ND	0.088	0.014	
95-50-1	1,2-Dichlorobenzene	ND	0.54	0.079	ND	0.090	0.013	
5989-27-5	d-Limonene	ND	1.1	0.11	ND	0.20	0.020	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.10	ND	0.11	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.13	ND	0.15	0.018	
91-20-3	Naphthalene	ND	0.55	0.13	ND	0.10	0.025	
87-68-3	Hexachlorobutadiene	ND	0.53	0.11	ND	0.050	0.010	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **The Vertex Companies, Inc.**
Client Project ID: **89200** ALS Project ID: P2302335

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date(s) Collected: 5/23/23
Analyst: Wida Ang Date(s) Received: 5/24/23
Sample Type: 6.0 L Silonite Canister(s) Date(s) Analyzed: 5/25/23
Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
Method Blank	P230525-MB	**111**	**90**	**94**	70-130	
Lab Control Sample	P230525-LCS	**112**	**87**	**96**	70-130	
Duplicate Lab Control Sample	P230525-DLCS	**110**	**87**	**96**	70-130	
SV-1	P2302335-001	**111**	**89**	**94**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Client: **The Vertex Companies, Inc.**
Client Sample ID: **Duplicate Lab Control Sample**
Client Project ID: **89200**

ALS Project ID: P2302335
ALS Sample ID: P230525-DLCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/25/23
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount LCS / DLCS µg/m³	Result LCS µg/m³	Result DLCS µg/m³	% Recovery LCS	% Recovery DLCS	ALS Acceptance Limits	RPD	RPD Limit	Data Qualifier
115-07-1	Propene	212	187	177	**88**	**83**	56-128	6	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	212	181	174	**85**	**82**	71-112	4	25	
74-87-3	Chloromethane	210	169	160	**80**	**76**	53-126	5	25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	214	173	169	**81**	**79**	62-121	3	25	
75-01-4	Vinyl Chloride	210	183	180	**87**	**86**	63-123	1	25	
106-99-0	1,3-Butadiene	210	192	191	**91**	**91**	63-135	0	25	
74-83-9	Bromomethane	210	169	166	**80**	**79**	71-112	1	25	
75-00-3	Chloroethane	212	175	174	**83**	**82**	66-117	1	25	
64-17-5	Ethanol	1,100	834	835	**76**	**76**	57-117	0	25	
75-05-8	Acetonitrile	214	168	169	**79**	**79**	59-131	0	25	
107-02-8	Acrolein	440	366	369	**83**	**84**	71-123	1	25	
67-64-1	Acetone	1,060	800	801	**75**	**76**	60-117	1	25	
75-69-4	Trichlorofluoromethane (CFC 11)	210	178	174	**85**	**83**	71-114	2	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	414	376	373	**91**	**90**	61-124	1	25	
107-13-1	Acrylonitrile	418	339	340	**81**	**81**	65-130	0	25	
75-35-4	1,1-Dichloroethene	204	173	172	**85**	**84**	74-114	1	25	
75-09-2	Methylene Chloride	204	157	156	**77**	**76**	75-112	1	25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	212	157	157	**74**	**74**	57-127	0	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	210	174	172	**83**	**82**	73-114	1	25	
75-15-0	Carbon Disulfide	430	348	346	**81**	**80**	70-113	1	25	
156-60-5	trans-1,2-Dichloroethene	216	191	191	**88**	**88**	76-119	0	25	
75-34-3	1,1-Dichloroethane	216	176	177	**81**	**82**	70-114	1	25	
1634-04-4	Methyl tert-Butyl Ether	216	185	182	**86**	**84**	72-118	2	25	
108-05-4	Vinyl Acetate	1,100	1220	1220	**111**	**111**	56-137	0	25	
78-93-3	2-Butanone (MEK)	414	345	344	**83**	**83**	74-121	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Client: **The Vertex Companies, Inc.**
Client Sample ID: **Duplicate Lab Control Sample** ALS Project ID: P2302335
Client Project ID: **89200** ALS Sample ID: P230525-DLCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Wida Ang Date Analyzed: 5/25/23
Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount LCS / DLCS µg/m³	Result LCS µg/m³	Result DLCS µg/m³	% Recovery LCS	% Recovery DLCS	ALS Acceptance Limits	RPD	RPD Limit	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	214	181	180	**85**	**84**	73-117	1	25	
141-78-6	Ethyl Acetate	398	315	316	**79**	**79**	59-161	0	25	
110-54-3	n-Hexane	212	173	173	**82**	**82**	55-130	0	25	
67-66-3	Chloroform	216	176	174	**81**	**81**	71-114	0	25	
109-99-9	Tetrahydrofuran (THF)	402	327	328	**81**	**82**	73-114	1	25	
107-06-2	1,2-Dichloroethane	204	195	193	**96**	**95**	71-119	1	25	
71-55-6	1,1,1-Trichloroethane	210	183	181	**87**	**86**	73-119	1	25	
71-43-2	Benzene	204	172	173	**84**	**85**	72-113	1	25	
56-23-5	Carbon Tetrachloride	210	195	192	**93**	**91**	67-123	2	25	
110-82-7	Cyclohexane	426	325	327	**76**	**77**	70-119	1	25	
78-87-5	1,2-Dichloropropane	214	169	171	**79**	**80**	70-118	1	25	
75-27-4	Bromodichloromethane	216	189	189	**88**	**88**	74-119	0	25	
79-01-6	Trichloroethene	212	166	167	**78**	**79**	74-115	1	25	
123-91-1	1,4-Dioxane	212	190	189	**90**	**89**	77-124	1	25	
80-62-6	Methyl Methacrylate	428	400	406	**93**	**95**	78-126	2	25	
142-82-5	n-Heptane	214	172	174	**80**	**81**	70-119	1	25	
10061-01-5	cis-1,3-Dichloropropene	212	214	215	**101**	**101**	81-126	0	25	
108-10-1	4-Methyl-2-pentanone	426	400	405	**94**	**95**	73-129	1	25	
10061-02-6	trans-1,3-Dichloropropene	196	197	197	**101**	**101**	80-127	0	25	
79-00-5	1,1,2-Trichloroethane	216	180	181	**83**	**84**	78-117	1	25	
108-88-3	Toluene	214	151	152	**71**	**71**	70-118	0	25	
591-78-6	2-Hexanone	426	386	388	**91**	**91**	74-132	0	25	
124-48-1	Dibromochloromethane	214	166	164	**78**	**77**	69-137	1	25	
106-93-4	1,2-Dibromoethane	204	158	159	**77**	**78**	76-128	1	25	
123-86-4	n-Butyl Acetate	424	392	394	**92**	**93**	75-134	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Client: **The Vertex Companies, Inc.**
Client Sample ID: **Duplicate Lab Control Sample** ALS Project ID: P2302335
Client Project ID: **89200** ALS Sample ID: P230525-DLCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Wida Ang Date Analyzed: 5/25/23
Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount LCS / DLCS µg/m³	Result LCS µg/m³	Result DLCS µg/m³	% Recovery LCS	% Recovery DLCS	ALS Acceptance Limits	RPD	RPD Limit	Data Qualifier
111-65-9	n-Octane	212	155	157	**73**	**74**	68-120	1	25	
127-18-4	Tetrachloroethene	214	154	152	**72**	**71**	63-130	1	25	
108-90-7	Chlorobenzene	216	150	149	**69**	**69**	70-118	0	25	**L**
100-41-4	Ethylbenzene	218	157	157	**72**	**72**	71-123	0	25	
179601-23-1	m,p-Xylenes	430	318	319	**74**	**74**	67-127	0	25	
75-25-2	Bromoform	218	187	185	**86**	**85**	65-149	1	25	
100-42-5	Styrene	214	168	170	**79**	**79**	76-132	0	25	
95-47-6	o-Xylene	216	157	157	**73**	**73**	69-124	0	25	
111-84-2	n-Nonane	214	166	167	**78**	**78**	64-127	0	25	
79-34-5	1,1,2,2-Tetrachloroethane	216	157	158	**73**	**73**	69-128	0	25	
98-82-8	Cumene	212	154	153	**73**	**72**	69-125	1	25	
80-56-8	alpha-Pinene	216	171	170	**79**	**79**	68-129	0	25	
103-65-1	n-Propylbenzene	212	156	156	**74**	**74**	70-127	0	25	
622-96-8	4-Ethyltoluene	218	162	161	**74**	**74**	69-127	0	25	
108-67-8	1,3,5-Trimethylbenzene	216	158	157	**73**	**73**	66-129	0	25	
95-63-6	1,2,4-Trimethylbenzene	212	160	159	**75**	**75**	63-142	0	25	
100-44-7	Benzyl Chloride	428	451	454	**105**	**106**	73-145	0.9	25	
541-73-1	1,3-Dichlorobenzene	214	160	159	**75**	**74**	67-136	1	25	
106-46-7	1,4-Dichlorobenzene	214	161	160	**75**	**75**	63-134	0	25	
95-50-1	1,2-Dichlorobenzene	212	156	155	**74**	**73**	64-139	1	25	
5989-27-5	d-Limonene	208	169	171	**81**	**82**	63-137	1	25	
96-12-8	1,2-Dibromo-3-chloropropane	416	351	348	**84**	**84**	72-145	0	25	
120-82-1	1,2,4-Trichlorobenzene	440	361	361	**82**	**82**	62-154	0	25	
91-20-3	Naphthalene	220	205	207	**93**	**94**	62-156	1	25	
87-68-3	Hexachlorobutadiene	218	162	160	**74**	**73**	55-142	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.
L = Laboratory control sample recovery outside the specified limits, results may be biased low.