

Dry Comal Creek Hike and Bike Trail Conceptual Design

City of New Braunfels

PROPOSED BOND PROGRAM 2019
MOVING FORWARD TOGETHER

FORD POWELL &CARSON
Architects & Planners, Inc.

Architecture
Planning
Interior Design
Preservation

1138 E. Commerce Street
San Antonio, TX 78205
210.226.1246 I 210.226.6482
fpcarch.com

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1.0 Executive Summary



1.1 Introduction

At the direction of the City of New Braunfels (CoNB), the design team has been asked to develop a conceptual design for a hike and bike trail along a 0.75 mile segment of Dry Comal Creek. The scope of the work begins at Landa Park and extends southwest to Walnut Ave. This comprises Phase I of the hike and bike trail and will set the standards for further development of the trail along the Dry Comal Creek.

This report provides a basis for a construction budget. A cost estimate for the conceptual design is included in this submittal. If approved by CoNB City Council, the project will be voted on by the citizens of New Braunfels in the May 2019 Bond Election.

1.2 Design Team

Architectural
Ford, Powell & Carson Architects and Planners, Inc.

Civil
Pape-Dawson Engineers, Inc.

Environmental Graphics
TBG Partners

Landscape
TBG Partners

Cost Estimating
Project Cost Resources, Inc.

Archeological & Environmental
Raba Kistner

1.3 Site Description

The site for Phase 1 stretches along the Dry Comal Creek from Landa Street to N. Walnut Avenue and is approximately 0.75 miles in length. It is within walking distance of downtown New Braunfels. The Dry Comal Creek is fed by springs and terminates at the Comal River just north of the project site. The north bank is flanked by the Town Creek development which has created an increase of storm water flow into the creek basin. A decomposed granite trail runs on the north side of the creek and extends from Walnut Ave to the Knights of Columbus property line. Private residences flank the creek to the southern bank between N. Walnut Avenue and N. Santa Clara Avenue. A small single-car bridge over the creek is located at N. Guenther Avenue and connects to an older farmstead that the Town Creek development will eventually expand into. Further north and just before Landa Street is a Union Pacific Railroad bridge.

The tree canopy rises about 60 ft high and is dense with native mature oaks, cypress, pecan, among others.

Other invasive species are also present, including bamboo.

The creek attracts local residents, bird watchers and animal wildlife. Animals present along the creek include deer, nutria, and turtles.

2.0 Applicable Codes & Standards



2.1 Applicable Codes

Building Code	International Building Code 2015
Structural Code	International Buidling Code 2015
Plumbing Code	International Plumbing Code 2015

Accessibility Codes

2012 Texas Accessibility Standards, Elimination of Architectural Barriers, Texas Government Code Chapter 469

2.2 Code and Regulatory Analysis

206 Accessible Routes

- **206.1 General.** Accessible routes shall be provided in accordance with 206 and shall comply with Chapter 4.
- **206.2 Where Required.** Accessible routes shall be provided where required by 206.2.
- **206.2.1 Site Arrival Points.** At least one accessible route shall be provided within the site from accessible parking spaces and accessible passenger loading zones; public streets and sidewalks; and public transportation stops to the accessible building or facility entrance they serve.
- **206.2.2 Within a Site.** At least one accessible route shall connect accessible buildings, accessible

211 Drinking Fountains (Future Phases)

- **211.1 General.** Where drinking fountains are provided on an exterior site, on a floor, or within a secured area they shall be provided in accordance with 211.

- **211.2 Minimum Number.** No fewer than two drinking fountains shall be provided. One drinking fountain shall comply with 602.1 through 602.6 and one drinking fountain shall comply with 602.7.

  EXCEPTION: Where a single drinking fountain complies with 602.1 through 602.6 and 602.7, it shall be permitted to be substituted for two separate drinking fountains.

- **211.3 More Than Minimum Number.** Where more than the minimum number of drinking fountains specified in 211.2 are provided, 50 percent of the total number of drinking fountains provided shall comply with 602.1 through 602.6, and 50 percent of the total number of drinking fountains provided shall comply with 602.7.

  EXCEPTION: Where 50 percent of the drinking fountains yields a fraction, 50 percent shall be permitted to be rounded up or down provided that the total number of drinking fountains complying with 211 equals 100 percent of drinking fountains.

302 Floor or Ground Surfaces

- **302.1 General.** Floor and ground surfaces shall be stable, firm, and slip resistant and shall comply with 302

  Advisory 302.1 General. A stable surface is one that remains unchanged by contaminants

or applied force, so that when the contaminant or force is removed, the surface returns to its original condition. A firm surface resists deformation by either indentations or particles moving on its surface. A slip-resistant surface provides sufficient frictional counterforce to the forces exerted in walking to permit safe ambulation.

303 Changes in Level

- **303.1 General.** Where changes in level are permitted in floor or ground surfaces, they shall comply with 303.
- **303.2 Vertical.** Changes in level of 1/4 inch (6.4 mm) high maximum shall be permitted to be vertical.
- **303.3 Beveled.** Changes in level between 1/4 inch (6.4 mm) high minimum and 1/2 inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.
- **303.4 Ramps.** Changes in level greater than 1/2 inch (13 mm) high shall be ramped, and shall comply with 405 or 406.

307 Protruding Objects

- **307.1 General.** Protruding objects shall comply with 307.
- **307.2 Protrusion Limits.** Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path.

  EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (115 mm) maximum.
- **307.3 Post-Mounted Objects.** Free-standing objects mounted on posts or pylons shall overhang circulation paths 12 inches (305 mm) maximum when located 27 inches (685 mm) minimum and 80 inches (2030 mm) maximum above the finish floor or ground. Where a sign or other obstruction is mounted between posts or pylons and the clear distance between the posts or pylons is greater than 12 inches (305 mm), the lowest edge of such sign or obstruction shall be 27 inches (685 mm) maximum or 80 inches (2030 mm) minimum above the finish floor or ground.

  EXCEPTION: The sloping portions of handrails serving stairs and ramps shall not be required to comply with 307.3.
- **307.4 Vertical Clearance.** Vertical clearance shall be 80 inches (2030 mm) high minimum. Guardrails or other barriers shall be provided where the vertical clearance is less than 80 inches (2030 mm) high. The leading edge of such guardrail or barrier shall be located 27 inches (685 mm) maximum above the finish floor or ground.
- **307.5 Required Clear Width.** Protruding objects shall not reduce the clear width required for accessible routes.

309 Operable Parts (Relates to drinking fountains)

- **309.1 General.** Operable parts shall comply with 309.
- **309.2 Clear Floor Space.** A clear floor or ground space complying with 305 shall be provided.
- **309.3 Height.** Operable parts shall be placed within one or more of the reach ranges specified in 308.

- **309.4 Operation.** Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds (22.2 N) maximum.

402 Accessible Routes

- **402.1 General.** Accessible routes shall comply with 402.
- **402.2 Components**. Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps excluding the flared sides. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

  Advisory 402.2 Components. Walking surfaces must have running slopes not steeper than 1:20, see 403.3. Other components of accessible routes, such as ramps (405) and curb ramps (406), are permitted to be more steeply sloped.

403 Walking Surfaces

- **403.1 General.** Walking surfaces that are a part of an accessible route shall comply with 403.
- **403.2 Floor or Ground Surface.** Floor or ground surfaces shall comply with 302.
- **403.3 Slope.** The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.
- **403.4 Changes in Level.** Changes in level shall comply with 303.
- **403.5 Clearances.** Walking surfaces shall provide clearances complying with 403.5.
- **403.5.1 Clear Width.** Except as provided in 403.5.2 and 403.5.3, the clear width of walking surfaces shall be 36 inches (915 mm) minimum.
- **403.5.2 Clear Width at Turn.** Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1220 mm) wide, clear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum leaving the turn.

  EXCEPTION: Where the clear width at the turn is 60 inches (1525 mm) minimum compliance with 403.5.2 shall not be required.

- **403.5.3 Passing Spaces.** An accessible route with a clear width less than 60 inches (1525 mm) shall provide passing spaces at intervals of 200 feet (61 m) maximum. Passing spaces shall be either: a space 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum; or, an intersection of two walking surfaces providing a T-shaped space complying with 304.3.2 where the base and arms of the T-shaped space extend 48 inches (1220 mm) minimum beyond the intersection.
- **403.6 Handrails.** Where handrails are provided along walking surfaces with running slopes not steeper than 1:20 they shall comply with 505.

405 Ramps

- **405.1 General.** Ramps on accessible routes shall comply with 405.
- **405.2 Slope.** Ramp runs shall have a running slope not steeper than 1:12.

Advisory 405.2 Slope. To accommodate the widest range of users, provide ramps with the least possible running slope and, wherever possible, accompany ramps with stairs for use by those individuals for whom distance presents a greater barrier than steps, e.g., people with heart disease or limited stamina.

- **405.3 Cross Slope.** Cross slope of ramp runs shall not be steeper than 1:48.
- **405.4 Floor or Ground Surfaces.** Floor or ground surfaces of ramp runs shall comply with 302.Changes in level other than the running slope and cross slope are not permitted on ramp runs.
- **405.5 Clear Width.** The clear width of a ramp run and, where handrails are provided, the clear width between handrails shall be 36 inches (915 mm) minimum.
- **405.6 Rise.** The rise for any ramp run shall be 30 inches (760 mm) maximum.
- **405.7 Landings.** Ramps shall have landings at the top and the bottom of each ramp run. Landings shall comply with 405.7.

  Advisory 405.7 Landings. Ramps that do not have level landings at changes in direction can create a compound slope that will not meet the requirements of this document. Circular or curved ramps continually change direction. Curvilinear ramps with small radii also can create compound cross slopes and cannot, by their nature, meet the requirements for accessible routes. A level landing is needed at the accessible door to permit maneuvering and simultaneously door operation

- **405.7.1 Slope**. Landings shall comply with 302. Changes in level are not permitted.

  EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

- **405.7.2 Width.** The landing clear width shall be at least as wide as the widest ramp run leading to the landing.
- **405.7.3 Length.** The landing clear length shall be 60 inches (1525 mm) long minimum.
- **405.7.4 Change in Direction.** Ramps that change direction between runs at landings shall have a clear landing 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum.
- **405.8 Handrails.** Ramp runs with a rise greater than 6 inches (150 mm) shall have handrails complying with 505.
- **405.9 Edge Protection.** Edge protection complying with 405.9.1 or 405.9.2 shall be provided on each side of ramp runs and at each side of ramp landings.

  EXCEPTIONS:

  1. Edge protection shall not be required on ramps that are not required to have handrails and have sides complying with 406.3.
  2. Edge protection shall not be required on the sides of ramp landings serving an adjoining ramp run or stairway.
  3. Edge protection shall not be required on the sides of ramp landings having a vertical drop-off of ½ inch (13 mm) maximum within 10 inches (255 mm) horizontally of the minimum landing area specified in 405.7.

- **405.9.1 Extended Floor or Ground Surface.** The floor or ground surface of the ramp run or landing shall extend 12 inches (305 mm) minimum beyond the inside face of a handrail complying with 505.

  Advisory 405.9.1 Extended Floor or Ground Surface. The extended surface prevents wheelchair casters and crutch tips from slipping off the ramp surface.

- **405.9.2 Curb or Barrier.** A curb or barrier shall be provided that prevents the passage of a 4 inch (100 mm) diameter sphere, where any portion of the sphere is within 4 inches (100 mm) of the finish floor or ground surface

- **405.10 Wet Conditions.** Landings subject to wet conditions shall be designed to prevent the accumulation of water

504 Stairways

- **504.1 General.** Stairs shall comply with 504.

- **504.2 Treads and Risers.** All steps on a flight of stairs shall have uniform riser heights and uniform tread depths. Risers shall be 4 inches (100 mm) high minimum and 7 inches (180 mm) high maximum. Treads shall be 11 inches (280 mm) deep minimum.

- **504.3 Open Risers.** Open risers are not permitted.

- **504.4 Tread Surface.** Stair treads shall comply with 302. Changes in level are not permitted.

  EXCEPTION: Treads shall be permitted to have a slope not steeper than 1:48.

  Advisory 504.4 Tread Surface. Consider providing visual contrast on tread nosing's, or at the leading edges of treads without nosing's, so that stair treads are more visible for people with low vision.

- **504.5 Nosing's.** The radius of curvature at the leading edge of the tread shall be 1/2 inch (13 mm) maximum. Nosing's that project beyond risers shall have the underside of the leading edge curved or beveled. Risers shall be permitted to slope under the tread at an angle of 30 degrees maximum from vertical. The permitted projection of the nosing shall extend 1 1/2 inches (38 mm) maximum over the tread below

- **504.6 Handrails.** Stairs shall have handrails complying with 505.

- **504.7 Wet Conditions.** Stair treads and landings subject to wet conditions shall be designed to prevent the accumulation of water.

505 Handrails

- **505.1 General.** Handrails provided along walking surfaces complying with 403, required at ramps complying with 405, and required at stairs complying with 504 shall comply with 505.

  Advisory 505.1 General. Handrails are required on ramp runs with a rise greater than 6 inches (150 mm) (see 405.8) and on certain stairways (see 504). Handrails are not required on walking surfaces with running slopes less than 1:20. However, handrails are required to comply with 505 when they are provided on walking surfaces with running slopes less than 1:20 (see 403.6). Sections 505.2, 505.3, and 505.10 do not apply to handrails provided on walking surfaces with running slopes less than 1:20 as these sections only reference requirements for ramps and stairs.

- **505.2 Where Required.** Handrails shall be provided on both sides of stairs and ramps.

- **505.3 Continuity.** Handrails shall be continuous within the full length of each stair flight or ramp run. Inside handrails on switchback or dogleg stairs and ramps shall be continuous between flights or runs.

  - **505.4 Height.** Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces.
  - **Advisory 505.4 Height.** The requirements for stair and ramp handrails in this document are for adults. When children are the principal users in a building or facility (e.g., elementary schools), a second set of handrails at an appropriate height can assist them and aid in preventing accidents. A maximum height of 28 inches (710 mm) measured to the top of the gripping surface from the ramp surface or stair nosing is recommended for handrails designed for children. Sufficient vertical clearance between upper and lower handrails, 9 inches (230 mm) minimum, should be provided to help prevent entrapment.
  - **505.5 Clearance.** Clearance between handrail gripping surfaces and adjacent surfaces shall be 1 ½ inches (38 mm) minimum.
  - **505.6 Gripping Surface.** Handrail gripping surfaces shall be continuous along their length and shall not be obstructed along their tops or sides. The bottoms of handrail gripping surfaces shall not be obstructed for more than 20 percent of their length. Where provided, horizontal projections shall occur 1 1/2 inches (38 mm) minimum below the bottom of the handrail gripping surface.
    - **EXCEPTIONS:**
      1. Where handrails are provided along walking surfaces with slopes not steeper than 1:20, the bottoms of handrail gripping surfaces shall be permitted to be obstructed along their entire length where they are integral to crash rails or bumper guards.
      2. The distance between horizontal projections and the bottom of the gripping surface shall be permitted to be reduced by 1/8 inch (3.2 mm) for each 1/2 inch (13 mm) of additional handrail perimeter dimension that exceeds 4 inches (100 mm).
  - **505.7 Cross Section.** Handrail gripping surfaces shall have a cross section complying with 505.7.1 or 505.7.2.
  - **505.7.1 Circular Cross Section.** Handrail gripping surfaces with a circular cross section shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum.
  - **505.7.2 Non-Circular Cross Sections.** Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum.
  - **505.8 Surfaces.** Handrail gripping surfaces and any surfaces adjacent to them shall be free of sharp or abrasive elements and shall have rounded edges.
  - **505.9 Fittings.** Handrails shall not rotate within their fittings.
  - **505.10 Handrail Extensions.** Handrail gripping surfaces shall extend beyond and in the same direction of stair flights and ramp runs in accordance with 505.10.
    - **EXCEPTIONS:**
      1. Extensions shall not be required for continuous handrails at the inside turn of switchback or dogleg stairs and ramps.
      2. In alterations, full extensions of handrails shall not be required where such extensions would be hazardous due to plan configuration.
  - **505.10.1 Top and Bottom Extension at Ramps.** Ramp handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent ramp run.
  - **505.10.2 Top Extension at Stairs.** At the top of a stair flight, handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beginning directly above the first riser nosing. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.
  - **505.10.3 Bottom Extension at Stairs.** At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser

nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

602 Drinking Fountains (Future Phases)

- **602.1 General.** Drinking fountains shall comply with 307 and 602.
- **602.2 Clear Floor Space.** Units shall have a clear floor or ground space complying with 305 positioned for a forward approach and centered on the unit. Knee and toe clearance complying with 306 shall be provided.

  EXCEPTION: A parallel approach complying with 305 shall be permitted at units for children's use where the spout is 30 inches (760 mm) maximum above the finish floor or ground and is 3 ½ inches (90 mm) maximum from the front edge of the unit, including bumpers.

- **602.3 Operable Parts.** Operable parts shall comply with 309.
- **602.4 Spout Height.** Spout outlets shall be 36 inches (915 mm) maximum above the finish floor or ground.
- **602.5 Spout Location.** The spout shall be located 15 inches (380 mm) minimum from the vertical support and 5 inches (125 mm) maximum from the front edge of the unit, including bumpers.
- **602.6 Water Flow.** The spout shall provide a flow of water 4 inches (100 mm) high minimum and shall be located 5 inches (125 mm) maximum from the front of the unit. The angle of the water stream shall be measured horizontally relative to the front face of the unit. Where spouts are located less than 3 inches (75 mm) of the front of the unit, the angle of the water stream shall be 30 degrees maximum. Where spouts are located between 3 inches (75 mm) and 5 inches (125 mm) maximum from the front of the unit, the angle of the water stream shall be 15 degrees maximum.

  Advisory 602.6 Water Flow. The purpose of requiring the drinking fountain spout to produce a flow of water 4 inches (100 mm) high minimum is so that a cup can be inserted under the flow of water to provide a drink of water for an individual who, because of a disability, would otherwise be incapable of using the drinking fountain.

- **602.7 Drinking Fountains for Standing Persons.** Spout outlets of drinking fountains for standing persons shall be 38 inches (965 mm) minimum and 43 inches (1090 mm) maximum above the finish floor or ground.

705 Detectable Warnings

- **705.1 General.** Detectable warnings shall consist of a surface of truncated domes and shall comply with 705.

- **705.1.1 Dome Size.** Truncated domes in a detectable warning surface shall have a base diameter of 0.9 inch (23 mm) minimum and 1.4 inches (36 mm) maximum, a top diameter of 50 percent of the base diameter minimum to 65 percent of the base diameter maximum, and a height of 0.2 inch (5.1 mm).

- **705.1.2 Dome Spacing.** Truncated domes in a detectable warning surface shall have a center-to center spacing of 1.6 inches (41 mm) minimum and 2.4 inches (61 mm) maximum, and a base-to base spacing of 0.65 inch (17 mm) minimum, measured between the most adjacent domes on a square grid.

- **705.1.3 Contrast.** Detectable warning surfaces shall contrast visually with adjacent walking surfaces either light-on-dark, or dark-on-light.

903 Benches

- **903.1 General.** Benches shall comply with 903.

- **903.2 Clear Floor or Ground Space.** Clear floor or ground space complying with 305 shall be provided and shall be positioned at the end of the bench seat and parallel to the short axis of the bench.

- **903.3 Size.** Benches shall have seats that are 42 inches (1065 mm) long minimum and 20 inches (510 mm) deep minimum and 24 inches (610 mm) deep maximum
- **903.4 Back Support.** The bench shall provide for back support or shall be affixed to a wall. Back support shall be 42 inches (1065 mm) long minimum and shall extend from a point 2 inches (51 mm) maximum above the seat surface to a point 18 inches (455 mm) minimum above the seat surface. Back support shall be 2 1/2 inches (64 mm) maximum from the rear edge of the seat measured horizontally.
- **Advisory 903.4 Back Support.** To assist in transferring to the bench, consider providing grab bars on a wall adjacent to the bench, but not on the seat back. If provided, grab bars cannot obstruct transfer to the bench.
- **903.5 Height.** The top of the bench seat surface shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the finish floor or ground.
- **903.6 Structural Strength.** Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (1112 N) is applied at any point on the seat, fastener, mounting device, or supporting structure.
- **903.7 Wet Locations.** Where installed in wet locations, the surface of the seat shall be slip resistant and shall not accumulate water.

2.3 Civil Basis of Design

The preliminary trail alignment and profile was created using 2011 LiDAR, 2017 Comal County parcel information and approximate utility locations. The trail overlaps an existing 21" sanitary sewer line that parallels the creek which has multiple manholes along the proposed trail alignment. Due to the expected future maintenance on the sewer line, the proposed trail structure is proposed to be 8" thick with 10" toe downs along the outer edges of the trail. It should be noted the existing sanitary sewer line is expected to be adjusted/upgraded per a New Braunfels Utilities sanitary sewer project and will need to be reviewed for potential future conflicts. Project phasing coordination may be required if trail and sanitary sewer adjustments are constructed simultaneously. Preferably, construction of trail would be constructed after sanitary sewer project. To meet 2010 ADA Standards for Accessible Design, the trail will have a maximum longitudinal slope of 4.75% and cross sectional slope of 1.5%. A minimum of 3 culvert crossings underneath the trail will be placed at locations of existing storm water flow paths. Additionally, roughly 130 feet of trail will need to be placed on structural piers to allow for positive storm water runoff. The attached schematic shows the proposed plan and profile of the trails alignment. The alignment is not considered detailed design and additional survey and design is needed before it can be finalized. The incorporation of survey data is suggested in helping better define the existing surface and tie-ins to existing features.

Water Quality Items

The City of New Braunfels has expressed interest in including water quality features with the construction of the trail project. Features located near the trail edge is not recommended as this will place the features well within the 100-year floodplain. If any features are placed within the 100-year floodplain, they would be susceptible to damage during a 100 year flooding event. There are two existing storm drain outfalls coming from the existing Town Creek development that could be potential locations for these features. From preliminary assessment of those areas, there may be an opportunity to install "planted" Low Impact Development (LID) or a small Continuous Deflective Separation System (CDS System). A CDS system is a drainage structure that would remove floatables, oil/grease and suspended materials from the surface runoff before it is discharged into the creek. Both systems would have to be installed outside the existing 100-year floodplain causing the features to be over 100 feet away from the trail edge and within the

adjacent property. Coordination with the adjacent property owner and modifications to their existing storm drain infrastructure would be required. Opportunities for water quality features may be identified in other areas once more information is collected.

A proposed residential development located west of the proposed trail will construct a roadway bridge crossing over Dry Comal Creek at Guenther Ave. It is assumed the beginning and end of the bridge will be placed at the top of bank requiring the proposed trail to cross underneath the new bridge structure. Further coordination between the trail project and proposed development will be necessary during detailed design.

The following codes and standards have the potential to govern the project design:

- AASHTO-Guide for the Development of Bicycle Facilities
- 2010 ADA Standards for Accessible Design
- New Braunfels Code of Ordinances
- City of San Antonio standard specifications and details
  - Unless specification/detail has been amended by the City of New Braunfels.
- Texas Department of Transportation standard specifications and details
  - Unless specification/detail has been amended by the City of New Braunfels.
- Union Pacific Railroad-BNSF Railway – Guidelines for Railroad Grade Separation Projects.
- Texas Accessibility Standards, 2012 edition

3.0 Conceptual Design Narrative





Fig 3.1.1 Dry Comal Creek

3.1 Architectural Narrative

Design Concept

The design concept for the hike and bike trail will follow greenway trail design strategies. Those strategies include providing a corridor for people and wildlife, mitigating soil erosion, filtering pollution caused by storm-runoff, restoring Dry Comal Creek to a more natural state by removing invasive vegetation species, and providing opportunities for connecting neighborhoods to downtown.

Neighborhood connections provide an accessible means of entry. Neighborhood connections will be located at N. Walnut Avenue, Town Creek, and Landa Street. The new trail will replace the existing decomposed granite trail with a new 10 ft. wide broom finish concrete trail with special paving at neighborhood connections and other areas (Fig 3.1.4). The concrete trail is expected to run the full length of Phase 1. At the Union Pacific Railroad bridge a ballast protector will need to be installed over the trail and under the railroad tracks to protect pedestrians from falling debris (Fig 3.1.1). An elevated walkway on piers with guardrails at the N. Walnut Avenue neighborhood connection will connect to the existing concrete ramp (Fig. 3.1.2 and Fig 3.1.3) and under N. Walnut Avenue to a parking lot on the north bank. This will allow a seamless transition over the steep terrain in this area. The remainder of the trail will remain at grade level and can be achieved with a slope no more than 5% with a 2% cross-slope complying with the Texas Accessibility Standards. There is a large storm drain adjacent to the Town Creek development that will be modified by removing the current concrete slab a bioswale that will break up the flow and minimize erosion along the bank.

Amenities will include a bike fixit station, waste and recyclable station, and dog waste stations at every neighborhood connection.

Potential Sustainable Strategies

- Preserve flood plain functions
- Reuse soil/rock materials generated onsite
- Restore disturbed soils
- Storm water features (ex: bioswales)
- Selection of regional materials
- Native vegetation/landscaping
- Dark Sky Lighting
- Surface/Groundwater contamination
- No/limited impact of threatened or endangered species habitats
- No irrigation after one year of establishing new landscape
- Selection of materials with recycled content
- FSC certified wood products
- Low VOC emitting materials
- Selection of resilient materials
- Selection of materials based on operation and maintenance requirements
- Education/Community engagement



Fig. 3.1.1 Trail at Union Pacific Railroad bridge.



Fig. 3.1.2 Elevated walkway at Walnut Ave. neighborhoos connection.



Fig. 3.1.3 Walnut Ave. neighborhood connection.



Fig. 3.1.4 Observation area.



Fig. 3.1.5 Trail at Knights of Columbus property as it approaches Landa Street Bridge.



Fig. 3.1.5 Trail as it approaches Wursthalle.



Fig. 3.1.5 Trail as it approaches Wursthalle.



Fig. 3.1.6 Landa Street bridge neighborhood connection.

3.2 Civil Narrative

The proposed trail alignment parallels the west side of Dry Comal Creek for roughly 0.8 miles creating an area of disturbance of roughly 1.2 acres. It begins underneath the Walnut Ave bridge and ends just north of Landa St connecting to the existing sidewalk. The proposed trail is located within the City of New Braunfels and enters and crosses existing Texas Department of Transportation and Union Pacific Rail Road right of ways. Appropriate permitting will be necessary for both of these entities for construction of the project. Additionally, the proposed trail is located within the 100-year floodplain and is within the Transition Zone of the Edwards Aquifer. A floodplain permit and the following of TCEQ standard regulations will be required. The permits below have the potential of being required for the construction of this project. Anticipated review timeframes for each permit are shown in parenthesis and assume all required forms and/or design information have been submitted:

- City of New Braunfels
  - Site Preparation Permit (20 days)
  - Public Infrastructure Permit (20 days)
  - Tree Removal Permit (20 days)
- Texas Commission of Environmental Quality (TCEQ)
  - TXR150000
    - Small Construction Site Notice
    - Storm Water Pollution Prevention Plan (SW3P)
    - National Environmental Policy Act Permit/Survey
- Floodplain Development Permit
  - CLOMR (9-12 month)
  - LOMR (9-12 month)
- Rail Road Permits
  - Right of Entry Agreement (4 weeks)
  - Construction and Maintenance Agreement (12-18 month process)
- Texas Department of Transportation Right of Entry Permit (1 month)

It should be noted the total process in obtaining a Construction and Maintenance Agreement from the Union Pacific Railroad is anticipated to be 12-18 months. It is recommended that the preliminary engineering agreement be submitted immediately upon city bond approval to the Union Pacific Railroad to begin the process. Additional information can be obtained by contacting the Southern Region point of contact Brandon Kasper through the Union Pacific Railroad website. It should also be noted a ballast retainer will be required when crossing underneath the existing rail road bridge for pedestrian safety. The retainer will need to span 30' on either side of the railroad structure per railroad guidelines.

Easements

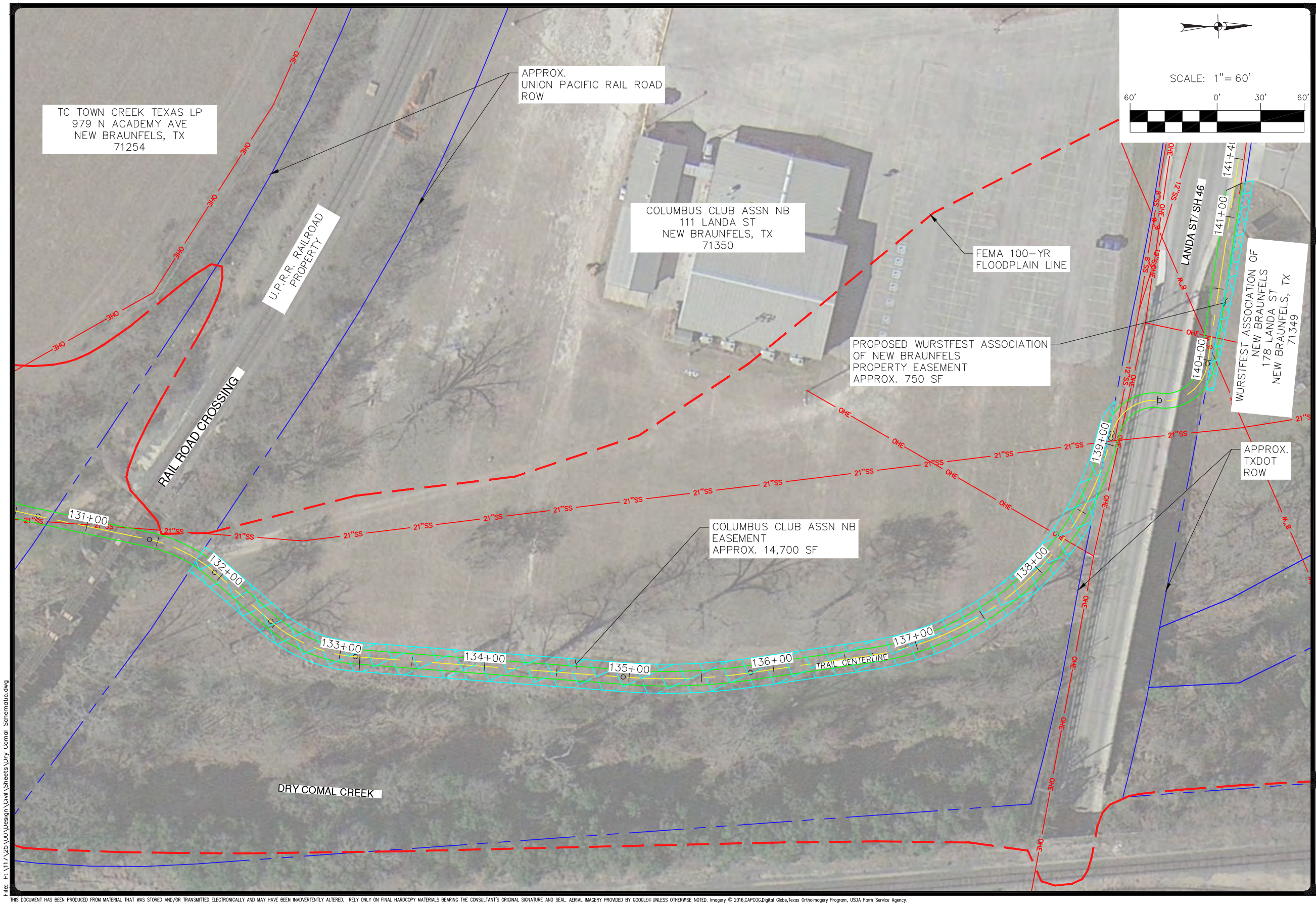
The proposed trail alignment goes through three privately owned properties with two of the properties requiring the project to acquire an easement. The third property will be dedicating the needed land to the City of New Braunfels for this project.

The first property is owned by the New Braunfels Knights of Columbus. The proposed easement will run along the length of the proposed trail within the property and is assumed to have a width of 20 feet. The approximate easement area will be 14,700 square feet. Using 2018 data taken from the Comal County Appraisal District website, the land value of the property is $1.89 per square foot. Based upon that evaluation, the approximate cost for the easement is around $30,000. The second property is owned by the Wurstfest Association of New Braunfels. The proposed trail alignment follows the edge of the Landa St/TXDOT right-of-way line with a portion of the trail being within the private property. The proposed easement will be created by offsetting 5 feet from the right-of-way. The approximate easement area will be 750 square feet. Using 2018 data taken from the

Comal County Appraisal District website, the land value of the property is $1.41 per square foot. Based on that evaluation, the approximate cost for the easement is around $1,100. It should be noted the property lines used in obtaining the easement areas are approximate and do not use survey information. The development of the metes and bounds will be necessary in the development of the proposed easements and will cost around $5,000 to develop. An exhibit showing the locations of the proposed easements is provided.

Temporary Construction Easement

Temporary Construction Easements (TCE) will also likely be required from these 2 properties. Since the proposed improvements are a benefit to both properties, it is anticipated that an agreement could be reached with minimal cost. It will be necessary however, to not impact the Knight of Columbus or Wurstfest operations during the annual Wurstfest festival. This will need to be accounted for in the future construction documents.



PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028800

CITY OF NEW BRAUNFELS- DRY COMAL CREEK HIKE AND BIKE TRAIL- SEGMENT 1

PRELIMINARY PROJECT EASEMENTS

JOB NO. 11725-00
DATE SEPT 2018
DESIGNER JM
CHECKED
DRAWN JM
SHEET 1 of 1

File: P:\11725\00\Design\Civil\Sheets\Dry Comal Schematic.dwg

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3.3 Environmental Graphics Narrative

Design Intent

Environmental Graphics for the Dry Comal Hike and Bike Trail will be designed to create a memorable trail identity and for successful wayfinding, identification and code compliancy. The environmental signage will support the desired program as well as establish a strong connection to the neighborhoods. The materiality will be complimentary to the surroundings, consistent with the trail character, and sturdy enough to withstand both periodic flooding and to resist vandalism.

Wayfinding Components

Signage elements will be of approximate sizes listed below and be constructed of formed concrete bases with galvanized vertical structures and resin embedded graphics. Assume pier footings and no lighting. Sign types will include the following:

- 4 ft x 9 ft Trailhead- One at each end of the trail segment (2) - (Fig.3.3.1)
- 2 ft x 6 ft Pedestrian Directional (4) - (Fig 3.3.2)
- 8 in by 2 ft Mile Markers every .25 mi. (3) - (Fig 3.3.3)
- 2 ft x 4 ft Interpretive/educational signs (3) - (Fig 3.3.4)



Fig. 3.3.1 - 4ft x 9 ft Trailhead- One at each end of the trail segment (2).



Fig. 3.3.2 - 2 ft x 6 ft Pedestrian Directional (4).



Fig. 3.3.4 - 8 IN X 2FT Mile Markers every .25 mi. (3).




Fig. 3.3.2 - 2 ft x 4 ft Interpretive/educational signs (3).

3.4 Landscape Narrative

Design Intent

The landscaping associated with the Dry Comal Hike and Bike Trail is designed to supplement the beauty of the natural setting, and emphasize the trailheads as a destination for exercising, socializing and enjoying nature.

Landscaping

Selective clearing and manual removal of invasive tree species shall occur along the riverbank for the length of the trail.

(Fig. 3.4.1)

Reseed disturbed areas adjacent to the trail (minimum 2' on either side of trail) with Native Seed Mix, available from Native American Seed.

New planting beds of approximately 5,000sf total (+/-2,000sf per trail head, plus 1,000sf at the outdoor classroom), mulched with hardwood mulch and planted primarily with native, or native-adapted trees, shrubs, grasses and groundcovers.. The area should be irrigated with temporary irrigation for 1-2 years. Provide 3-5 large limestone boulders for informal seating at each trail head.

(Fig. 3.4.2)

Plant sizes will be 4" caliper for Shade Trees; 6' height for Ornamental Trees; 3-gallon containers for shrubs or ornamental grasses, and 1-gallon containers for groundcovers. Preliminary plant list might include:

Shade Trees

Monterrey Oak
Live Oak
Cedar Elm
Bald Cypress

Ornamental Trees

Mountain Laurel
Texas Redbud
Mexican buckeye
Wax Myrtle

Shrubs and Grasses

Inland Sea Oats
Texas Lantana
Texas Sage
Rock Rose
Mexican Oregano
Mexican Bush Sage
Copper Canyon Daisy
Esperanza
Lindheimer Muhly Grass
Gulf Muhly Grass
Turk's Cap

American Beauty Berry
Red Hesperaloe
Spineless Prickly Pear

Groundcovers

Pink Skullcap
Texas Betony
Purple Trailing Lantana
New Gold Lantana

(Fig 3.4.3)



Fig. 3.4.1



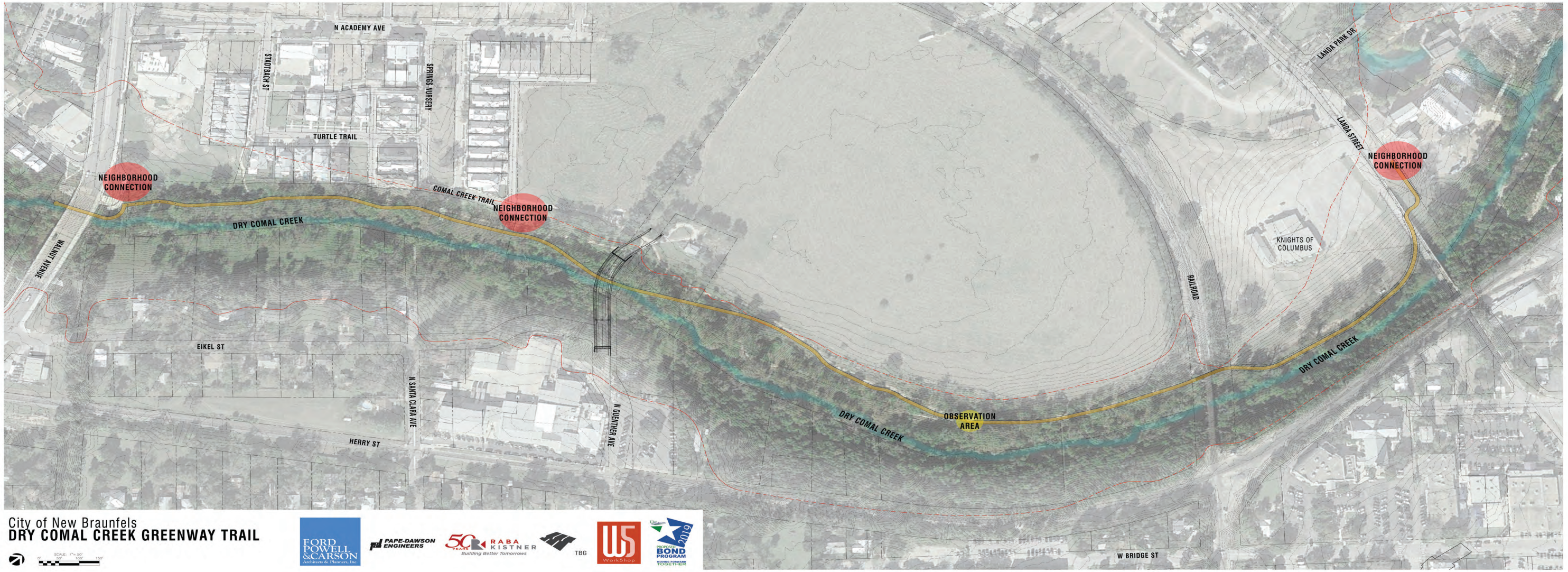
Fig. 3.4.2



Fig. 3.4.3

4.0 Drawings & Idea Boards

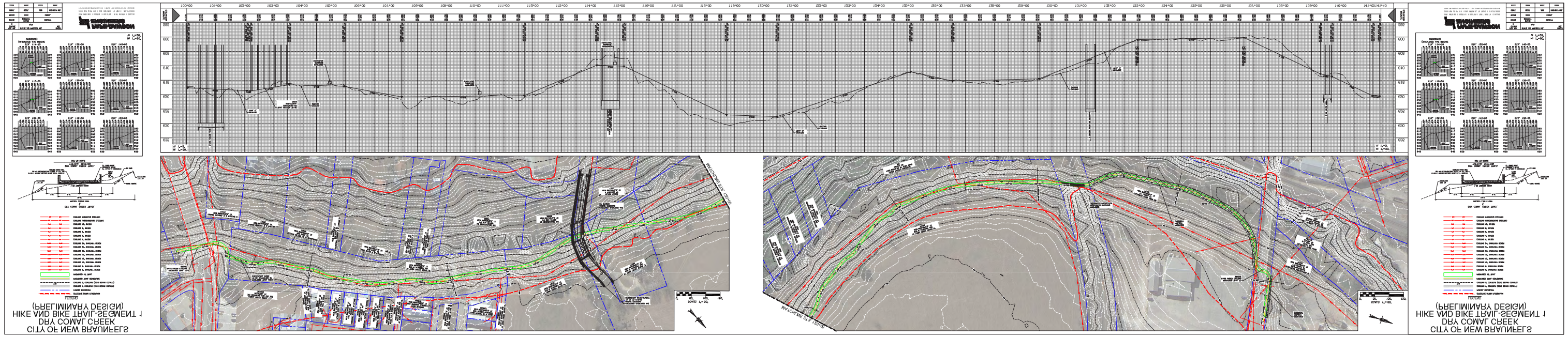




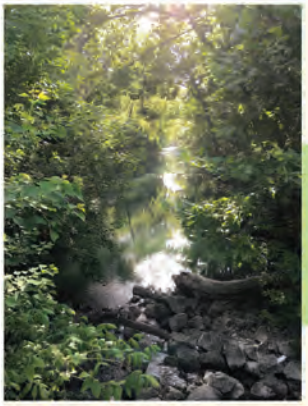
City of New Braunfels
DRY COMAL CREEK GREENWAY TRAIL

SCALE: 1"=50'

FORD POWELL SCARSON Architects & Planners, Inc | PAPE-DAWSON ENGINEERS | RABA KISTNER Building Better Tomorrows | TBG | Workshop | 2019 PROPOSITION BOND PROGRAM


(PRELIMINARY DESIGN)
HIKE AND BIKE TRAIL-SEGMENT 1
DRY COMAL CREEK
CITY OF NEW BRAUNFELS

BENEFITS OF GREENWAYS



Environmental Impacts

Greenways protect important habitat.
Provide corridors for people and wildlife.
Improve air and water quality.
Prevent soil erosion.
Filter pollution caused by agricultural and storm run-off.

Economic Impacts

Strengthens local community.
Provides opportunities for economic renewal and growth.
Increases property values.
Promotes recreation-related spending on items such as bicycles.





Preservation

Preserves culturally and historically valuable areas.
Makes communities better places to live by protecting and creating open spaces.
Restores creek to natural state.
Helps prevent potential flooding damage.

Healthy Living

Encourages physical fitness and healthy lifestyles.
Provides new opportunities for outdoor recreation and non-motorized transportation.
Provides a safe inexpensive avenue for regular exercise.



FORD POWELL &CARSON Architects & Planners, Inc.
PAPE-DAWSON ENGINEERS
50 YEARS RABA KISTNER Building Better Tomorrows
TBG
Work5hop
2019 PROPOSED BOND PROGRAM MOVING FORWARD TOGETHER

CREEK RESTORATION









FORD POWELL &CARSON Architects & Planners, Inc.

PAPE-DAWSON ENGINEERS

50 YEARS RABA KISTNER Building Better Tomorrows

TBG

Work5hop

2019 PROPOSED BOND PROGRAM MOVING FORWARD TOGETHER

AMENITIES


PET WASTE STATION


BENCHES


BIKE FIXIT STATION


RECYCLE AND WASTE BINS











TRAIL PAVING OPTIONS

FORD POWELL &CARSON Architects & Planners, Inc.

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Work5hop

2019 PROPOSED BOND PROGRAM MOVING FORWARD TOGETHER

5.0 Cost Estimate



City of New Braunfels
Dry Comal Creek Hike & Bike Trail
Conceptual Opinion of Probable Project Construction Cost
September 28, 2018

Estimated Cost of the Work	$1,445,988
Projected Owner Project Costs	
Building Permit Fees	n/a
TDLR/Architectural Barriers Review & Inspection Fees	$1,350
Floodplain Development Permit (assumes no CLOMR/LOMR will be required)	$1,800
Estimated A/E Design Fees*	$122,909
Union Pacific Railroad Permit (Allowance)	$3,000
Archaeological Pedestrian Survey	$10,000
Knights of Columbus Easement	$27,800
Wurstfest Easement	$1,100
Metes & Bounds Preparation, Both Easements	$5,000
Total Projected Project Costs	**$1,618,947**

**Pending Final Scope of Services*

City of New Braunfels
Dry Comal Creek Hike & Bike Trail — 4,140 lf Total Trail Length
Conceptual Opinion of Probable Project Construction Cost — $349.27 /lf
September 28, 2018

	Description		Category Total
01	General Requirements		$69,000
02	Existing Conditions		$61,380
03	Concrete		$25,900
04	Masonry		-
05	Metals		$93,750
06	Wood, Plastics & Composites		$2,258
07	Thermal & Moisture Protection		-
08	Doors & Windows		-
09	Finishes		-
10	Specialties		$49,250
11	Equipment		-
12	Furnishings		-
13	Special Construction		-
14	Conveying		-
21	Fire Suppression		-
22	Plumbing		-
23	HVAC		-
26	Electrical		-
27	Communications		-
28	Electronic Safety & Security		-
31	Earthwork		$168,840
32	Exterior Improvements		$520,572
33	Utilities		$12,205
	Subtotal Direct Costs		**$1,003,155**
	General Conditions	10%	100,316
	General Contractor Fee/Bonds	5%	55,174
	Design Contingency	20%	231,729
	Escalation (to September 2019)	4%	55,615
	Estimated Cost of Work		**$1,445,988**

City of New Braunfels
Dry Comal Creek Hike & Bike Trail
Conceptual Opinion of Probable Project Construction Cost
September 28, 2018

Estimate Detail

Description	Quantity	Unit		Subtotals	Total
DIVISION 01 - GENERAL REQUIREMENTS					
Cleanup - Periodic	6	months	$10,800		
Street Clean/Dumpster	20	weeks	$11,000		
Safety Meetings/Materials	6	months	$4,500		
Project Construction Signage	1	ls	$2,500		
Temporary Fencing/Barricades	1,000	lf	$7,000		
Temporary Irrigation at Trailheads	52	weeks	$18,200		
Layout/Site Engineering	1	ls	$15,000		
			Subtotal	$69,000	
			Total Division 01		**$69,000**
DIVISION 02 - EXISTING CONDITIONS					
Remove Concrete Sidewalk & Driveways	200	sf	$600		
Remove Miscellaneous Concrete/RipRap	200	sf	$600		
Remove Concrete Curb	15	lf	$60		
Remove Existing Railing	15	lf	$120		
Selective Cleaning & Manual Removal of Invasive Species	1	ls	$45,000		
Haul-off & Disposal	1	ls	$15,000		
			Subtotal	$61,380	
			Total Division 02		**$61,380**
DIVISION 03 - CONCRETE					
Elevated Concrete Deck at Walnut Connection	37	cy	$25,900		
			Subtotal	$25,900	
			Subtotal Division 03		**$25,900**
DIVISION 5 - METALS					
Covered Walkway Ballast Protection	1,050	sf	$57,750		
Guardrails/Handrails at Elevated Path at Walnut	180	lf	$36,000		
			Subtotal	$93,750	
			Total Division 05		**$93,750**
DIVISON 6 - WOOD, PLASTICS & COMPOSITES					
Plywood Decking at Ballest Protection Structure	1,050	sf	$2,100		
Waterproofing Membrane	1,050	sf	$158		
			Subtotal	$2,258	
			Subtotal Division 06		**$2,258**

DIVISION 10 - SPECIALTIES				
Trailhead Signage, 4' x 9'	2	ea	$15,000	
Pedestrian Directional Signage, 2' x 6'	4	ea	$14,000	
Mile Markers, 8" x 8" x 2', at 1/4-mile intervals	3	ea	$3,750	
Interpretive/Educational Signage, 2' x 4'	3	ea	$16,500	
		Subtotal	$49,250	
		Total Division 10		**$49,250**
DIVISION 31 - EARTHWORK				
Channel Embankment	1,900	cy	$30,400	
Haul Spoils	2,090	cy	$16,720	
Embankment	770	cy	$20,020	
Sodding	18,600	sf	$13,950	
Riprap, dry, 12"	10	cy	$750	
Drilled Shafts (assume 18" diameter, 20' deep)	140	lf	$6,300	
Stormwater Features (bioswales, assume 2)	1	allow	$60,000	
Grading/shaping for Concrete Trail	41,400	sf	$20,700	
		Subtotal	$168,840	
		Total Division 31		**$168,840**
DIVISION 32 - EXTERIOR IMPROVEMENTS				
Concrete				
Trail	41,400	sf	$238,050	
Concrete Trail - Add for Textures	41,400	sf	$4,140	
Sand Leveling Bed - 2"	41,400	sf	$14,490	
Stone Paving at Wurstfest Connection & Creek View	1,220	sf	$35,380	
Concrete Retaining Walls w/ reinforcing	240	cy	$156,000	
Miscellaneous Concrete	1	ls	$15,000	
		Subtotal	$463,060	
Landscaping				
Temporary Tree Protection	1	ls	$15,000	
Reseed Distrubed Areas - 2' Each Side of Trail	16560	sf	$3,312	
New Planting Beds at Trail Heads	2000	sf	$24,000	
Large Limestone Boulders at Trailheads	4	ea	$3,000	
		Subtotal	$45,312	
Amenities				
Recyclabes Staton	4	ea	$10,000	
Dog Waste Station	4	ea	$2,200	
		Subtotal	$12,200	
		Total Division 32		**$520,572**
DIVISION 33 - UTILITIES				
Piping & Structures				
Reinforced Concrete Pipe Class III, 18"	55	lf	$2,255	
Concrete Headwall Structure	2	cy	$1,500	
Set 18" RCP	4	ea	$1,400	
Adjust Manhole	4	ea	$6,000	
Excavation/Backfill	1	ls	$1,050	
		Subtotal	$12,205	
		Total Division 33		**$12,205**
		Subtotl Direct Costs		**$1,003,155**

6.0 Kick-off Meeting Minutes



MEETING MINUTES

FORD POWELL &CARSON Architects & Planners, Inc.

Architecture
Planning
Interior Design
Preservation

DATE:	July 20, 2018	LOCATION:	Office of the City of New Braunfels
PROJECT:	Dry Comal Creek	ATTENDEES:	John Mize, FPC Laura Elvia Hall , FPC Nathan Perez , Work5hop Steven Dean, Pape-Dawson Nate Garza, CoNB Ylda Capriccioso , PARD Marta NewKirk, National Park Service Jennifer Cain, CoNB Elaine Kearney, TBG Partners Nick Post, RKCI
FPC #:	97600		
PREPARED BY:	John Mize, Principal		

The following is Ford Powell & Carson's record of the subject meeting.
We assume the information contained herein is complete and correct unless we are immediately notified to the contrary.

Meeting summary
The purpose of the Project Kick-Off Meeting was to introduce the project team, identify project limits, goals, deliverables, and schedule.

Notes as follows:

Programming Options/Things to think about
Amenities:
- shade structures with picnic tables
- bike repair stations (air pump, minimal bike repair tools secured with cable)
- drinking fountains with pet bowls

Trail connections:
- Walnut Avenue
- North Guenther
- Spring Nursery
- Landa Street

Trailheads:
- Trailheads with parking (none apparent in this initial 0.75 mile segment) and Illumination
- Future trailheads with parking only?
- Street connections?
- Entire trail?

Typical trail width per AASHTO guidelines is 10' width plus a 2' clear zone on either side

City of New Braunfels Parks Department will be responsible for trail maintenance. At the present, flood cleanup is by volunteer groups.

Signage types

- Directional
- Wayfinding (maps)
- Interpretives

New Braunfels has a signage standard for public parks; but Dry Comal Creek trail should have its own identity.
Gateway signage at trail connections to streets and future trailheads.

Other Stakeholders

- Union Pacific Railroad (for permitting approval in railroad ROW)
- Town Creek HOA
- Comal County
- National Park Service

Town Creek HOA has indicated their willingness for a connection to the trail.
An existing spring was paved over adjacent to the Town Creek development.

Project Constraints

- Entire length of this segment appears to be in the 100-year floodplain
- Recommended trail section would be 5" reinforced concrete with deep turndown footings to prevent scour
- Flood events have created flows in the 15,000 CFS range.
- Concrete trail section is preferred by NB for long-term maintenance. Stakeholders have stated their preference for a natural appearance.
- Trailhead parking is generally asphalt paving.

Other Concerns

- Water quality betterment. Overall health of the creek is in the middle range. A high bacteria count has been measured in the Knights of Columbus area.
- Planned future expansion of the Town Creek development will generate additional storm water runoff and contaminants entering the creek.
- Habitat
- Invasive removal and replacement with more native plant species.
- Trail is currently used by residents for recreation, fitness and connectivity.
- Future use would also be connecting residential areas and downtown.
- Future trail use would shift from a hike & bike trail to a Greenway Trail, including potentially outdoor classrooms with look-out points.
- Trails are also used by several birding groups.
- This initial segment will set a standard for future segments.
- Repair of badly eroded area adjacent to the Walnut Avenue entrance is to be included.
- Emergency phones will not be required.

#97600 Meeting Minutes
July 20, 2018

Community Meeting
A tentative date of August 22nd was set for the Community Meeting. Meeting would start at 6:00pm until 8:00.
The City will confirm a venue and advertise with community groups and other stakeholders.

As contractors with the City, design team is not allowed to advocate for the project.

Schedule moving forward
Following submittal of concepts on September 28th, the project will be considered by the Bond Advisory Committee in October for inclusion in the May 2019 Bond Election.
Assuming passage, actual design work would commence.
The conceptual cost estimate should include two options for escalation:

- Option 1 – immediate construction following design/CDs completion
- Option 2 – construction starting 2 years out (mid-2021)

End of Meeting Notes

7.0 Community Feedback Survey



City of New Braunfels
Dry Comal Creek Hike & Bike Trail
Community Meeting & Online Survey Results
August 22, 2018

NO.	COMMENTS	NOTES	SEGMENT 1	FUTURE PHASES	UNDER CONSIDERATION	RESPONSE
01	"I thought the Bond project included the entire trail area?"					No action required
02	"This is a great start. Need to get this Greenway funded!"					No action required
03	"Please include the ENTIRE Greenway in 2019 Bond."			•		Beyond project
04	"Connectivity along the entire greenway system is what makes this a greenway. It needs to have our support on 2019 Bond."			•		
05	" I would like to see hike/bike trails along the entire greenway."			•		
06	"Criminal activity around Solms Park. Not in City Limits. Ms Wetz? Stratemen Lane/Altget Lane."					Beyond project scope
07	"Needs to connect with neighboring greenbelts (Schertz, San Marcos, etc.)"			•		
08	"How do we go here and back when your in a hurry?"					
09	"Single track for mountain biking"		•	•		
10	"How do you secure private property encroachment - fence?"					Beyond project scope
11	"Build/finish intown development first - it will encourage in-fill development and community formation!"					No action required
12	"Like Town Lake"					No action required
13	"Crushed granite or similar surface"				•	
14	"Concrete too hot, HARD on feet, ankles, knees, backs"				•	
15	"I would like to see the trail connect to Hinman Island"					
16	"Excited to take students to an outdoor classroom - not in Seguin!! We would stay closer to home. :)"			•		
17	"I hope bridge to neighborhood access from N Guenther Ave does NOT include car access past smokehouse."					Beyond project scope
18	"Crushed granite"				•	
19	"Improve bike lanes on streets connecting to parks and the trail"					CoNB action item.

City of New Braunfels
Dry Comal Creek Hike & Bike Trail
Community Meeting & Online Survey Results
August 22, 2018

NO.	COMMENTS	NOTES	SEGMENT 1	FUTURE PHASES	UNDER CONSIDERATION	RESPONSE
20	"Use natural materials/mulch, crushed granite, pervious paving stones. Concrete where needed only."				•	
21	"Physical path connection to Das Rec!"	This post-it note had a green sticky dot added as a second vote for this comment.				Beyond project scope
22	"Crushed granite"				•	
23	"Connection to Hinman Island, Schlitterbahn, tube chute, Prince Solms, businesses"			•		
24	"Coming under Landa Bridge would be a neat adventure - to add :)"		•			
25	"Comal Creek Greenway Project – Huge thumbs up!"					No action required
26	"Debris from up-stream --"		•	•		
27	"Work with City of Schertz to make regional trail connection! Contact Lauren Shrum - Parks Director"					CoNB action item.
28	"Visitors to parks and restaurants"					No action required
29		Green sticky dot placed on map at intersection of Moss Rock Drive and Wood Road	No action required			
30		Wetz properties marked on map	No action required			
31		Farmer's Market marked on map				CoNB action item.

PHASE ONE MAP 1						
32	"Destination point needs bike racks."	This comment references Dos Rios Restaurant		•		CoNB action item.
33	"Bike racks near businesses."	Accompanies a red dot on the map at N Academy Ave.				CoNB action item.

City of New Braunfels
Dry Comal Creek Hike & Bike Trail
Community Meeting & Online Survey Results
August 22, 2018

NO.	COMMENTS	NOTES	SEGMENT 1	FUTURE PHASES	UNDER CONSIDERATION	RESPONSE
34	"Bench? Water fountain?"	Accompaines a red dot at the Walnut Ave neighborhood connection		•		
35		Green dot placed at Walnut Ave neighborhood connection				No action required
36	"Bridge Connection"	Note is placed at the private bridge at N Guenther Ave	•			
37	"Connection to downtown important!"	Accompanies a green dot at N Guenther Ave neighborhood connection	•			
38		(2) Additional green dots placed at the N Guenther Ave neighborhood connection	•			
39	"←Single track for mountain biking throughout→"				•	
40	"Fence protection (grounded)?"	At Railroad bridge crossing	•			Anticipate 12-18 months for Union Pacific permitting
41	"Path connection to Das Rec ↑"	Arrow points northwest and is accompanied with (3) green dots				Beyond project scope
42	"Terrible for humans, not great for cars either."	Landa Street is circled.				No action required. Outside of project scope.
43	"Problematic access from downtown ↑"					Beyond project
44	"Benches? Water features?"	Accompanied by a red dot at Landa Street bridge.	•			
45		(2) Green dots at the Landa Street neighborhood connection	•			

City of New Braunfels
Dry Comal Creek Hike & Bike Trail
Community Meeting & Online Survey Results
August 22, 2018

NO.	COMMENTS	NOTES	SEGMENT 1	FUTURE PHASES	UNDER CONSIDERATION	RESPONSE
46	"Destination point needs bike racks"	Accompanies a red dot at the Wurstfest entrance	•			
47	"Bike lane ends here."	Notation located at Landa Park Dr and the south-bound lane of Landa Street.				No action required. Outside of project scope.
48	"←Crossing problem."	Arrow points to Landa Street at the neighborhood connection.				The CoNB to address in the future.
PHASE ONE MAP 2						
49	"Overlook"	Located at Walnut Ave neighborhood connection	•			Extend trail under Walnut Ave. Connect to
50		Arrow pointing from proposed trail at Walnut Ave to beyond Walnut.	•			
51		Green dot at Walnut Ave neighborhood connection	•			No action required
52	"Yes!"	Written on green dot at property line located at Stadtbacht St. and Turtle Trail	•			No action required
53	"Yes"	Accompanies a green dot along the creek-side of the property of a home on Turtle Trail	•			No action required
54		Green dot on top of the Outdoor Classroom	•			No action required
55	"←Springs→"	Note is located east of the Outdoor Classroom.	•			

City of New Braunfels
Dry Comal Creek Hike & Bike Trail
Community Meeting & Online Survey Results
August 22, 2018

NO.	COMMENTS	NOTES	SEGMENT 1	FUTURE PHASES	UNDER CONSIDERATION	RESPONSE
56		Green dot located at the neighborhood connection.	•			No action required
57	"Bridge"	Bridge at Guenther Ave is outlined.	•			Town Creek Development is responsible.
58	"Spring"	Note is located south of the N. Guenther Ave. Bridge.	•			
59	"Spring"	Note is located north of the N. Guenther Ave. Bridge.	•			
60	"Opportunity for parking?"	An arrow was drawn that stretches from the west side of Guenther bridge to an area east of the creek near New Braunfels Smokehouse.			•	
61	"No Thx"	Written on red dot next to the note that states "opportunity for parking?"				No action required
62		Green dot at the N. Guenther Ave neighborhood connection.	•			No action required
63		Happy Face drawn on green dot at N. Guenther Ave.				No action required
64	"*Beaver Sighting!"	Note is located northeast of the New Braunfels Smokehouse and east of the creek.				No action required
65	"Dig & widen the channel. Riverwalk."				•	
66	"No concrete."	Written on a red dot.			•	
67	"NG [decomposed granite] is good."	Written on green dot right next to red dot above.			•	

City of New Braunfels
Dry Comal Creek Hike & Bike Trail
Community Meeting & Online Survey Results
August 22, 2018

NO.	COMMENTS	NOTES	SEGMENT 1	FUTURE PHASES	UNDER CONSIDERATION	RESPONSE
68	"Ped/bike connection here."	Points to a hand drawn bridge connection at N. Academy St. east of the creek.				No action required. Outside of project scope.
69	"Ppl from DT". [people from downtown]	Written on green dot located at the hand drawn bridge at N. Academy Ave.				No action required. Outside of project scope.
70	Neighborhood Connection	Comment written adjacent to hand drawn bridge at N. Academy Ave.				No action required. Outside of project scope.
71	"To Downtown↓"	Arrow points from hand drawn bridge at N. Academy towards the east.				No action required. Outside of project scope.
72	"Designated mural."	Written on green dot at rail road bridge.				Beyond project scope
73	"Connect to Das Rec"	Written on post-it note near rail road bridge west of the creek.				Beyond project scope
74	"How is it going to flood the river?"	Written on green dots east of the Knights of Columbus property.				The greeway will improve water flow.
75	"←Floods often→"	Written on west bank of creek along entire stretch of the Knights of Columbus propery.	•			
76	"←Lighting under bridge."	Note points to trail under Landa Street bridge.			•	
77	"Where do maintenance trucks access the trail?"	Confirm size of truck.	•	•		CoNB to confirm.
78	"What are maintenance needs?"					

City of New Braunfels
Dry Comal Creek Hike & Bike Trail
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NO.	COMMENTS	NOTES	SEGMENT 1	FUTURE PHASES	UNDER CONSIDERATION	RESPONSE
AMENETIES PRESENTATION BOARD						
79		Green dot placed on Pet Drinking Fountain image.				No action required
80		Green dot placed on Pet Waste Station.	•			No action required
81	"Not cement."	Written on red dot and placed on concrete trail in front of bench.			•	
82		Green dot placed on Picnic Tables image.		•		No action required
83		(2) Green dots placed on Recycle and Waste Bins image.	•	•		No action required
TRAIL PAVING OPTIONS PRESENTATION BOARD						
84		(2) Green dots placed in the natural landscape area in the top right-hand image.				No action required
85	"Not concrete."	Written on red dot and placed on concrete trail in the top right-hand image.			•	
86		Red dot on lower left image indicates the person did not like the pattern shown.				No action required
ONLINE SURVEY						
87	Yes! We need this and more -					No action required
88	Develop it as an ecological preserve area and trails for hiking and biking		•	•		

City of New Braunfels
Dry Comal Creek Hike & Bike Trail
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NO.	COMMENTS	NOTES	SEGMENT 1	FUTURE PHASES	UNDER CONSIDERATION	RESPONSE
89	What about effects from flooding? Would like trail to extend under Landa St. Bridge and/or bypass Knights of Columbus building		•			
90	The concept to increase recreation opportunities for non-motorized transportation is wonderful. We for sure will bring many visitors to our community to enjoy our wonderful places.		•	•		
91	Thank you for what you are doing! Open most of trail sooner, add improvements @ nodes, better surfacing, etc over time.		•	•		
92	Yes! Soon! More!					No action required
93	Like it! NB needs to take advantage of the natural woodlands and creeks w/in the city to encourage healthy lifestyles.					No action required
94	non concrete. Ex: crushed granite				•	
95	Great ideas!					No action required
96	long overdue					No action required
97	non-concrete surface				•	
98	I would love a car-free place to cycle.		•	•		
99	Full support to develop it					No action required
100	I love it. We need more of it!!					No action required
101	I hope to cycle and jog along greenway.		•	•		
102	Connecting trail sections is vital			•		
103	My preference is to build trails w/o concrete.				•	
104	A natural surface to run on, rather than; or in addition to the proposed concrete path. Even 1 foot wide will do!				•	
105	I am interested in facilitating a walkable, bikeable community.		•	•		

City of New Braunfels
Dry Comal Creek Hike & Bike Trail
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NO.	COMMENTS	NOTES	SEGMENT 1	FUTURE PHASES	UNDER CONSIDERATION	RESPONSE
106	I would like to connect from Dry Comal Creek Park to Walnut than the way you are proposing now		•			
107	Valuable addition to New Braunfels outdoor recreation! Great opportunity to utilize flood prone greenway.					No action required
108	What is the flood gauge going to be? And what is the river going to do for people? How are they going to build it to 2019? Is it going to be connected to the city?		•	•		
109	Town Creek is a golf cart community and this limits our access to Landa Park		•			
110	live on creek. interested to see proposed trail past Walnut.		•			
111	Thank you! Yay!					No action required
112	Projects like this are a fantastic way to enhance quality of life.					No action required
113	Want the entire length built out ASAP. Please do it or we will find elected officials who will!					CoNB action item.
114	Should be part of a regional trail plan.			•		
115	Take of drainage and flood potential		•	•		
116	Expand further to San Marcos			•		
117	The NB Citizens voted long ago that they want this!					No action required
118	Please don't pave the majority of the trails.				•	
119	I am all for any improvements to and additions of outside trails. Now is the time to connect our city other than by vehicle.		•	•		
120	I knew this would happen someday and I think for the greater good					No action required
121	I think it intrudes on private property rights - The city does nothing for our end of the city - What have you done for Solms ara			•		
122	Love it! Please make this happen					No action required

City of New Braunfels
Dry Comal Creek Hike & Bike Trail
Community Meeting & Online Survey Results
August 22, 2018

NO.	COMMENTS	NOTES	SEGMENT 1	FUTURE PHASES	UNDER CONSIDERATION	RESPONSE
123	I'm in favor of the extended trail proposal and would like to see the Loop 337-Live Oak section completed as well.		•			
124	Walkability is very important to this community!		•	•		
125	Good idea - adds to similar trails in adjacent towns.					No action required
126	The most important project for the future of the city. This creek has been neglected, but it is the economic engine that has driven people and businesses to the region. It is also conveniently a great greenspace and central pedestrian/cyclist corridor.		•	•		
127	This is a MUST for the city! Trail should go all the way to 337.			•		
128	New Braunfels needs more green space!		•	•		
129	I think this will be a great improvement to increase outdoor activities.					No action required
130	I have not seen any conceptions. How would one know where to locate the concept? I understand there are meetings... Those are extremely difficult to attend with an 8 to 5 work schedule.					
131	Great project worth doing					No action required
132	I use the trails at the baseball fields often. Although I love them, I would love to see a longer trail and one that connects to downtown. I am super excited about this and the health impacts it can have on our city.		•			

City of New Braunfels
Dry Comal Creek Hike & Bike Trail
Community Meeting & Online Survey Results
August 22, 2018

NO.	COMMENTS	NOTES	SEGMENT 1	FUTURE PHASES	UNDER CONSIDERATION	RESPONSE
133	I only saw one small project that I have to question. Half way along the trail would be a "classroom". I was told that the City would be placing it in that spot to correct a bad drainage problem created by a developer. I question the idea of a "classroom" at the edge of a neighborhood due to parking problems and because there didn't seem to be any support for people or any real interesting features there. Fix the erosion problem, send the bill to the developer and invest our money in a classroom in a better spot.		•			
134	I am in full support of more trails in our area! We are desperately in need of more places to hike without having to drive to a neighboring city. New Braunfels gets so much attention for its outdoor activities but it would be great to expand that list of activities to things outside our rivers.		•			
135	I fully support the efforts and think it would add exponential value to our community.					No action required
136	I really love this idea! I think the increased property values alone will pay for this project. In my opinion, we need to go big with this and do it right. The more we invest in this natural amenity, the bigger the return on investment. I do think we need to be sure to make easy off-road connections to downtown and to Das Rec in the bond project.		•	•		

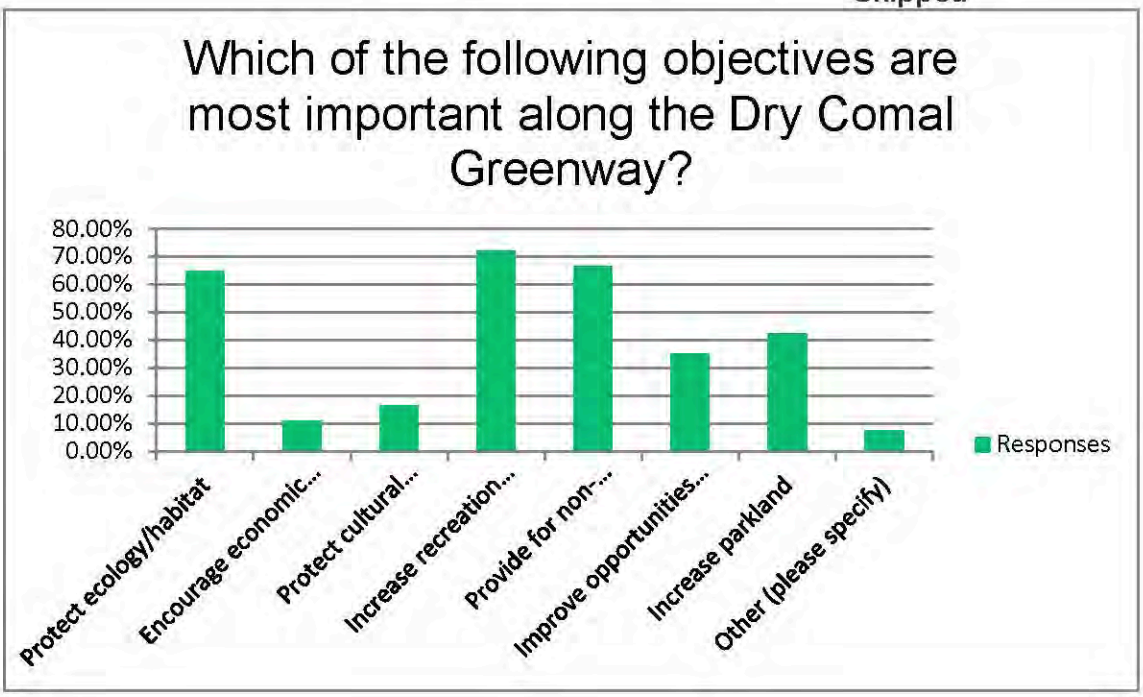
City of New Braunfels
Dry Comal Creek Hike & Bike Trail
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NO.	COMMENTS	NOTES	SEGMENT 1	FUTURE PHASES	UNDER CONSIDERATION	RESPONSE
137	This project should have been started a long time ago so I am happy New Braunfels is finally taking notice to protect and better utilize this creek. I would like to see this project end up something like Salado Greenway or Mission Reach. This has the potential to comnect to Schertz, Garden Ridge, and San Antonio. This would be a great economic development asset to attract high tech companies and jobs from Austin and San Antonio. It also will help to keep the Comal River clean and protected. This project is a no brainer that will pay many dividends in the future.					No action required
138	Love it! Constructive criticism. Phase 1 proposal is from Landa to Walnut. I heard 3 million to concrete this section. I understand the maintenance, but there is already a gravel trail there. What if we enhance the gravel trail? Wider, signage, etc. and use the larger parts of the money to buy land to extend the trail all the way to the baseball fields? Comal Trails Alliance already received grant money to extend the trail to Landa Street for the cost of $10-15k. Much cheaper than concrete and more enjoyable to run/walk/ride on.					While gravel trails are ideal for extensive running/walking/mountain biking, it is not recommended for use in flood plains and will end up costing an exorbitant amount of

Dry Comal Trail

Which of the following objectives are most important along the Dry Comal Greenway?

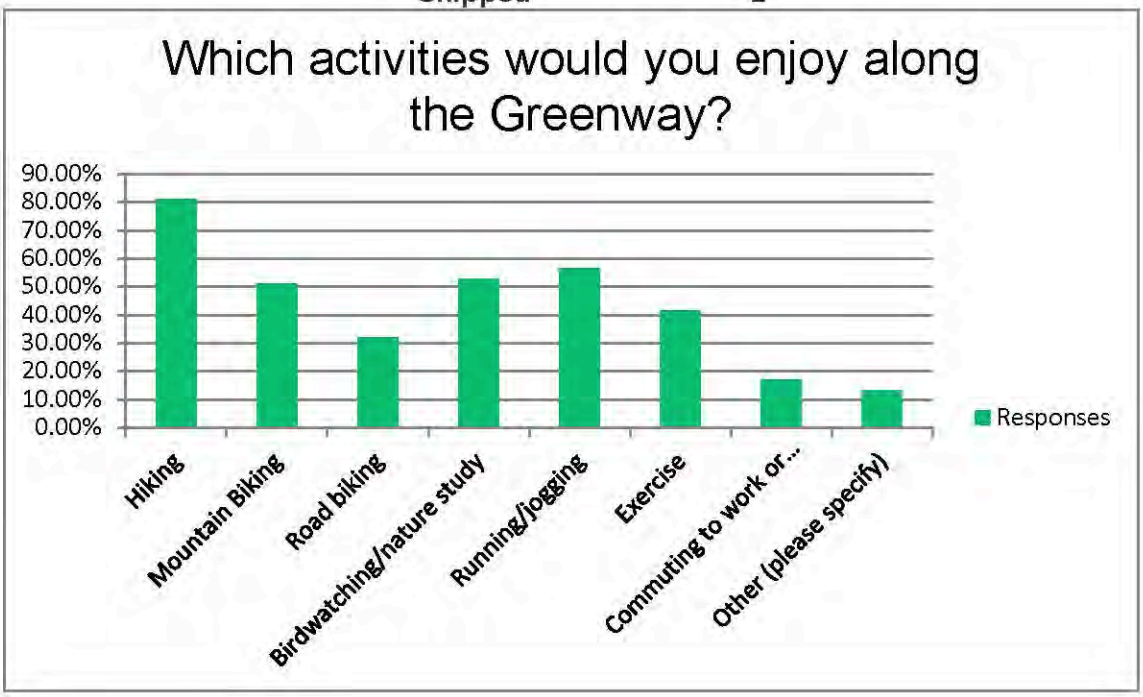
Answer Choices	Responses	
Protect ecology/habitat	64.81%	35
Encourage economic development	11.11%	6
Protect cultural resources	16.67%	9
Increase recreation opportunities	72.22%	39
Provide for non-motorized transportation	66.67%	36
Improve opportunities for outdoor education/nature study	35.19%	19
Increase parkland	42.59%	23
Other (please specify)	7.41%	4
	Answered	**54**
	Skipped	**1**



Dry Comal Trail

Which activities would you enjoy along the Greenway?

Answer Choices	Responses	
Hiking	81.13%	43
Mountain Biking	50.94%	27
Road biking	32.08%	17
Birdwatching/nature study	52.83%	28
Running/jogging	56.60%	30
Exercise	41.51%	22
Commuting to work or school	16.98%	9
Other (please specify)	13.21%	7
Answered		**53**
Skipped		**2**



Dry Comal Trail

Please give your thoughts and/or comments about the Dry Comal Greenway concept:

Answered	**42**
Skipped	**13**

Dry Comal Trail

To be included in future communications regarding the Dry Comal Greenway, please give us your email address:

Answered	**40**
Skipped	**15**

8.0 Appendix



RABA KISTNER ENVIRONMENTAL

Raba Kistner
Environmental, Inc.
12821 W. Golden Lane
San Antonio, TX 78249

P.O. Box 690287
San Antonio, TX 78269-0287

www.rkci.com

P 210 :: 699 :: 9090
F 210 :: 699 :: 6426
TBPE Firm F-3257

August 15, 2018

Texas Historical Commission
Mark Wolfe
Archaeology Division
P.O. Box 12276
Austin, Texas 78711-2276

RE: Request for State Historic Preservation Office Consultation: Dry Comal Creek Hike and Bike Trail, New Braunfels, Comal County, Texas.

Mr. Wolfe:

Please find attached a Request for State Historic Preservation Office (SHPO) Consultation for the Dry Comal Creek Hike and Bike Trail in New Braunfels, Comal County, Texas. **Raba Kistner Environmental, Inc.** (**RKEI**) was contracted by Ford, Powell & Carson Architects & Planners, Inc., on behalf of the City of New Braunfels, to initiate consultation with the SHPO. As the proposed undertaking is owned by the City of New Braunfels, a political subdivision of the State, the proposed project is subject to review under the Antiquities Code of Texas (Texas Natural Resources Code, Title 9, Chapter 191). Furthermore, the project has the potential to fall under the review of Section 106 of the National Historic Preservation Act (NHPA) (16 United States Code 470) and its implementing regulations (36 Code of Federal Regulation 800).

The proposed undertaking will consist of a linear hike and bike trail that will have shared-use paths, clear and safe connections to local destinations, and links to neighborhoods from the city core to the city's edge. The trail, as envisioned from the New Braunfels' 2010 Strategic Master Plan-Trail Component (Hike and Bike Trail Plan), will build off existing trail nature infrastructure and new public infrastructure investments being made in downtown New Braunfels' over the last few years by connecting to sidewalks along Walnut Avenue, Landa Street, and road improvements along Highway 337 and 46, as well as new mixed-use development in the downtown area (See **Exhibit A**, attached). The proposed undertaking is approximately 1 mile in length, with depth of impacts currently unknown.

A review of current aerial photography depicts the APE as generally located within the highly urbanized setting of downtown New Braunfels, characterized by community parks, commercial businesses, and

residential development. An undeveloped foot trail is also visible on current aerial photography. The dirt path connects North Walnut Avenue to North Guenther Avenue and Landa Street by paralleling the northeastern boundary of a moderately dense riparian tree line and the Dry Comal Creek drainage. Topography of the proposed trail is generally level, with a slight slope down towards the banks of Dry Comal Creek. Soils within the project area are mapped as Oakalla silty clay loam with 0 to 2 percent slopes, frequently flooded (**Ok**), Krum clay, with 0 to 1 percent slopes (**KrA**), and Seawillow clay loam, 3 to 8 percent slopes (**SeD**). Geology is mapped as Terrace deposits (Qt) of Pleistocene and Holocene-age.

In order to determine the specific setting and context of the proposed undertaking, **RKEI** conducted a desktop review and background literature search of the project area. The desktop review determined that no known archaeological sites are recorded within or immediately adjacent to (within 300 feet of) the APE; however, one historical marker is located at the northeastern terminus of the proposed trail system. Further review identified 19 archaeological sites, one National Register District, nine National Register Properties, an estimated 31 additional Historical Markers, and one cemetery within a 1-mile radius of the proposed trail system. **Table 1** details the cultural resources identified during the desktop review.

Table 1. Cultural resources located within 1-mile of the APE.

Resources Name	Distance from APE	Brief Description	Eligibility Determination
41CM25	0.25-mile/northwest	A middle Archaic through Neoarchaic long-term campsite or base camp with human burials, tools, burned rock, and ceramics. Cultural deposits extend from the surface to at least 150 cmbs.	Eligible (2006); SAL-listed (1990)
41CM90	0.46-mile/northeast	A prehistoric burnt rock and lithic scatter with lithic tools present. Cultural material depths unable to be determined from Atlas.	No eligibility determination listed on Atlas
41CM126	0.68-mile/west	An open prehistoric campsite with two biface fragments, burnt rock, cores, and primary and secondary flakes. No diagnostic cultural material observed. Site noted as disturbed upon discovery. No further work recommended. No subsurface investigations have been conducted.	No eligibility determination listed on Atlas
41CM167	0.42-mile/north	A possible open campsite with Late Archaic component. Early Archaic or Paleo materials may be located on the lake bottom. Bifaces and stone tool fragments widespread throughout site. As archaeological research has progressed, 41CM167 has become a generic trinomial form all of the archaeological sites of Landa Park and Golf Course.	Eligible (2006)
41CM172	0.31-mile/northeast	A possible multi-component prehistoric occupation site and lithic scatter comprised of burned rock and interior and exterior lithic flakes. Extensive disturbances noted due to the construction and landscaping of Landa Park Golf Course. Assessed as having a high probability of deeply buried intact deposits. No subsurface investigations conducted.	Eligible (1987); SAL-listed (1987)
41CM173	0.34-mile/northeast	A prehistoric habitation site with lithic tool fragments, flakes, cultural shatter, fire-cracked limestone, and burned bone. Cultural material deposits extend to at least 80 cmbs per.	Undetermined (2004); eligible (1987); SAL-listed (1987)
41CM174	0.46-mile/northeast	A possible Archaic habitation or multi-component prehistoric site with hearths and burned rocks, snail shells, and a dense scatter of lithic tools, flakes, and cultural shatter. A natural outcrop of chert with tested cobbles and primary flakes is located north of the burned rock concentration. Some material is believed to represent secondary deposits, but the site was assessed as having a strong possibility of deeply buried intact cultural deposits. Cultural material extends from the surface to 350 cmbs.	Eligible (1987); Undetermined (2005); SAL-listed (1987)
41CM175	0.67-mile/northwest	A multi-component prehistoric occupation site and lithic scatter with projectile points and other bifacial tools, debitage, faunal bone and mussel shell. Adversely impacted by water treatment plant construction prior to 1987, as well as wave action of Spring Lake. Cultural material deposits extend from the surface to 140 cmbs.	Eligible (1987); SAL-listed (1987)

Resources Name	Distance from APE	Brief Description	Eligibility Determination
41CM176	0.52-mile/northwest	A late prehistoric open campsite with hearths, living surface, lithic debitage, ceramics, and bison and deer bone, some of which is cut and/or burnt. Cultural deposits extend from 20 to 30 cmbs.	Eligible (1987); SAL-listed (1987)
41CM177	0.39-mile/north	An early to Middle Archaic open campsite with debitage, hearths, and burned rock. Cultural deposits extend from the surface to 70 cmbs.	Eligible (1987); SAL-listed (1987)
41CM183	058-mile/north	A historic refuse burning pit dating to ca 1920s–1940s. Intact ash lenses observed. Faunal remains, glass bottle fragments, ceramic, and unidentified metal observed. Largely destroyed by unmonitored excavations by phone company. No further work recommended. Cultural material deposits extend from 0 to 70 cmbs.	No eligibility determination listed on Atlas
41CM184	0.65-mile/northwest	A multi-component site: the prehistoric component is comprised of human bone, numerous unspecified point types, a conch shell ornament, an incised pebble, and possible fishing sinkers; the historic component is comprised of the Klappenbach, George House, constructed as a two-room dog trot-style home in 1844 of limestone and wood. George Klappenbach was one of the early mayors of New Braunfels. Cultural material deposits extend from the surface to ca. 1.5 mbs.	Undetermined (2005)
41CM190	0.65-mile/north	A late Paleo and Archaic open campsite with tools, modified flakes, debitage, at least one hearth, and burned rock. Cultural deposits extend from the surface to 50 cmbs.	Eligible (1993); SAL-listed (1990)
41CM201	076-mile/northwest	No data available on Atlas	No eligibility determination listed on Atlas
41CM205	0.59-mile/northwest	An open campsite and burned rock midden with lithic debitage. Cultural deposits extend from the surface to 100 cmbs.	Undetermined (2005); Eligible (1994); SAL-listed (1994) and 2016 (city-owned portions)
41CM221	0.62-mile/northwest	An occupation site and lithic workshop with projectile points, bifaces, debitage, fire-cracked rock, bone, and mussel shell. Cultural deposits extend from the surface to75 cmbs.	No NR eligibility listed on Atlas; SAL-listed (2016)
41CM289	0.89-mile/northwest	A prehistoric lithic scatter. No diagnostic cultural material observed. Cultural material deposits extend from the surface to 15 cmbs.	No eligibility determination listed on Atlas
41CM319	0.91-mile/southeast	A historic brick footing pier on the site of the first African-American school in New Braunfels. Mixed deposits of historic construction debris and late 19th/early 20th century household-type refuse and modern refuse observed. Cultural material deposits extend from the surface to 72 cmbs.	Ineligible (2008)
41CM408	0.45-mile/southwest	A historic heating facility made out of fire brick and corrugated metal, perhaps representing a sugarcane syrup reduction facility. Historic trash present on surface, as well as a lookout platform and well.	No eligibility determination listed on Atlas
Comal Power Plant	0.11-mile/west	Classical Revival-style power plant	National Register District
Brauntex Theater	0.22-mile/east	Modern-style brick building constructed in 1942	National Register Property
Comal County Courthouse	0.29-mile/west	Romanesque-style limestone building constructed in 1897–1898	National Register Property
Comal Hotel and Klein-Kuse House	0.35-mile/east	Late-Victorian- and Other-style masonry hotel constructed in 1900–1901 and vernacular German Texan fachwerk salt-box roof cottage influenced by the Greek Revival-style	National Register Property
First Protestant Church	0.45-mile/east	Gothic-style church constructed of cut limestone in 1875	National Register Property
Groos, Carl W.A., House	0.40-mile/east	Classical Revival-style home constructed in 1871 meeting the historic events criteria for inclusion within the NRHP	National Register Property
Holz--Forshage--Krueger Building	0.23-mile/southeast	1908 brick building meeting the architectural criteria for listing in the National Register of Historic Places	National Register Property
Hotel Faust	0.43-mile/east	1929 masonry-faced building meeting Historic and Architectural criteria.	National Register Property
Klein, Stephen, House	0.35-mile/east	1846 one-story stuccoed fachwerk cottage that typifies residences built by or for German settlers during the Texas Republic era to the 1870s.	National Register Property
Lindheimer	0.69-mile/east	1852 one-story and loft stuccoes limestone rubble fachwerk "double"	National Register Property

Resources Name	Distance from APE	Brief Description	Eligibility Determination
House		house with salt box profile that typifies the structures constructed by or early German settlers in Texas.	
Church of Saints Peter and Paul, The	0.02-mile/north	Historical Marker marking the location and history of the Church of Saints Peter and Paul from 1847 to the marker's placement in 1976. Church located 0.05-mile east of project area.	–
Historical Markers	1-mile/radius	An additional estimated 31 Historical Markers are located within a 1-mile radius of the project area	–
CM-C069	0.90-mile/south	New Braunfels Cemetery, also known as Old New Braunfels Cemetery, founded in 1845. Contains 753 marked graves and hundreds of unmarked graves.	–

In addition to cultural resources, the desktop review also determined that no cultural resources investigations have been conducted within boundaries of the proposed project area. Previously conducted cultural resources investigations within 1-mile of the prosed undertaking include linear and area pedestrian surveys, archaeological monitoring, and archaeological testing. Investigations were done in advance of roadway construction or improvements, drainage improvements, utility installations, or modifications to Landa Park and Golf Course. The Lower Colorado River Authority (LCRA) sponsored many of the utility and land-use-(vegetation clearance, et cetera) associated archaeological investigations.

The earliest historic maps of the New Braunfels area depict the setting of the undertaking as within a large tract of land that was titled to Juan Veramendi (also known as Juan Martin de Veramendi) in 1831. By 1868, the area had been divided into four unidentified tracts with no depiction of build or structure improvements. However, an 1874 map continues to depict the area as part of the Veramendi property. An 1881 Bird's Eye map depicts the general setting of the northeastern extent of the proposed trail with a small number of building present, south of Landa Street (previously Prince Road and/or Country Road). The 1881 map also illustrates the railroad crossing at the northeastern terminus of the trial system, as well as Landa Lane.

A review of Sanborn Fire Insurance Maps from 1902 to 1922 depicts approximately 0.25 mile of the northeastern extent of the proposed undertaking in detail. Gradual development associated with Landa Industries and a new line of the I&GN Rail Road is clearly depicted, 345–feet west of the northeastern project terminus. No buildings or structures are depicted within the APE on the Sanborn maps.

A review of historic aerial photography dating as early as 1938 illustrates the general area of the proposed undertaking. Although the general setting of downtown New Braunfels had progressively changed from mix of residential housing and agricultural farmland to an urbanized community, the immediate area of the proposed trail system has remained relatively unchanged for nearly 80 years. From 1938 to 1958 the Dry Comal Creek drainage consisted of a meandering drainage flanked by moderately dense to dense riparian vegetation. Residential housing dominated the area south of the creek, while the northern terraces remained mostly as cultivated fields. By 1969 urban development began to encroach from the north; however, the area between the creek bank and the railroad tracks remained as agricultural fields. It was not until the early 2000's that commercial development began near the southwestern end of the proposed trail system. Today, the area immediately north of the eastern half of the proposed trail system remains as a cultivated field. One potentially historic-age building, which first appears on historic aerial imagery in 1958, is located near the center of the proposed trail system near the dead end of North Guenther Avenue. It is unclear if the proposed undertaking will directly or indirectly impact the building.

Based on the desktop review, **RKEI** recommends an intensive cultural resources survey for the proposed undertaking based on its proximity to Dry Comal Creek and lack of previous archaeological investigations. The literature search determined that 19 archaeological sites are located within a 1-mile radius of the proposed undertaking, many of which share a similar topographic setting to the proposed trail system. Furthermore, a review of historic maps and aerial photography determined that the project area has been moderately impacted by urban development, but has remained relatively unchanged for the past 80 years. As such, the proposed trail system has the potential to contain intact, buried cultural deposits.

Please review the attached Request for SHPO Consultation form, as well as **Exhibit A**. Please direct questions or requested for additional information to me at rward@rkci.com, or 210.633.7075. I look forward to your response in the matter, as well as working with you in future.

Thank you so much for your time.



Rhiana D. Ward, M. A.
Project Archaeologist
Raba Kistner Consulting, Inc.
12821 West Golden Lane
San Antonio, Texas 78249
Phone: 210.699.9090, ext. 3685
Fax: 210.699.6426
Cell: 210.633.7075

Exhibit A
Project Area Location Maps

Project No. ASF18-097-00
August 13, 2018

12821 W. Golden Lane
San Antonio, TX 78249
P.O. Box 690287
San Antonio, TX 78269-0287
www.rkci.com

P 210.699.9090
F 210.699.6426
TBPE Firm F-3257

Mr. Nathan Garza
Capital Improvements Project Manager
City of New Braunfels
550 Landa Street
New Braunfels, Texas 78130

RE: Phase I Environmental Site Assessment
Dry Comal Trail
New Braunfels, Comal County, Texas

Dear Mr. Garza:

Raba Kistner Environmental, Inc. (RKEI) is pleased to submit the attached Phase I Environmental Site Assessment (ESA-I) report for the above-referenced property. This report was prepared on behalf of the City of New Braunfels (CLIENT) and may not provide adequate information for other purposes or parties. If other parties wish to rely on this report, please have them contact us so that a mutual understanding and agreement of the terms and conditions for our services can be established prior to their use of this information. Reliance on the information provided in this ESA-I report for the purposes of conducting "All Appropriate Inquiry" (*AAI*) is subject to the conditions in *ASTM E 1527-13 §4.6* describing the continued viability of an ESA-I.

We appreciate the opportunity to be of professional service to you on this important project. Should there be any questions or additional information required, please contact our office at your earliest convenience.

Very truly yours,

RABA KISTNER ENVIRONMENTAL, INC.

Kendra R. Brownlow
Environmental Professional

Brian D. Strye, M.S.
Environmental Project Manager

KRB/BDS/srw

Attachments

Copies submitted: Above (1 Electronic PDF Copy)

PHASE I
ENVIRONMENTAL SITE ASSESSMENT

For

DRY COMAL TRAIL
NEW BRAUNFELS, COMAL COUNTY, TEXAS

Prepared for

CITY OF NEW BRAUNFELS
New Braunfels, Texas

Prepared by

RABA KISTNER ENVIRONMENTAL, INC.
San Antonio, Texas

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RABAKISTNER

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1.0 EXECUTIVE SUMMARY

As authorized by the City of New Braunfels (CLIENT), **Raba Kistner Environmental, Inc. (RKEI)** has completed a Phase I Environmental Site Assessment (ESA-I) for a proposed Dry Comal Creek Trail consisting of approximately one mile in length located between Landa Street and North Walnut Avenue in the downtown sector of the City of New Braunfels, Comal County, Texas; (hereinafter referred to as the SITE). The proposed linear trail park would consist of shared-use paths, clear and safe connections to local destinations, and links to adjoining neighborhoods. The trail will begin at Landa Street and run southwest connecting to North Walnut Avenue.

The ESA-I was conducted on behalf of CLIENT and the City of New Braunfels in accordance with ***RKEI** Proposal Number PSF18-216-00, dated May 18, 2018*. The performance of this study was conducted in general accordance with procedures set forth in the following guidance document: *American Society of Testing and Materials (ASTM) Practice E 1527-13, Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The limitations and exceptions of this assessment are discussed on ***Section 2.3*** of this report.

An **RKEI** professional conducted the SITE reconnaissance on July 30, 2018. The findings, opinions, conclusions, and recommendations developed during this ESA-I are presented as follows:

At the time of reconnaissance activities, the SITE was observed as undeveloped land majorly comprised of portions of a crushed granite trail.

During SITE reconnaissance activities, **RKEI** did not observe evidence of the following: bulk storage of hazardous materials and/or petroleum products in underground or aboveground storage tanks (USTs/ASTs); process wastewater generation; oil or gas wells; hazardous material usage; stained soils or stressed vegetation; suspect polychlorinated biphenyls (PCBs) or other features on the SITE that would suggest potential *recognized environmental conditions* associated with the SITE.

A search of federal (U.S. Environmental Protection Agency [EPA]) and state (Texas Commission on Environmental Quality [TCEQ]) environmental regulatory databases by GeoSearch (environmental database source), reported 56 regulated facility findings within the standard 1.0-mile search radius of the SITE, as defined by the *ASTM Standard E 1527-13, All Appropriate Inquiry (AAI)*. The SITE is not identified on any of the regulatory databases searched. The significant *historical recognized environmental conditions* are described as follows.

- New Braunfels Smokehouse – This facility is located south adjacent to the SITE at North Guenther Avenue. No evidence of any *recognized environmental conditions* to the SITE were encountered through the research of records for this facility. A release was reported on December 11, 1989 after the removal of one 250-gallon (diesel) and one 1,000 gallon (unleaded gasoline) USTs. A total of approximately 240 cubic yards of affected soils were disposed of at a landfill and clean fill material was replaced within the former tankhold. Soil and groundwater sampling events occurred in 1991 and 1995 indicating Total Petroleum Hydrocarbons (TPH) and Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) concentrations and were ultimately confirmed to have been below action levels for soils. Analytical groundwater sample results

from a monitor well indicated TPH and BTEX concentrations as below detection limits (ND) as of 1995. Groundwater was recorded at a depth of 27 feet below ground surface (bgs). Historic soil impact appeared to be confined within the clay soils at approximately 32 feet and localized within the former tankhold. No further remedial action was deemed necessary according to a September 8, 1995 Texas Natural Resource Conservation Commission (TNRCC) letter regarding the subsurface release of gasoline at the facility. Due to the regulatory closure and remedial actions that occurred at this facility, impacts to the SITE are unlikely. Files were obtained from the TCEQ and are further discussed within ***Section 5.3***.

This facility is also reported to be registered under the following programs:

- Emergency Response Notification System (ERNSTX);
- Facility Registry System (FRSTX);
- Petroleum Storage Tank (PST);
- Leaking Petroleum Storage Tank (LPST) and;
- Tier II Chemical Reporting Program Facilities (TIER II).

- Landa Plaza Shopping Center – This facility is located approximately 0.228 miles northwest of the SITE. This finding is reported to be registered under the Industrial and Hazardous Waste Corrective Action Sites (IHWCA) and Innocent Owner Program (IOP) programs. According to an *Approval of Closure Report* letter from the TCEQ dated September 21, 2010, the facility was reported to have operated as a shopping center consisting of a take-out restaurant, dry cleaners, photographic film processing facility, pharmacy, and other retail stores. Soil and groundwater samples were collected revealing TPH in one soil boring (at 24-26 feet bgs) and one groundwater sample at the northwest corner of the facility. It was reported that the TPH concentration was due to an adjacent former gas station with LPST history (Nos. 99614 and 94953). Due to the petroleum hydrocarbon impact to this facility, Landa Plaza Partners GP, LLC, with Terracon Consultants Inc, submitted an application to the TCEQ IOP on June 22, 2010. Results revealed concentrations of tetrachloroethene (PCE), arsenic, lead, and mercury detected in soils above residential Tier 1 soil-to-groundwater Protective Concentration Level (PCL). Samples containing highest amounts of PCE, arsenic, lead, and mercury were further analyzed for synthetic precipitation leaching procedure (SPLP) and resulted to be less than residential Tier 1 levels. Groundwater sampling indicated that metals, Volatile Organic Compounds (VOCs) and semi-VOCs were less than Tier 1 residential PCL. Furthermore, concentrations of contaminants recorded at this facility confirm that all levels detected are below the action levels established by the TCEQ, thus closure of the facility was accepted. Impacts to the SITE from this facility are unlikely due to regulatory closure and the low concentrations of detected contaminants encountered. Files were obtained from the TCEQ and are further discussed within ***Section 5.3***.

Based on regulatory status, remedial activities, and evidence of the unlikelihood of migration of constituents of concern detected, **RKEI** considers impact to the SITE from these facilities unlikely.

Based on the information reviewed, there was no evidence that the subject property is currently under federal or state environmental enforcement action.

RKEI found no evidence to suggest the subject property is subject to any environmental liens and/or activity and use limitations (AULs) that would affect the SITE from an environmental standpoint.

The subject property reconnaissance and regulatory database review generally revealed no evidence of environmental contaminant *vapor intrusion*, *controlled, historical or recognized environmental conditions*.

Based on the information developed as the result of ESA-I activities, further environmental assessment activities are not recommended for the SITE at this time.

This executive summary is an overview only and should not be relied upon as the sole source of the reported results without first reading the full contents of this report, including appended materials.

2.0 INTRODUCTION

2.1 Purpose

The purpose of this ESA-I is to define good commercial and customary practice in the United States of America for conducting an environmental site assessment of a parcel of commercial real estate with respect to the range of contaminants within the scope of *Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (42 U.S.C. §9601)* and petroleum products. The ESA-I process is generally intended to permit the *user* to satisfy one of the requirements to qualify for the *innocent landowner, contiguous property owner,* or *bona fide prospective purchaser* limitations to CERCLA liability a.k.a. *"landowner liability protections,"* or *"LLPs"*: That is, to provide documentation that *"appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice"* as defined in *42 USC § 9601(35) (B)*.

Information about the SITE regarding recognized past or current uses of hazardous substances or evidence of contaminants within the scope of *CERCLA* and petroleum products is reported herein and is subject to the limitations, terms, and conditions described in the following section.

2.2 Scope of Services

The ESA-I was conducted on behalf of CLIENT in accordance with ***RKEI*** *Proposal Number PSF18-216-00, dated May 18, 2018*. The performance of this study was conducted in general accordance with procedures set forth in the following guidance document: *ASTM Practice E 1527-13*. Specifically, the scope of work for the ESA-I include the following components as a minimum: (1) Interviews with past and present owners if ascertainable; (2) Interviews with local government officials; (3) Review of historical sources of information; (4) Review of federal, state, tribal, and local government records; (5) Site reconnaissance by an Environmental Professional; and (6) Report preparation.

2.3 Limitations and Exceptions of Assessment

The following key terms utilized in this ESA-I study report and defined in accordance with *ASTM-13* guidance. These terms are not intended to include *de minimis* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

- A *recognized environmental condition (REC)*, as defined by *ASTM*, is the presence or likely presence of *any hazardous substances or petroleum products on the* SITE *under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products* in, on, or at a *property*.

- A *controlled recognized environmental condition (CREC)* is a *REC* resulting from a past *release of hazardous substances or petroleum products* that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required land use controls, restrictions or limitations.

- A *historical recognized environmental condition (HREC)* is a past *release* of any *hazardous substances or petroleum products* that has occurred in connection with the subject property and has been addressed to the satisfaction of the applicable regulatory authority. The SITE may also meet unrestricted land use criteria established by a regulatory authority, without subjecting the SITE to any required controls.

- *Vapor encroachment* is the likely presence of *chemical of concern (COC)* vapors in the vadose zone of the *target property* caused by the release of contaminated soil or groundwater either on or near the SITE.

In general, the ESA-I is a risk management process. It is intended to reduce environmental risk, not wholly eliminate it. The conclusions and recommendations of this ESA-I are based upon: (i) Research and evaluation of readily available and practically reviewable documents and databases; (ii) Interviews with persons knowledgeable about the SITE; and (iii) reconnaissance by an Environmental Professional. **RKEI** makes no warranty, expressed or implied, as to the accuracy or completeness of the information provided by the various governmental regulatory agencies and other referenced information sources used during this ESA-I. Other legal obligations with regard to hazardous substances or petroleum products discovered within the SITE are beyond the scope of work for this study. This ESA-I does not include environmental sampling or testing of any kind. Furthermore, the location or identification of undocumented buried tanks or concealed wastes, hidden conditions, and subsurface conditions are not included.

This assessment was conducted at the request of CLIENT utilizing methods and procedures consistent with good commercial or customary practices designed to conform to industry standards. The independent conclusions represent the best professional judgment of the Environmental Professional based on the conditions that existed and the information and the data available to **RKEI** during the course of this assignment. Factual information regarding operations, conditions and test data provided by CLIENT, owner, or their representative has been assumed to be correct and complete.

2.4 Special Terms and Conditions

No special terms or conditions were applicable to this ESA-I report.

2.5 User Reliance

This report, prepared on behalf of CLIENT, may not provide adequate information for other parties. If other parties wish to rely on this report, please have them contact us so that a mutual understanding and agreement of the terms and conditions for our services can be established prior to their use of this information. Reliance on the information and conclusions presented in this report by any other parties is not authorized by **RKEI**.

RKEI will not extend reliance or liability on the information provided in this ESA-I report beyond *ASTM E 1527's* "*shelf life*" requirements of one year unless an update assessment has been performed by **RKEI** after 180 days per *ASTM E 1527-13 §4.6* describing the continued viability of an ESA-I.

Moreover, due to requirements developed by the U.S. Small Business Administration (SBA) as a result of SOP50-10[5] effective June 2008 (revised March 2009), **RKEI** cannot extend reliance on the ESA-I report to the SBA or its development company loan programs (a.k.a. Certified Development Company [CDC]), should CLIENT seek funding through the SBA or its CDC under an SBA 7(a) and 504 loan program.

3.0 PROPERTY DESCRIPTION

3.1 Property Location

As depicted on the Area Location Map (***Figure 1 – Project Location Map***), the SITE is an approximate one-mile linear area along Comal Creek for the proposed Dry Comal Creek Trail in the downtown sector of the City of New Braunfels, Comal County, Texas. The SITE is accessible from the north by Landa Street, from the southwest by North Walnut Avenue, and from the east by North Guenther Avenue rights-of-way.

3.2 Legal Description

According to the Comal Appraisal District *Map Search* (http://taxweb.co.comal.tx.us/mapSearch/?cid=1), the SITE is comprised of 5 parcels of vacant land. These are identified within the following **Table 1**.

TABLE 1 – SITE PARCELS

Parcel Number	Owner	Legal Description	Acres
362879	TC Town Creek Texas LP	*TOWN CREEK PHASE 1, BLOCK 24, LOT 1*	3.1800
71256	TC Town Creek Texas LP	*A-2 SUR-1 J M VERAMENDIS, ACRES 17.356*	9.5560
71254	TC Town Creek Texas LP	*A - 2 SUR- 1 J M VERAMENDI, ACRES 30.71, PT W LOEPE 31.94 AC TR*	30.7100
71255	TC Town Creek Texas LP	*A- 2 SUR- 1 J M VERAMENDI, ACRES 1.135*	1.1350
71350	Colombus Club Assn NB	*A- 2 SUR- 1 J M VERAMENDI*	7.0900

No record of environmental lien or land use restrictions for the SITE was identified within the Comal County Appraisal District's records and the environmental regulatory database (***Section 5.3***) of this ESA-I report.

3.3 Current Use of Property

At the time of the reconnaissance activities, **RKEI** observed the SITE as undeveloped land. A majority of the SITE consists of a crushed granite trail.

3.4 Description of Structures, Roads, or Other Improvements

No structures, roads or other improvements were observed on the SITE. Portions of the SITE were improved with a crushed granite trail with some drainage features alongside.

Photographs taken during the SITE reconnaissance are provided as ***Attachment A***.

3.5 Current Use of Adjacent Properties

Observed use and condition of adjacent properties includes the following: residential and undeveloped land to the north; and commercial and residential to the south, east, and west. Dry Comal Creek runs adjacent east and south along the SITE.

Evidence of *REC*s was not observed in connection with the adjacent properties.

4.0 USER PROVIDED INFORMATION

The purpose of the information is to describe tasks to be performed by the *user* that will assist in the identification of possible *RECs* in connection with the SITE. The *user* is defined by *ASTM E 1527-13* as: The party seeking to use Practice *E 1527* to complete an environmental site assessment of the property. A *user* may include, without limitation, a potential purchaser of *property*, a potential tenant of *property*, an *owner of property*, a lender, or a *property* manager. The *user* has specific obligations for completing a successful application of this Practice as defined in *ASTM E 1527-13 §6.0* describing the *user's* responsibilities.

The *ASTM E 1527-13 user* questionnaire was completed on August 8, 2018 by Mr. Matthew Eckmann, City of New Braunfels Facilities and Real Estate Manager. A copy of the completed questionnaire is included as ***Attachment B***.

4.1 Environmental Liens

The *user* is not aware of any environmental cleanup liens against the property that are filed or recorded under federal, state or local law.

4.2 Activity and Land Use Limitations

The *user* is not aware of any or AULs, such as engineering controls, land use restrictions, or institutional controls that are in place at the SITE and/or have been filed or recorded in a registry under federal, state, or local law.

4.3 Specialized Knowledge

The *user* reported no specialized knowledge or experience related to the SITE. The *user* reported no specialized knowledge or experience related to nearby properties.

4.4 Property Valuation Reduction

The *user* reported "NA" to that of the purchase price of the SITE reflecting fair market value.

4.5 Commonly Known or Reasonable Ascertainable Information

The *user* reported having no commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases, nor having knowledge of spills or other chemical releases that have taken place at the SITE. The *user* was not aware of any environmental cleanups that may have taken place at the SITE.

4.6 Presence or Likely Presence of Contamination

The *user* reported no knowledge of the presence or likely presence of contamination at the SITE.

5.0 RECORDS REVIEW

5.1 Physical Setting

This section presents information pertaining to soil and geologic/hydrogeologic conditions below the Dry Comal Creek Trail project that was developed based on review of readily ascertainable published information, internal file review activities, and limited site reconnaissance.

5.1.1 Topography

As discussed herein, the proposed Dry Comal Creek Trail comprises approximately one mile in length, extending along the northwest bank of the Dry Comal Creek southwest from State Highway 46 (Landa Street) to North Walnut Avenue. According to the published 7.5-minute series topographic maps for the project area produced by the United Stated Geological Survey (USGS) and most recently updated in 2013 (*New Braunfels West and New Braunfels East, Texas Quadrangles)*, the surface elevation of the SITE essentially follows the existing topographic contour line of 620 feet relative to mean sea level, but gently slopes toward the southeast. Based on our review, it appears that the full extent of the proposed project is located within the 100-year floodplain. The proposed trail location was overlain on excerpted portions of the referenced topographic maps containing approximate floodplain limits and is provided herein as ***Figure 2 – USGS Topographic Map.***

5.1.2 Soil Cover

Generally speaking, soil associations are conterminously mapped landscapes having a distinctive proportional pattern of soils in which individual soil series having similar physical properties are grouped. A soil series is a more specific classification in which the major soil horizons encountered are similar in thickness, arrangement and other important characteristics affecting the soil's behavior in the natural, undisturbed landscape. Soils of a given series can differ somewhat in their surface soil textures, slopes, stoniness, drainage and other characteristics that affect their use. According to textural differences observed in surface soil layers, separations called soil types are made within a soil series. Soil types are further divided into phases which indicate features (e.g., slope, degree of erosion, number and size of stones, etc.) that offer practical descriptions about their potential use. Soil types and phases together are utilized to depict soil survey mapping units which form the basis of the following discussion.

According to published information contained in the GeoSearch *Physical Setting Maps Report* ***(Attachment C)*** and obtained from the *Soil Survey of Comal and Hays Counties Texas* published by the United States Department of Agriculture Soil Conservation Service *(June 1984)*, portions of the proposed hike and bike trail traverse four general soil associations as follows: (i) Oakalla silty clay loam (Ok), 0 to 2 percent slopes, frequently flooded; (ii) Krum clay (Kra), 0 to 1 percent slopes; (iii) Seawillow clay loam (SeD), 3 to 8 percent slopes; and Lewisville silty clay (LeB), 1 to 3 percent slopes. The area where the proposed trail crosses these mapped soil areas is presented on the attached ***Figure 4 – Soils and Geology Map***. Soil types mapped throughout the SITE may be generally classified as deep, well to moderately well-drained silty clay and clay loam that formed in calcareous alluvium (i.e., stream deposits). The online database maintained by the United States Department of Agriculture National

Resource Conservation Service (*http://websoilsurvey.nrcs.usda.gov/app/*) was reviewed on July 24, 2018 and contains the following description of the referenced soil types:

- *Ok – The Oakalla series consists of silty clay loam that is well drained with a negligible runoff class. Ok occurs within flood plains and composed from loamy alluvium derived from limestone. This unit consists of 90 percent Oakalla and 10 percent minor components of Oakalla, occasionally flooded, Dev, Krum, and unnamed hydric soils.*
- *KrA – The Krum series consists of clay that is well drained. KrA occurs within stream terraces and composed from clayey alluvium of Pleistocene age derived from mixed sources. This unit consists of 85 percent Krum and 15 percent of minor components.*
- *SeD – The Seawillow series consists of clay loam that is well drained. SeD occurs within stream terraces and composed from loamy alluvium of quaternary age derived from mixed sources. This unit consists of 85 percent of Seawillow and 15 percent minor components.*
- *LeB – The Lewisville series consists of silty clay that is well drained with a low runoff class. LeB occurs within stream terraces and composed from calcareous clayey alluvium derived from mudstone.*

According to published information, soil units range in thickness from approximately 5 to 6+ feet, overlying calcareous stream terrace deposits. Observations made in conjunction with SITE reconnaissance activities are consistent with published information.

5.1.3 Near-Surface Geology

According to the *Geologic Atlas of Texas, San Antonio Sheet (1983)* and information provided in the GeoSearch *Physical Setting Maps Report* ***(Attachment C)***, an alluvial apron (e.g., Quaternary-age fluviatile terrace deposits [Qt]) comprises near-surface geology along the extent of the Dry Comal Creek and adjacent areas throughout Comal County. The Qt deposits are unconsolidated, underlie the full extent of the proposed hike and bike trail, and are generally comprised of varying proportions of clay, silts, sands, and gravels that occur as the result of historical deposition within the Comal River basin, including associated creeks and tributaries. Geologic information contained in the online database maintained by USGS (*https://mrdata.usgs.gov/geology/state/sgmc-unit.php?unit=TXQt;0*) provides the following information pertaining to the Qt deposits:

> Terrace deposits – *"Sand, silt, clay, and gravel in various proportions, with gravel more prodominent in older, higher terrace deposits. Locally indurated with calcium carbonate (grai) in terraces along streams…In upland regions (Rolling Plains, Edwards Plateau, etc.) unit includes fluvial terrace deposits, undivided. Light-brown, reddish-brown, gray, or yellowish-brown, gravelly quartz and lithic sand and silt to sandy gravel (Moore and Wermund, 1993)."*

Near-surface fluviatile terrace deposits in the project area (i.e., Qt) are directly underlain by relatively impermeable clays and marls of the Taylor Marl formation (Kknm). Locally, the Kknm consists of Cretaceous-age clay and chalky limestone with interbedded calcareous shale to depths on the order of several hundred feet. The rock units comprising the Kknm are generally not known to host caves, sinkholes, or other dissolution (karst) features typically associated with older limestone rock units (i.e., Edwards Limestone) exposed at ground surface within 1-2 miles northwest of the SITE. A regional

geologic map depicting the mapped extents of near-surface geologic formations in addition to the proposed hike and bike trail configuration is provided on the attached ***Figure 4***. Observations made in conjunction with SITE reconnaissance activities are consistent with published information and confirmed the presence of stream terrace deposits forming the slopes and base of the adjacent Dry Comal Creek channel. Reconnaissance efforts did not reveal the presence of exposed limestone or other rock units throughout the extent of the project area.

5.1.4 Groundwater Depth and Movement

Fluviatile terrace deposits of varying thickness comprise the near-surface geology in the project vicinity and consist of clays, sands, and cherty gravels. Terrace deposits are locally water-bearing and may yield sufficient quantities of water to support residential or commercial usage. In general, shallow groundwater occurrence is limited to laterally-discontinuous coarse-grained deposits corresponding to the Qt. These shallow water-bearing deposits represent the groundwater zone most likely to be impacted by releases from UST systems or surface spills of hazardous substances. Vertical percolation of groundwater beyond the base of these stream deposits within the project area is limited by the presence of the underlying, relatively impermeable Taylor Marl formation. In general, groundwater tends to mimic surface topography with flow towards area streams, creeks, rivers, etc. Shallow groundwater flow within the SITE vicinity is therefore expected to the east/southeast towards Dry Comal Creek.

A major aquifer and source of municipal water in Comal and surrounding counties, which underlies the shallow water-bearing zone described above is the Edwards Aquifer. This prolific karst aquifer is recharged partly by direct infiltration of precipitation within the Texas Hill Country (dissected edge of Edwards Plateau), but primarily as a function of underflow from streams crossing the Balcones Fault Zone. The Edwards Aquifer Recharge Zone (EARZ) includes portions of northern Comal County where the Edwards Limestone is exposed and recharge occurs. Three additional zones designated as (i) Transition Zone; (ii) Artesian Zone; and (iii) Saline Zone have been identified with respect to aquifer protection as set forth below:

> Transition Zone is the area immediately adjoining south of the EARZ underlain by Upper-Cretaceous rock units that may have a hydraulic connection and may be capable of contributing recharge to the Aquifer. This zone is considered to represent an area of moderate risk for contamination to the Aquifer.
>
> Artesian Zone is the area south of the Recharge and Transition Zones. The Artesian Zone extends across portions of ten counties in south central Texas and includes a narrow band crossing Comal County. This portion of the Aquifer is typically separated from ground surface by several hundred feet of overlying clay, shale, marl, and limestone units, which makes the migration of surface-derived contaminants unlikely.
>
> Saline Zone is located south of the Artesian Zone and is roughly delineated by the “bad-water line”. Wells down-gradient from this “bad-water line” generally produce water containing 1,000 ppm or greater of dissolved solids and is considered to be a low-quality water source.

The proposed hike and bike trail project is fully located along the south border of the Transition Zone as per official maps produced by the Edwards Aquifer Authority. Recharge to the Aquifer generally does not occur directly above the Transition Zone in the absence of large-scale geologic features (e.g., fault and fracture zones, large sinkholes, etc.) that would provide a hydraulic connection. In the project vicinity, relatively impermeable geologic units comprised predominately of marine clay and dense limestone is present between the shallow stream terrace deposits at the SITE and the top of the Edwards Aquifer.

According to the GeoSearch *Water Well Report* dated July 25, 2018 presented as ***Attachment D***, ninety-two water wells/soil borings were identified within a 0.5 mile radius of the SITE that penetrate the shallow alluvial aquifer or underlying Edwards Aquifer. Of the findings, none were reported on or adjacent to the SITE.

5.2 Historical Records

The objective of consulting historical sources is to develop a history of the previous uses of the property and surrounding area to help identify the likelihood of past uses having led to *RECs* in connection with the property.

5.2.1 Historical Property Use

RKEI reviewed available historical aerial photography dated 1938, 1952, 1958, 1969, 1976, 1987, 1995, 2004, 2005, 2008, 2010, 2012, 2014, and 2016 (***Attachment E***), to obtain information pertaining to historical uses of the SITE. A summary of these aerial photographs are as follows:

- 1938-2016: The SITE is depicted as vacant/undeveloped land.

Based on additional historical information available for the SITE during this ESA-I process, no *RECs* were identified for the SITE.

5.2.2 City Directories

City directories such as *R. L. Polk & Co., InfoUSA, Morrison & Fourmy, Cole's, or Criss-Cross* include year-by-year listings of property occupancy by address. A findings summary of the GeoSearch *City Directory Report* (***Attachment F***) dated July 27, 2018 for Landa Street and North Walnut Avenue identified use as residential, medical, and commercial from 1952 through 2016. The adjacent Knights of Columbus (111 Landa Street) was listed from 1972 through 2016. The only reported listings within the *Regulatory Database* for Landa Street was 315 Landa Street. According to the *Radius Report*, this address appears to be associated with the IHWCA/IOP finding, Landa Plaza Shopping Center. However, this address was reported only as Frost Bank in 2006, 2011, 2016 and Citizens Bank in 1995/96 and 1990. The address 726 North Walnut Avenue located in the vicinity of the SITE was reported for use as auto sales in 2016 and 2011 (LPST No. 101595). Within the same area, Quick Align Brakes and Suspension was reported at 708 North Walnut Avenue in 2005 and 2000/01. In 1990 a car wash was reported with the same address. Auto Audio at 710 North Walnut Avenue is reported in 1995. Based on the city directory data, the adjacent and vicinity properties reviewed along Landa Street and North Walnut Avenue are not

considered potential *recognized environmental conditions* for the SITE. The SITE has no address listed in the city directory data between 1952-2016, which is consistent with the undeveloped history identified in other documents reviewed by **RKEI** (i.e., aerial photographs and topographic maps).

5.2.3 Fire Insurance Maps

In the late nineteenth century, the Sanborn Company began preparing property usage maps for use by fire insurance companies primarily for urban developed areas. The GeoSearch *Fire Insurance Map* Report (***Attachment G***) dated July 27, 2018 included maps dated 1907, 1912, 1922, 1930, 1949, and 1969. Historical conditions for the SITE were not identified and areas surrounding Dry Comal Creek appear vacant. The southeast adjacent property (present day New Braunfels Smokehouse) was identified within the 1922 map as New Braunfels Brewing Company. Later on, this facility is identified as South Texas Ice House within the 1930 and 1949 maps. In the 1922 map, an electric motor room and freezing tanks are identified within the facility. The 1930 map is difficult to depict due to quality, however it appears to depict the previously noted freezing tanks within the facility. The 1949 map is clearer and freezing tanks are depicted within the facility. The facility is also depicted within the 1969 map and noted as New Braunfels Smokehouse. Freezing tanks remain noted within the structure.

5.2.4 Historical Topographic Maps

The *Historical Topographic Maps* for the SITE prepared by GeoSearch dated July 26, 2018 (***Attachment H***) dated 1916, 1925 (*New Braunfels, Texas*), 1958, 1973, 1988 (*New Braunfels West, Texas*), and 2013 (*New Braunfels East and New Braunfels West, Texas*) were reviewed during this ESA-I study for historical SITE usage. Although the maps are primarily representative of topography, their map legend occasionally includes structures/features on a property. Throughout all of the topographic maps, the SITE is depicted as vacant land.

Map legend markings suggesting adverse environmental conditions (e.g., landfill, petro-refinery, etc.) of the SITE were not depicted on the historical topographic maps.

5.2.5 Historical Use of Adjacent Properties

RKEI reviewed available historical aerial photography dated 1938, 1952, 1958, 1969, 1976, 1987, 1995, 2004, 2005, 2008, 2010, 2012, 2014, and 2016 to obtain information pertaining to historical uses of the SITE adjacent properties. Adjacent transportation ROWs, present day New Braunfels Smokehouse, and railroad are visible throughout all the imagery. The present day Knights of Columbus first appears within the 1969 photograph and remains through 2016. The present day residential subdivision appears to undergo development beginning in 2010 and further develops through 2016. Prior to the adjacent subdivision, few residential homesteads are depicted from 1938 through 2010.

Additional historical records (i.e., city directories and topographic maps) were reviewed to obtain information pertaining to historical uses of the SITE adjacent properties. Based on the records reviewed, the adjacent properties are not considered a potential *recognized environmental condition* for the SITE.

5.3 Standard Environmental Records Review

The objective of the environmental regulatory agency database review is to obtain and review records that will help identify *RECs* in connection with the property. The environmental regulatory database search was performed by GeoSearch. A complete listing of databases searched and findings are included as ***Attachment I*** and found on pages 2 through 12 of the referenced attachment. The GeoSearch *Radius Report* meets the government records search requirement of *ASTM E 1527-13*. The following is an overview of the database findings:

TABLE 2 – REGULATORY DATABASE FINDINGS (GeoSearch *Radius Report*)

Database Type	Database Designation	Name	Map of Findings No.	Facility ID#	Distance and Direction from the SITE	Potential Impacts/ *REC*	Pertinent Information
Federal – *ASTM/AAI*	ERNSTX	New Braunfels Smokehouse	***Attachment I***, Finding #2	42202	0.001 miles southeast (upgradient)	No	This facility reported a release of ammonia of unknown amount due to a water valve malfunction on September 29, 1990.
Federal – *Non-ASTM/AAI*	RCRANGR06	Bluebonnet Motors Inc.	***Attachment I***, Finding #4	TXD988059911	0.076 miles east (crossgradient)	No	Non-generator reported with ignitable waste and solvents. No corrective actions have been reported.
	FRSTX	Town Creek Subdivision, Phase I	***Attachment I***, Finding #1	110038317121	SITE	No	The program listed for this facility includes the TCEQ – Agency Central Registry.
		New Braunfels Smokehouse	***Attachment I***, Finding #2	110034611132	0.001 miles southeast (upgradient)	No	The facility is listed under the TCEQ – Agency Central Registry.
		Super Cleaners 3	***Attachment I***, Finding #3	110035058521	0.013 miles southwest (crossgradient)	No	The facility is listed under the TCEQ – Agency Central Registry with a NAICS classification as a dry cleaning and laundry service.
	SEMSARCH	Canyon Lake Disposal Service	***Attachment I***, Finding #7	TXD061180253	0.018 miles southwest (upgradient)	No	The facility underwent site inspection (7/1/1984), a preliminary assessment (3/1/1984), discovery (11/1/1979), and was archived on September 5, 1995. The facility did not qualify for the NPL.

TABLE 2 – REGULATORY DATABASE FINDINGS (GeoSearch *Radius Report*)							
Database Type	Database Designation	Name	Map of Findings No.	Facility ID#	Distance and Direction from the SITE	Potential Impacts/ *REC*	Pertinent Information
Federal – *Non-ASTM/AAI*	SEMSARCH	Flour Mills of America	***Attachment I***, Finding #23	TXD980750657	0.41 miles east (crossgradient)	No	The facility underwent site inspection (2/1/1983), discovery (11/1/1979), and was archived on February 1, 1983. The facility did not qualify for the NPL.
State – *ASTM/AAI*	PST	New Braunfels Smokehouse	***Attachment I***, Finding #2	15453	0.001 miles southeast (upgradient)	No/*HREC*	This facility is currently inactive and is also reported as an LPST facility (094360). A 250-gallon UST containing gasoline was installed in 1956 and removed from the ground in 1989. Another UST of 1,000-gallon capacity containing gasoline was installed in 1974 and removed from the ground in 1989.
		Bluebonnet Motor Company	***Attachment I***, Finding #4	44331	0.076 miles east (crossgradient)	No	Inactive facility and also reported as an LPST facility (097353). Identified to have had 20 USTs of 99 gallons containing hydraulic lift oils and used oils. Of the 20, one was removed from the ground in 1990. Capacity of this tank was unknown.
		Bluebonnet Motors	***Attachment I***, Finding #4	45641	0.076 miles east (crossgradient)	No	Inactive facility and also reported as an LPST facility (097353). Identified to have had 18 USTs of 25 gallons containing hydraulic lift oils. All are reported to be in use.

TABLE 2 – REGULATORY DATABASE FINDINGS (GeoSearch *Radius Report*)							
Database Type	Database Designation	Name	Map of Findings No.	Facility ID#	Distance and Direction from the SITE	Potential Impacts/ *REC*	Pertinent Information
State – *ASTM/AAI*	PST	Rhoads Interiors	***Attachment I***, Finding #6	12011	0.176 miles southeast (upgradient)	No	Inactive facility and reported as an LPST facility (098584). Identified to have 10 35-gallon and two 99-gallon USTs containing hydraulic lift oils in use. In 1991, four 4,000-gallon and one 250-gallon USTs were removed from the ground in 1991.
		Wholesale Beers	***Attachment I***, Finding #7	3679	0.18 miles southwest (upgradient)	No	Inactive facility reported with two 2,000-gallon USTs each containing diesel and gasoline. The USTs were installed in 1981 and removed from the ground in 1988.
		New Braunfels Walnut Avenue	***Attachment I***, Finding #8	19317	0.18 miles northwest (upgradient)	No	Inactive facility and also reported as an LPST facility (101595). Identified to have had two USTs, one of 10,000-gallon capacity containing gasoline and one of 250-gallon capacity containing used oil. Both tanks were installed in 1978 and removed from the ground in 1991.
		402 W San Antonio	***Attachment I***, Finding #10	23367	0.197 miles southeast (upgradient)	No	Inactive facility reported with four 4,000-gallon USTs that contained gasoline and one 550-gallon UST that contained used oil removed from the ground. The USTs were installed in 1967 and removed from the ground in 1986.

TABLE 2 – REGULATORY DATABASE FINDINGS (GeoSearch *Radius Report*)							
Database Type	Database Designation	Name	Map of Findings No.	Facility ID#	Distance and Direction from the SITE	Potential Impacts/ *REC*	Pertinent Information
State – *ASTM/AAI*	PST	Landa Park Maintenance Warehouse	***Attachment I***, Finding #11	18396	0.207 miles northwest (crossgradient)	No	Inactive facility and also reported as an LPST facility (103957). Identified to have had one 550-gallon UST that contained gasoline. This tank was installed in 1967 and removed from the ground in 1992.
		Hanz Service Station	***Attachment I***, Finding #14	40759	0.229 miles southeast (upgradient)	No	Inactive facility and also reported as an LPST facility (091287). Identified to have had four 550-gallon and one 1,000-gallon USTs that had contained gasoline. These tanks were installed in 1987 and permanently filled in place the same year.
		Goodyear Tire and Rubber	***Attachment I***, Finding #15	13221	0.241 miles southeast (upgradient)	No	Inactive facility reported to have had one 250-gallon UST that contained used oil. This tank was installed in 1979 and removed from the ground in 1994.
	LPST	19 LPST facilities were identified within ½ mile of the SITE. One of which is located southeast adjacent to the SITE. All LPST facilities are reported to have case closure and completed cleanup. These are not considered *REC*s to the SITE due to regulatory status and distance.					
		New Braunfels Smokehouse	***Attachment I***, Finding #2	15453	0.001 miles southeast (upgradient)	No/*HREC*	Petroleum release to groundwater was reported on December 14, 1989 with no apparent threats or impacts to receptors. Corrective action began on January 19, 1990 and final concurrence was issued. Files from the TCEQ were gathered and summarized below this table.
		Bluebonnet Motor Co	***Attachment I***, Finding #4	097353	0.076 miles East (crossgradient)	No	Reported release to impact soils only, full site assessment and Remedial Action Plan (RAP) was required and final concurrence was issued in 1990.

TABLE 2 – REGULATORY DATABASE FINDINGS (GeoSearch *Radius Report*)							
Database Type	Database Designation	Name	Map of Findings No.	Facility ID#	Distance and Direction from the SITE	Potential Impacts/ *REC*	Pertinent Information
State – *ASTM/AAI*	LPST	Don Maxwell Chevrolet	***Attachment I***, Finding #6	098584	0.176 miles southeast (upgradient)	No	Reported release to impact soils only, full site assessment and RAP was required and final concurrence was issued in 1991.
		Southwestern Bell SOC New Braunfels	***Attachment I***, Finding #8	101595	0.18 miles northwest (upgradient)	No	Reported release to impact soils only, full site assessment and RAP was required and final concurrence was issued in 1992.
		Landa Park Warehouse	***Attachment I***, Finding #11	103957	0.207 miles northwest (crossgradient)	No	Reported minor release to impact soils only, RAP was not required and final concurrence was issued in 1992.
		Hanz Service Station	***Attachment I***, Finding #14	091287	0.229 miles southeast (upgradient)	No	Reported release to impact soils only, full site assessment and RAP was required and final concurrence was issued in 1987.
		Milt Ferguson Motor Company	***Attachment I***, Finding #16	096938	0.25 miles southeast (upgradient)	No	Reported minor release to impact soils only, RAP was not required and final concurrence was issued in 1990.
		Landa Texaco	***Attachment I***, Finding #17	094953	0.322 miles northwest (upgradient)	No	Reported minor release to impact soils only, remedial action was not required and final concurrence was issued in 1990.
		Landa Texaco	***Attachment I***, Finding #17	099616	0.322 miles northwest (upgradient)	No	Reported release to impact soils only, full site assessment and RAP was required and final concurrence was issued in 1991.
		LCRA Comal Facility VCP 0677	***Attachment I***, Finding #18	095755	0.349 miles north (upgradient)	No	Groundwater other than 1B site characterization incomplete. Final concurrence issued in 2016. Not considered a *REC* due to distance to SITE.
		Schlitterbahn Resort Water Park	***Attachment I***, Finding #19	107523	0.359 miles north east (crossgradient)	No	Reported release affecting the Edwards aquifer recharge or transition zone. Final concurrence was issued in 1993.

TABLE 2 – REGULATORY DATABASE FINDINGS (GeoSearch *Radius Report*)							
Database Type	Database Designation	Name	Map of Findings No.	Facility ID#	Distance and Direction from the SITE	Potential Impacts/ *REC*	Pertinent Information
State – *ASTM/AAI*	LPST	Hernandez Exxon	***Attachment I***, Finding #20	096661	0.38 miles southeast (upgradient)	No	Reported release to impact soils only, full site assessment and RAP was required and final concurrence was issued in 1990.
		Circle K 5246	***Attachment I***, Finding #22	110659	0.408 miles northwest (upgradient)	No	Reported release with no groundwater impact and no apparent threats or impacts to receptors. Final concurrence issues in 1996.
		Former Parkside Mart	***Attachment I***, Finding #22	119185	0.408 miles northwest (upgradient)	No	Reported release impacting groundwater within public/domestic water supply well within .25 to 0.5 miles. Final concurrence was issued in 2014.
		Parkside Mart	***Attachment I***, Finding #22	119516	0.408 miles northwest (upgradient)	No	Reported release impacting groundwater within public/domestic water supply well within .25 to 0.5 miles. Final concurrence was issued in 2017.
		H Dittlinger Roller Mill	***Attachment I***, Finding #23	097354	0.41 miles east (crossgradient)	No	Reported minor release to impact soils only, remedial action was not required and final concurrence was issued in 1990.
		McBees Barbeque	***Attachment I***, Finding #24	092414	0.42 miles northwest (upgradient)	No	Reported release affecting the Edwards aquifer recharge or transition zone. Final concurrence was issued in 1988.
		Pac N Sac Store	***Attachment I***, Finding #25	100577	0.45 miles southeast (upgradient)	No	Reported minor release to impact soils only, remedial action was not required and final concurrence was issued in 1991.
		New Braunfels Frame Alignment	***Attachment I***, Finding #26	101434	0.488 miles south (upgradient)	No	Reported minor release to impact soils only, remedial action was not required and final concurrence was issued in 1992.

TABLE 2 – REGULATORY DATABASE FINDINGS (GeoSearch *Radius Report*)							
Database Type	Database Designation	Name	Map of Findings No.	Facility ID#	Distance and Direction from the SITE	Potential Impacts/ *REC*	Pertinent Information
State – *ASTM/AAI*	VCP	Comal Power Plant	***Attachment I***, Finding #18	0677	0.349 miles north (upgradient)	No	Electric power generation facility of 32.846 acres reported soil impact from TPH, metals and PCBs. Completed cleanup and final certification was issued in 2002.
State – *Non-ASTM/AAI*	APAR	Former Landa Mills Power Plant	***Attachment I***, Finding #18	T2462	0.349 miles north (upgradient)	No	Located at the northeast corner of Landa Park Drive and Landa Street. The facility was reported as a commercial property and registered under the IHWCA program. Workload was completed and currently an inactive facility. Impact occurred in 2011 and contaminants were not reported.
	DCR	Super Cleaners 3	***Attachment I***, Finding #3	RN105025670	0.013 miles southwest (crossgradient)	No	Reported as a drop station only.
		Tip Top Cleaners	***Attachment I***, Finding #5	CN602462152	0.167 miles southeast (upgradient)	No	Registered use of petroleum products from 2005-2017.
		Kathy Cleaners & Alterations	***Attachment I***, Finding #9	CN602458671	0.19 miles northwest (upgradient)	No	Registered use of perchloroeythlene from 2005-2016.
	IOP	Landa Plaza Shopping Center	***Attachment I***, Finding #13	RN105929384	0.228 miles northwest (upgradient)	No/*HREC*	The IOP was received on June 22, 2010. Reported soil and groundwater impact from VOCs and TPH within shopping center of approximately eight acres. Cleanup was completed. Further information was gathered and documents from the TCEQ were requested. Additional information regarding this facility is reported below the table.

TABLE 2 – REGULATORY DATABASE FINDINGS (GeoSearch *Radius Report*)							
Database Type	Database Designation	Name	Map of Findings No.	Facility ID#	Distance and Direction from the SITE	Potential Impacts/ *REC*	Pertinent Information
State – *Non-ASTM/AAI*	CALF	Hinman Island Park	***Attachment I***, Finding #21	800	0.388 miles northeast (crossgradient)	No	Historic landfill of five acres that operated from 1952-1966. Typical contents consisted of household items.
	IHW	Bluebonnet Motors	***Attachment I***, Finding #4	TXD988059911	0.076 miles east (crossgradient)	No	This facility is reported as a car dealership with an inactive conditionally exempt small quantity generator. Description of waste was not reported.
		Tip Top Cleaners	***Attachment I***, Finding #5	TXD988019519	0.167 miles southeast (upgradient)	No	This facility is reported as an inactive, conditionally exempt small quantity generator of waste. Description of waste was not reported.
		Krueger Chevrolet	***Attachment I***, Finding #6	TXD026876524	0.176 miles southeast (upgradient)	No	This facility is reported as an inactive, conditionally exempt small quantity generator of waste.
		New Braunfels Cleaners	***Attachment I***, Finding #9	TXD988087326	0.19 miles northwest (upgradient)	No	This facility is reported as an inactive, conditionally exempt small quantity generator of waste. Wastes included spent tetrachloroethylene dry cleaning residue, tetrachloroethylene contaminated from process filtration, and tetrachloroethylene contaminated sludge from process distillation.
		Henry & Sons Construction Maintenance	***Attachment I***, Finding #12	TXD988047866	0.212 miles west (upgradient)	No	This facility is reported as a maintenance yard for Schlitterbahn Water Park with an active conditionally exempt small quantity generator.

TABLE 2 – REGULATORY DATABASE FINDINGS (GeoSearch *Radius Report*)							
Database Type	Database Designation	Name	Map of Findings No.	Facility ID#	Distance and Direction from the SITE	Potential Impacts/ *REC*	Pertinent Information
State – *Non-ASTM/AAI*	IHW	Goodyear Service Store 4756	***Attachment I***, Finding #15	TXD149980799	0.241 miles southeast (upgradient)	No	This facility is reported as an inactive, conditionally exempt small quantity generator of waste.
		Goodyear Auto Service Center	***Attachment I***, Finding #15	TXD149980799	0.241 miles southeast (upgradient)	No	This facility is reported as an inactive, conditionally exempt small quantity generator of waste.
	IHWCA	Landa Plaza Shopping Center	***Attachment I***, Finding #13	RN105929384	0.228 miles northwest (upgradient)	No/*HREC*	This facility is reported as inactive as of 2010. Further information was gathered and documents from the TCEQ were requested. Additional information regarding this facility is reported below the table.
		Goodyear Auto Service Center	***Attachment I***, Finding #15	RN100712488	0.241 miles northeast (upgradient)	No	This facility is reported as inactive as of 2017.
		Lower Colorado River Authority LCRA Comal Facility	***Attachment I***, Finding #18	RN104649835	0.349 miles north (upgradient)	No	This facility is reported as inactive as of 2005.
		Former Landa Mills Power Plant	***Attachment I***, Finding #18	RN105932768	0.349 miles north (upgradient)	No	This facility is reported as inactive as of 2012.
		Schwabs Machine Shop New Braunfels	***Attachment I,*** Finding #27	RN104615554	0.781 miles south (upgradient)	No	This facility is reported as inactive as of 2005.
	TIERII	New Braunfels Smokehouse	***Attachment I***, Finding #2	FATR201257 KKKG002DQG	3.42 feet southeast (upgradient)	No	The facility is listed as a meat products and processor from carcasses. Some chemicals reported include anhydrous ammonia and sulfuric acid.

NOTES:

Federal – *ASTM/AAI*

Emergency Response Notification System (ERNSTX): The standard search for ERNSTX sites is for the SITE only.

Federal – Non-*ASTM/AAI*

RCRA Non-Generator Facilities (RCRANGR06): The standard search for RCRANGR06 facilities is for one-quarter (¼) mile radius from the SITE.

Facility Registry System (FRSTX): The standard search radius for FRSTX facilities is for the SITE only.

Superfund Enterprise Management System Archived Site Inventory (SEMSARCH): The standard search radius for SEMSARCH facilities is one-half (½) mile.

State – *ASTM/AAI*
State/Tribal Storage Petroleum Storage Tanks (UST/AST): The standard search for PST facilities is for the SITE and adjacent properties.
State/Tribal Leaking PST (LPST): The standard search radius for LPST sites is one-half (½) mile.
State/Tribal VCP: The standard search radius for State/Tribal VCP sites is one-half (½) mile.
State – Non-*ASTM/AAI*
Affected Property Assessment Reports (APAR): The standard search radius for APAR facilities is one-half (½) mile.
Innocent Owner/Operator Database (IOP): The standard search radius for IOP facilities is one-half (½) mile.
Closed & Abandoned Landfill Inventory (CALF): The standard search radius for CALF facilities is one-half mile.
Dry Cleaners (DCR): The search radius for DCR facilities is one-half (½) mile.
Industrial Hazardous Waste (IHW): The standard search radius for IHW facilities is one-quarter (¼) mile.
Industrial and Hazardous Waste Corrective Action Sites (IHWCA): The standard search radius for IHWCA facilities is one mile.
Tier II Chemical Reporting Program Facilities (TIERII): The standard search radius for TIERII findings is for the SITE and adjacent properties.

Based on the information reviewed for the regulated facility findings, two findings constitutes as *HRECs*. Although there are 48 findings within the database report (not including the SITE and two findings discussed below), the remaining findings all are located at distances such that historical incidents do not represent *REC*s. The two *HREC* findings are described as follows:

- New Braunfels Smokehouse: Located approximately 0.001 miles southeast of the SITE. According to a TNRCC, *Interoffice Memorandum*, dated August 25, 1995, a release was reported on December 11, 1989 after the removal of one 250-gallon (diesel) and one 1,000 gallon (unleaded gasoline) USTs. The overexcavation of soils within the former tank pit occurred on January of 1990 to a depth of 11 feet. Soil samples confirmed detection of TPH and BTEX concentrations. Further excavation occurred in March of 1990 to approximately 22 feet. A total of approximately 240 cubic yards of affected soils were disposed of at a landfill and clean fill material was replaced within the former tankhold. Groundwater was not encountered during this process. An *Initial Site Assessment* in June of 1991 consisted of the drilling of two soil borings and one monitor well (MW-1). Soil samples indicated TPH and BTEX concentrations ranging from ND to 31 parts per million (ppm) and 17.22 ppm, respectively. Groundwater at MW-1 was recorded at a depth of 27 feet bgs. Groundwater samples from this well reported TPH at 2.07 ppm and BTEX at 0.001 ppm. Two additional groundwater sampling events occurred in July of 1991 and indicated ND for TPH and BTEX. A subsurface investigation occurred in July of 1995 by KEI Consultants, Inc. which consisted of the drilling of four soil borings to depths of 40 feet (B-1 through B-3 and MW-2); water samples were collected from two of these (B-1 and MW-1). Soils samples revealed TPH concentrations ranging from ND to 55 ppm, BTEX from ND to 0.7 ppm, and polynuclear aromatic hydrocarbons (PAH) as ND. A groundwater sample obtained from B-1 reported TPH and BTEX at 11 ppm and 1.1 ppm, respectively. This sample was reported to not be representative of groundwater conditions due to its location within the former tank field. According to the TNRCC *Petroleum Storage Tank Priority 4 LPST Case Closure Request Form* dated August 10, 1995, the water sampled at B-1 was theorized to have been a trapped pocket of water within the open tankhold and noted that it was inconsequential with regard to contamination. Borings that were drilled adjacent confirmed no presence of groundwater at or below the encountered water (32-34 feet bgs). As indicated within the previously mentioned TNRCC *Interoffice Memorandum*, analytical groundwater sample results from MW-1 indicated TPH and BTEX concentrations as ND. Target cleanup levels established at the facility was 1 ppm for BTEX and 5 ppm for TPH and soil cleanup levels at 100 ppm for TPH and 30 ppm for BTEX. Historic soil impact appeared to be confined within the clay soils at approximately 32 feet and localized within the former tankhold. No further remedial action was deemed necessary according to a September 8, 1995 TNRCC letter regarding the subsurface

release of gasoline at the facility. Due to the regulatory closure and remedial actions that occurred at this facility, impacts to the SITE are unlikely. The referenced files were obtained from the TCEQ and are included in ***Attachment J***.

- Landa Plaza Shopping Center: Located approximately 0.228 miles northwest of the SITE. According to an *Approval of Closure Report l*etter from the TCEQ dated September 21, 2010, the facility was reported to have operated as a shopping center consisting of a take-out restaurant, dry cleaners, photographic film processing facility, pharmacy, and other retail stores. Soil and groundwater samples were collected revealing TPH detection in one soil boring (at 24-26 feet bgs) and one groundwater sample at the northwest corner of the facility. It was reported that the TPH concentration was due to an adjacent former gas station with LPST history (Nos. 99614 and 94953). Due to the petroleum hydrocarbon impact to this facility, Landa Plaza Partners GP, LLC, with Terracon Consultants Inc, submitted an application to the TCEQ IOP on June 22, 2010. Terracon conducted a *Supplemental Limited Site Investigation* report on May 12, 2010. The findings are summarized as follows.

    - Results "detected gasoline-range petroleum hydrocarbons, tetrachloroethene (PCE), and arsenic constituents in some soil samples exceeding TCEQ Tier 1 action levels" with the highest concentrations occurring within the northwest corner of the facility. Concentrations of petroleum seemed to drastically decrease as distance from the northwest corner increased. Petroleum hydrocarbons detected were likely a result from the adjacent LPST facility. Despite TPH in B-1 exceeding TCEQ screening levels, VOCs and SVOCs detected in the same sample were reported below action levels. A groundwater sample collected detected arsenic and it was suspected to be a result due to higher than normal suspended solids in groundwater. A resampling of a permanent well indicated arsenic levels below the action level. No VOCs, semi-VOCs, arsenic, lead, and mercury constituents were detected in the groundwater samples above action levels. SPLP extraction and analyses for soil samples with the highest concentrations of VOCs and a soil sample with detected arsenic, mercury, and lead concentrations resulted to be less than groundwater protection action levels. Thus, low concentrations of the VOCs and metals indicate the constituents are unlikely to leach out of the soils and impact groundwater. The PCE, arsenic, lead, and mercury releases at the property have not significantly affected groundwater.

  Furthermore, concentrations of contaminants recorded at this facility confirm that all levels detected are below the action levels established by the TCEQ, thus closure of the facility was accepted on September 21, 2010. The referenced files were obtained from the TCEQ and are included in ***Attachment K***.

The remaining nearest findings that were thoroughly evaluated as part of this ESA-I were in conclusion, not considered *RECs* to the SITE due to regulatory status, distance, and topographic relationship.

Unlocatable Databases

No unlocatable records were found.

5.4 Additional Environmental Record Sources

During the course of this ESA-I study, **RKEI** supplemented the standard environmental record sources by reviewing reasonably ascertainable records on July 25, 2018 pertaining to the SITE and adjacent properties:

Water Supply and Monitoring Wells: According to Texas Water Development Board's *Water Information Integration and Dissemination* website at *http://www.twdb.texas.gov*, no water supply wells were identified on or adjacent to the SITE. Groundwater depths for a deep well drilled to 576 feet below land surface, located about 0.2 miles west of the SITE reported approximately 0.14 feet below land surface on November 6, 2009. This database is updated on a daily basis.

Oil Well, Gas Wells, and Pipelines: According to Texas Railroad Commission map records available online at *http://wwwgisp.rrc.texas.gov/GISViewer2/*, no gas or oil wells are mapped on or adjacent to the SITE. This database is updated on a daily basis. In addition, the GeoSearch *Oil & Gas Report* (***Attachment L***) dated July 25, 2018 did not identify any oil or natural gas wells on the SITE or adjacent properties.

Other Databases: The U.S. EPA *Cleanups in My Community* database available online (*http://ofmpub.epa.gov/apex/cimc/f?p=CIMC:73*) reported no records indicating any cleanup/remediation activities for the SITE or adjacent properties. This database was updated on a monthly basis, and was last updated on July 19, 2018 at the time of the ESA-I reporting.

5.5 Previous Environmental Reports

No previous ESA-I reports for the SITE were identified or reviewed by **RKEI** during the course of this ESA-I process.

6.0 SITE RECONNAISSANCE

The objective of the SITE reconnaissance is to obtain information indicating the likelihood of identifying *recognized environmental conditions* in connection with the SITE.

6.1 Methodology and Limiting Conditions

Nicolas Post of **RKEI**, meeting the requirements per *ASTM Practice E 1527-13* for an Environmental Professional, conducted SITE reconnaissance activities on July 30, 2018. The SITE and its perimeter were traversed by foot while the surrounding area of was observed on foot and from a vehicle.

RKEI did not encounter SITE access limitations imposed by physical obstructions, such as adjacent buildings, bodies of water, asphalt, or other paved areas, and limiting conditions (e.g., adverse weather conditions).

6.2 General Site Setting

6.2.1 Sewage Disposal System

A sewage disposal system was not observed on the SITE. The local municipal service for the general area is provided by New Braunfels Utilities.

6.2.2 Surface Storm Water Drainage

The topographic relief at the SITE falls gradually to the southwest and ultimately drains into the Dry Comal Creek.

The GeoSearch *Physical Setting Maps* dated July 25, 2018 indicates that the majority of the SITE is located within the Federal Emergency Management Agency (FEMA) Zone AE, an area that is subject to inundation by the 1-percent-annual-chance flood event.

6.2.3 Potable Water Supply

Potable water for the general area is provided by New Braunfels Utilities, a state approved public water purveyor. Raw water sources are from the Edwards Aquifer, Canyon Reservoir, Run of River Rights and Trinity Aquifer.

6.2.4 Surface Water

RKEI did not observe any creeks, streams, or surface water impoundments on the SITE. Dry Comal Creek runs adjacent to the SITE.

6.2.5 Underground and Above Ground Storage Tanks (UST/AST)

USTs or ASTs were not observed on the SITE.

6.2.6 Odors

Strong, pungent, or noxious odors were not identified on the SITE.

6.2.7 Pools of Liquid

RKEI did not observe any pools of liquid on the SITE.

6.2.8 Drums

RKEI did not observe any drums of regulated substances on the SITE.

6.2.9 Hazardous Substance and Petroleum Products Containers

RKEI did not observe hazardous substance and petroleum product containers on the SITE.

6.2.10 Known or Observed Usage of Hazardous Substances

Observed usage of hazardous substances was not identified on the SITE during reconnaissance activities.

6.2.11 Unidentified Substance Containers

RKEI did not observe any unidentified substance containers on or about the SITE during the reconnaissance.

6.2.12 Polychlorinated Biphenyls (PCBs)

Electrical transformers are a potential source of environmental concern due to the potential presence of PCBs contained in dielectric fluids used in some units. No transformers were observed on the SITE.

6.2.13 Potential for Offsite Migration of Hazardous Materials or Petroleum Products

RKEI did not observe any visual or documented evidence of migration of hazardous substances or petroleum hydrocarbons onto or from the SITE.

6.3 Interior Observations

No permanent structural development was observed on the SITE. Therefore, the presence of internal building space heating and cooling equipment, floor surface stains and corrosions, sanitary sewage drains and sumps and other potential features of environmental interest associated with structures, were not addressed pursuant to *ASTM E 1527-13 §9.4.3*.

6.4 Exterior Observations

6.4.1 Pits, Ponds, or Lagoons

Evidence of pits, ponds, or lagoons were not observed nor identified in connection with waste disposal or waste treatment on the SITE.

6.4.2 Stained Soils or Stressed Vegetation

Evidence of stained soils or stressed vegetation as a result of a release of hazardous materials and/or petroleum products was not observed on the SITE.

6.4.3 Solid Waste Disposal

No evidence of solid waste disposal was observed on the SITE.

6.4.4 Process Wastewater

Process wastewater was not observed on the SITE.

6.4.5 Wells

Oil, natural gas or domestic water supply wells were not observed on the SITE.

6.4.6 Septic Systems

RKEI neither observed nor identified any onsite septic systems or cesspools.

6.4.7 Site Plan

A Site Plan is superimposed on a 2018 *Google Earth* aerial image in ***Figure 3 – Site Plan***, depicting SITE conditions as observed during July 30, 2018 reconnaissance activities.

7.0 INTERVIEWS

The objective of interviews is to obtain information that may indicate *REC*s in connection with the SITE. This section includes information obtained from verbal discussions with individuals and organizations familiar with the SITE.

7.1 Interview with Site Owner

During this ESA-I process an owner interview was conducted via e-mail on August 09, 2018. Mr. David Wolters (Town Creek) and Mr. Schima (Knights of Columbus) were asked the following questions and their responses are reported below.

- How long has the SITE been under current ownership? ***The 9 acres [of] the Town Creek Partnership designated for donation to the City of New Braunfels is to be used as part of the Comal Creek Hike and Bike Trail and has been owned for approximately 11 years.***

- What has the SITE been utilized for under current ownership? ***Recreation. Town Creek has maintained a crushed granite trail from Walnut Ave[nue], at the south end, to the Knights of Columbus property, on the north end. The 9 acres along the west bank of the creek has otherwise been left in its natural state and cattle grazing has been fenced off, separating them from the trail and Comal Creek.***

- What condition (e.g., developed, undeveloped) was the SITE when acquired? ***The site was being used for agricultural uses, cattle grazing on the north 30 acres.***

- What was the prior use of the property before it was in your possession? ***Agriculture.***

- Has the SITE been subject to AST's or UST's for water/oil/gas/hazardous material? ***NO.***

- Is there any maintenance of equipment or fleet vehicles onsite? ***NO***

- Do you know of any environmental enforcement actions pertaining to the property (liens/land use restrictions)? ***NO***

- Have there been any hazardous material spills onsite? *NO*

- Are there or have there been any hazardous materials stored on SITE? ***NO***

- Do you know of any hazardous spills or environmental concerns on adjacent properties? ***NO***

- Does the property have a septic tank or does it use municipal sewage disposal?
    - If municipal, then who is the provider? ***City of New Braunfels.***
- Are there any water wells on the property? If so where are they? What are their uses? ***Not on the 9 acres to be dedicated***

7.2 Interviews with Local Government Officials

RKEI contacted the City of New Braunfels via online open records request on August 1, 2018 to determine if the SITE has been subject to any adverse environmental conditions. A response was received on August 6, 2018 and no documents were found.

8.0 FINDINGS AND CONCLUSIONS

RKEI performed an ESA-I for the proposed Dry Comal Creek Trail consisting of approximately one mile in length located between Landa Street and North Walnut Avenue in the downtown sector of the City of New Braunfels, Comal County, Texas. The findings, opinions, conclusions, and recommendations developed during this ESA-I are presented as follows:

At the time of reconnaissance activities, the SITE was observed as undeveloped land majorly comprised of portions of a crushed granite trail.

During SITE reconnaissance activities, **RKEI** did not observe evidence of the following: bulk storage of hazardous materials and/or petroleum products in USTs/ASTs; process wastewater generation; oil or gas wells; hazardous material usage; stained soils or stressed vegetation; suspect PCBs or other features on the SITE that would suggest potential *recognized environmental conditions* associated with the SITE.

Observed use and condition of adjacent properties includes the following: residential and undeveloped land to the north; and commercial and residential to the south, east, and west. Dry Comal Creek runs adjacent east and south along the SITE. Evidence of *readily observable RECs* was not observed in connection with the adjacent properties.

A search of federal (EPA) and state (TCEQ) environmental regulatory databases by GeoSearch, reported 56 regulated facility findings within the standard 1.0-mile search radius of the SITE, as defined by the *ASTM Standard E 1527-13, AAI*. The *HREC* findings are described as follows.

- New Braunfels Smokehouse – located south adjacent to the SITE at North Guenther Avenue. A release was reported on December 11, 1989 after the removal of one 250-gallon (diesel) and one 1,000 gallon (unleaded gasoline) USTs. A total of approximately 240 cubic yards of affected soils were disposed of at a landfill and clean fill material was replaced within the former tankhold. Soil and groundwater sampling events occurred in 1991 and 1995 indicating TPH and BTEX concentrations and were ultimately confirmed to have been below cleanup levels for soils. Analytical groundwater sample results from a monitor well indicated TPH and BTEX concentrations as ND as of 1995. Groundwater was recorded at a depth of 27 feet bgs. Historic soil impact appeared to be confined within the clay soils at approximately 32 feet and localized within the former tankhold. No further remedial action was deemed necessary according to a September 8, 1995 TNRCC letter regarding the subsurface release of gasoline at the facility. Due to the regulatory closure and remedial actions that occurred at this facility, impacts to the SITE are unlikely. Files were obtained from the TCEQ and were previously discussed within ***Section 5.3***. This finding constitutes a *HREC* for the adjacent property to the SITE.

    - This facility is reported to be registered under the programs of ERNSTX, FRSTX, PST, LPST and TIER II.

- Landa Plaza Shopping Center – located approximately 0.228 miles northwest of the SITE. The facility is reported to be registered under the IHWCA and IOP programs. According to an *Approval of Closure Report* letter from the TCEQ dated September 21, 2010, the facility was

reported to have operated as a shopping center consisting of a take-out restaurant, dry cleaners, photographic film processing facility, pharmacy, and other retail stores. Soil and groundwater samples were collected revealing TPH in one soil boring (at 24-26 feet bgs) and one groundwater sample at the northwest corner of the facility. It was reported that the TPH concentration was due to an adjacent former gas station with LPST history (Nos. 99614 and 94953). Due to the petroleum hydrocarbon impact to this facility, Landa Plaza Partners GP, LLC., with Terracon Consultants Inc., submitted an application to the TCEQ IOP on June 22, 2010. Results revealed concentrations of PCE, arsenic, lead, and mercury in soils above residential Tier 1 soil-to-groundwater PCL. Samples containing the highest amounts of PCE, arsenic, lead, and mercury were further analyzed for SPLP and resulted to be less than residential Tier 1 levels. Groundwater sampling indicated that metals, VOCs and semi-VOCs were less than Tier 1 residential PCL. Furthermore, concentrations of contaminants recorded at this facility confirm that all levels detected are below the action levels established by the TCEQ, thus closure of the facility was accepted. Impacts to the SITE from this facility are unlikely due to regulatory closure and the low concentrations of detected contaminants encountered. Files were obtained from the TCEQ and were previously discussed within ***Section 5.3***. This finding constitutes a HREC for the adjacent property to the SITE.

Based on regulatory status, remedial activities, and evidence of the unlikelihood of migration of constituents of concern detected, **RKEI** considers impact to the SITE from these facilities unlikely.

Based on the information reviewed, there was no evidence that the subject property is currently under federal or state environmental enforcement action. **RKEI** found no evidence to suggest the subject property is subject to any environmental liens and/or AULs that would affect the SITE from an environmental standpoint.

The subject property reconnaissance and regulatory database review generally revealed no evidence of environmental contaminant *vapor intrusion*, *controlled, historical or recognized environmental conditions*.

9.0 RECOMMENDATIONS

Based on the information developed as the result of ESA-I activities, further environmental assessment activities are not recommended for the SITE at this time.

10.0 DATA GAPS

A data gap per *ASTM E 1527-13* constitutes a lack of or inability to obtain information required by the ESA-I process despite good faith efforts by the Environmental Professional to gather such information. Data gaps were not encountered during the course of this ESA-I.

11.0 NON-SCOPE CONSIDERATIONS

Non-scope considerations (i.e., air quality, asbestos, cultural resources, mold, lead-based paint, waters of the U.S., etc.) per *ASTM Standard E 1527-13 §13.1.5* were not addressed as part of this ESA-I study effort.

12.0 REFERENCES

The following documents, maps, or other publications may have been utilized specifically in the preparation of this Phase I Environmental Site Assessment report or generally in the development of the report format. References to specific documents are also provided in appropriate sections of this report.

- American Society for Testing and Materials (ASTM). 2013. *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E 1527-13*.
- Comal Appraisal District. *Map Search*. *http://taxweb.co.comal.tx.us/mapSearch/?cid=1* (accessed July 24, 2018).
- GeoSearch. July 25, 2018. *Radius Report with GeoPlus.*
- Google Earth. 2018. *Site Plan*.
- Terracon Consultants Inc. May 12, 2010. *Supplemental Limited Site Investigation.*
- Texas Commission on Environmental Quality. September 21, 2010. *Approval of Closure Report – Release Not Subject to TRRP.*
- Texas Commission on Environmental Quality. Edwards Aquifer Viewer. *http://tceq.maps.arcgis.com/apps/webappviewer/index.html?id=2e5afa3ba8144c30a49d3dc1ab49edcd* (accessed August 11, 2018).
- Texas Natural Resource Conservation Commission. August 10, 1995. *Petroleum Storage Tank Priority 4 LPST Case Closure Request Form.*
- Texas Natural Resource Conservation Commission. August 25, 1995. *Interoffice Memorandum: File Closure of Subsurface Release of Gasoline at the New Braunfels Smokehouse Facility, 441 North Guenther Road, New Braunfels (Comal County), Texas.*
- Texas Natural Resource Conservation Commission. September 8, 1995. *Subsurface Release of Gasoline at the New Braunfels Smokehouse Facility, 441 North Guenther Road, New Braunfels (Comal County), Texas.*
- Texas Railroad Commission. *Oil & gas well database. http://wwwgisp.rrc.state.tx.us/GISViewer2/*, (accessed July 25, 2018).
- Texas Water Development Board. *Online water well database. http://www2.twdb.texas.gov/apps/WaterDataInteractive/GroundWaterDataViewer*, (accessed July 25, 2018).
- United States Department of Agriculture National Resource Conservation Service. *Web Soil Survey*. *http://websoilsurvey.nrcs.usda.gov/app/*, (accessed July 24, 2018).

- United States Department of Agriculture Soil Conservation Service. June 1984. *Soil Survey of Comal and Hays Counties Texas*.

- United States Environmental Protection Agency. *Cleanups In My Community*. *http://ofmpub.epa.gov/apex/cimc/f?p=CIMC:73*, (accessed July 25, 2018).

- United Stated Geological Survey. 1983. *Geologic Atlas of Texas, San Antonio Sheet*.

- United States Geological Survey. *Geology Description*. *https://mrdata.usgs.gov/geology/state/sgmc-unit.php?unit=TXQt;0* (accessed on July 25, 2018).

13.0 ENVIRONMENTAL PROFESSIONAL STATEMENT

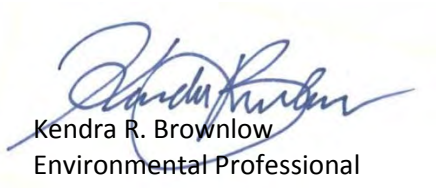
The Environmental Professionals that performed the ESA-I declare that, to the best of our professional knowledge and belief, we meet the definition of *Environmental Professional* as defined in *§312.10* of *40 CFR 312,* and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the SITE. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in *CFR Part 312*.

14.0 PROFESSIONAL QUALIFICATIONS AND SIGNATURE PAGE

RKEI is a multi-disciplined engineering and consulting firm with over twenty years of experience in the areas of environmental assessments, environmental audits, hazardous waste site restoration, environmental compliance and permitting, geological assessments, geotechnical evaluations, petroleum storage tank site monitoring and remediation, and wastewater monitoring. **RKEI** has been involved with thousands of environmental assessments and remediation projects throughout Texas.

Kendra R. Brownlow was the Environmental Professional that performed this ESA-I and Brian D. Strye provided peer review. Ms. Brownlow received her Bachelors of Science in Environmental Science in 2015. Mr. Strye received his Bachelors of Science degree in 1996 and Master of Science in Environmental Science in May of 2001. Since his employment at **RKEI**, Mr. Strye has over fifteen years of experience in the environmental discipline.

The Environmental Professionals that performed this ESA-I represent that, to the best of their knowledge, the statements and facts in this ESA-I are true and correct and, to the best of the assessor's knowledge, no material facts have been suppressed or misstated.



Kendra R. Brownlow
Environmental Professional



Brian D. Strye, M.S.
Environmental Project Manager

ATTACHMENTS

FIGURE 1

PROJECT LOCATION MAP



SOURCE: Aerial Photograph Obtained from Google Earth Pro - 2018

RABA KISTNER
50 YEARS
Building Better Tomorrows

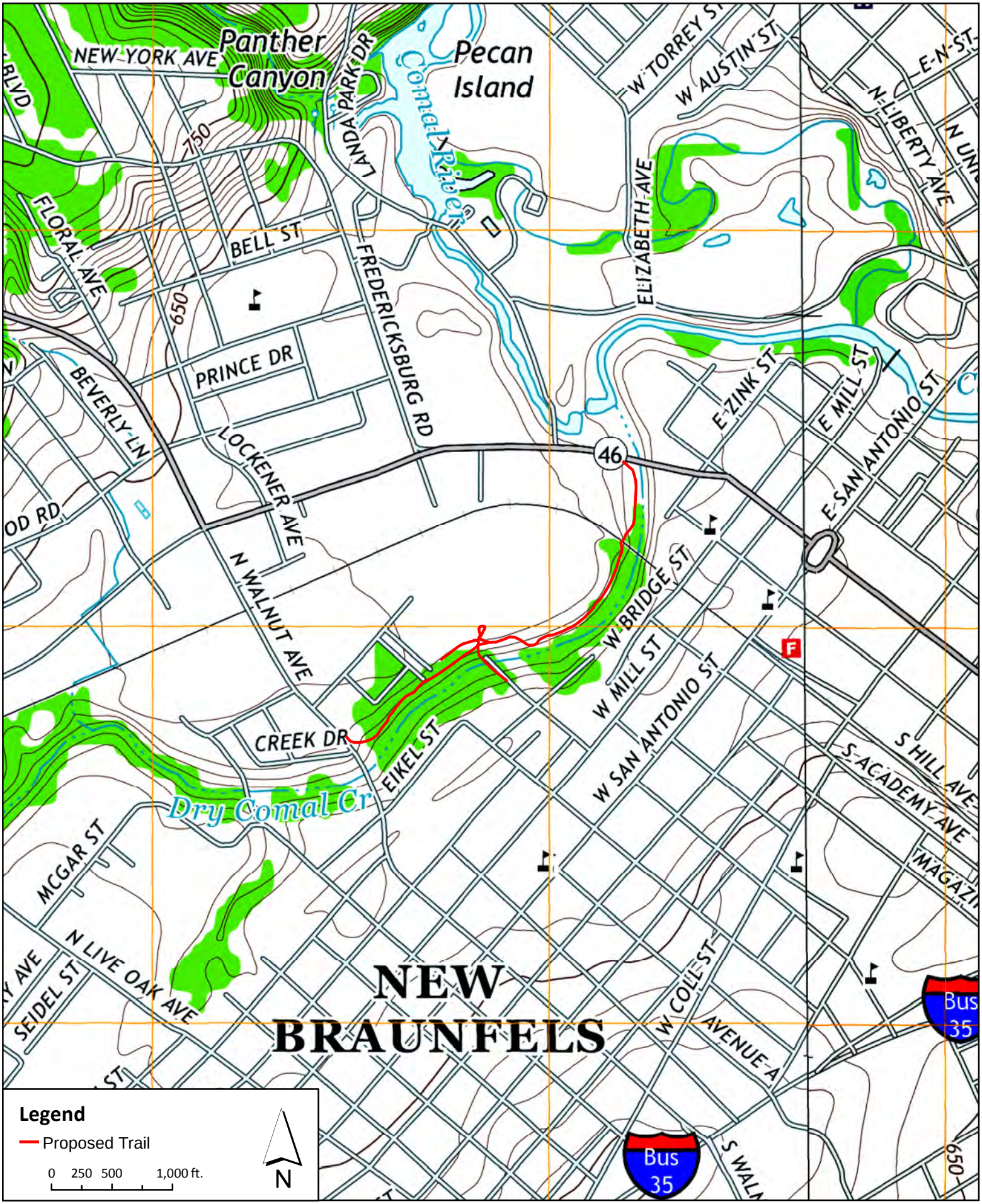
PROJECT LOCATION MAP

DRY COMAL CREEK HIKE AND BIKE TRAIL
New Braunfels, Comal County, Texas

FIGURE 1

FIGURE 2

USGS TOPOGRAPHIC MAP



SOURCE: USGS Topographic 7.5 Minute Quadrangles New Braunfels East and New Braunfels West Obtained from the Perry -Casteneda Map Collection, University of Texas at Austin - 2013

RABA KISTNER
50 YEARS
Building Better Tomorrows

USGS TOPOGRAPHIC MAP

DRY COMAL CREEK HIKE AND BIKE TRAIL
New Braunfels, Comal County, Texas

FIGURE 2

FIGURE 3

SITE PLAN



SOURCE: Aerial photograph obtained from Google Earth Pro - 2018

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Building Better Tomorrows

SITE PLAN

DRY COMAL CREEK HIKE AND BIKE TRAIL
New Braunfels, Comal County, Texas

FIGURE 3

FIGURE 4

SOILS AND GEOLOGY MAP



SOURCE: Aerial photograph obtained from Google Earth Pro - 2018

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Building Better Tomorrows

SOILS AND GEOLOGY MAP

DRY COMAL CREEK HIKE AND BIKE TRAIL
New Braunfels, Comal County, Texas

FIGURE 4

ATTACHMENT A

PHOTOGRAPHS OF SITE AND VICINITY



Photo 1. Typical view of the SITE.



Photo 2. Typical view to the south of the SITE.



Photo 3. North adjacent property (Landa Street).



Photo 4. View to the west on Landa Street.

Photographs were taken on 7/30/18.



Photo 5. North adjacent property (vacant building with debris).



Photo 6. Scattered debris on the north adjacent property.



Photo 7. North adjacent property (residential).



Photo 8. North adjacent property (multi-family residential).

Photographs were taken on 7/30/18.



Photo 9. North adjacent property (restaurant).



Photo 10. South adjacent property (Dry Comal Creek).



Photo 11. West adjacent property (commercial).



Photo 12. West adjacent property. View to the south along Walnut Avenue).

Photographs were taken on 7/30/18.

ATTACHMENT B

USER QUESTIONNAIRE

ASTM E 1527-13 Phase I Environmental Site Assessment

USER QUESTIONNAIRE

In order to qualify for one of the *Landowner Liability Protections (LLPs)* offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the *"Brownfields Amendments"*), the user must provide the following information to the Environmental Professional for the property (SITE). Failure to provide this information could result in a determination that *"All Appropriate Inquiry"* is not complete.

1. **Environmental cleanup liens that are filed or recorded against the property (40 CFR 312.25).**
   Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law? **YES** **NO**

2. **Activity and land use limitations that are in place on the SITE or that have been filed or recorded in a registry (40 CFR 312.26 (a)(1)(v) and (vi)).**
   Are you aware of any activity and land use limitations, such as engineering controls, land use restrictions or institutional controls that are in place for the property and/or have been filed or recorded in a registry under federal, tribal, state or local law? **YES** **NO**

3. **Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).**
   As the user of this ESA, do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or adjacent properties so that you would have specialized knowledge of the chemicals and processes used by this type of business? **YES** **NO**

4. **Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29).**
   Does the purchase price being paid for this property reasonably reflect the fair market value of the property? **YES** **NO** **NA**
   If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? **YES** **NO**

5. **Commonly known or reasonably ascertainable information about the property (40 CFR 312.30)**
   Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? **YES** **NO**
   For example, as user,
   (a.) Do you know past uses of the property? **YES** **NO**
   (b.) Do you know of specific chemicals that are present or once were present at the property? **YES** **NO**
   (c.) Do you know of spills or other chemical releases that have taken place at the property? **YES** **NO**
   (d.) Do you know of any environmental cleanups that have taken place at the property? **YES** **NO**

6. **The degree of obviousness of the presence or likely presence of contamination at the property and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).**
   As the user of this ESA, based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property?
   YES **NO**

Note: The *user* is defined by ASTM E 1527-13 as: The party seeking to use Practice E 1527 to complete an environmental site assessment of the property. A *user* may include, without limitation, a potential purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager. The *user* has specific obligations for completing a successful application of this Practice as defined in ASTM E1527-13 §6.0 describing the *user's* responsibilities.

USER: _____ **DATE:** 8/8/18

ATTACHMENT C

PHYSICAL SETTING MAPS

GeoPlus Physical Setting Maps

Satellite view

Target Property:

Dry Comal Hike and Bike Trail
New Braunfels, Comal County, Texas 78130

Prepared For:

Raba Kistner Environmental-San Antonio

Order #: 111976
Job #: 248576
Project #: ASF18-097-00
Date: 07/25/2018

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FEMA Report 3

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GEOLOGY Report 10

Disclaimer

The information provided in this report was obtained from a variety of public sources. GeoSearch cannot ensure and makes no warranty or representation as to the accuracy, reliability, quality, errors occurring from data conversion or the customer's interpretation of this report. This report was made by GeoSearch for exclusive use by its clients only. Therefore, this report may not contain sufficient information for other purposes or parties. GeoSearch and its partners, employees, officers And independent contractors cannot be held liable For actual, incidental, consequential, special or exemplary damages suffered by a customer resulting directly or indirectly from any information provided by GeoSearch.

Target Property Summary

Target Property Information

Dry Comal Hike and Bike Trail
New Braunfels, Texas 78130

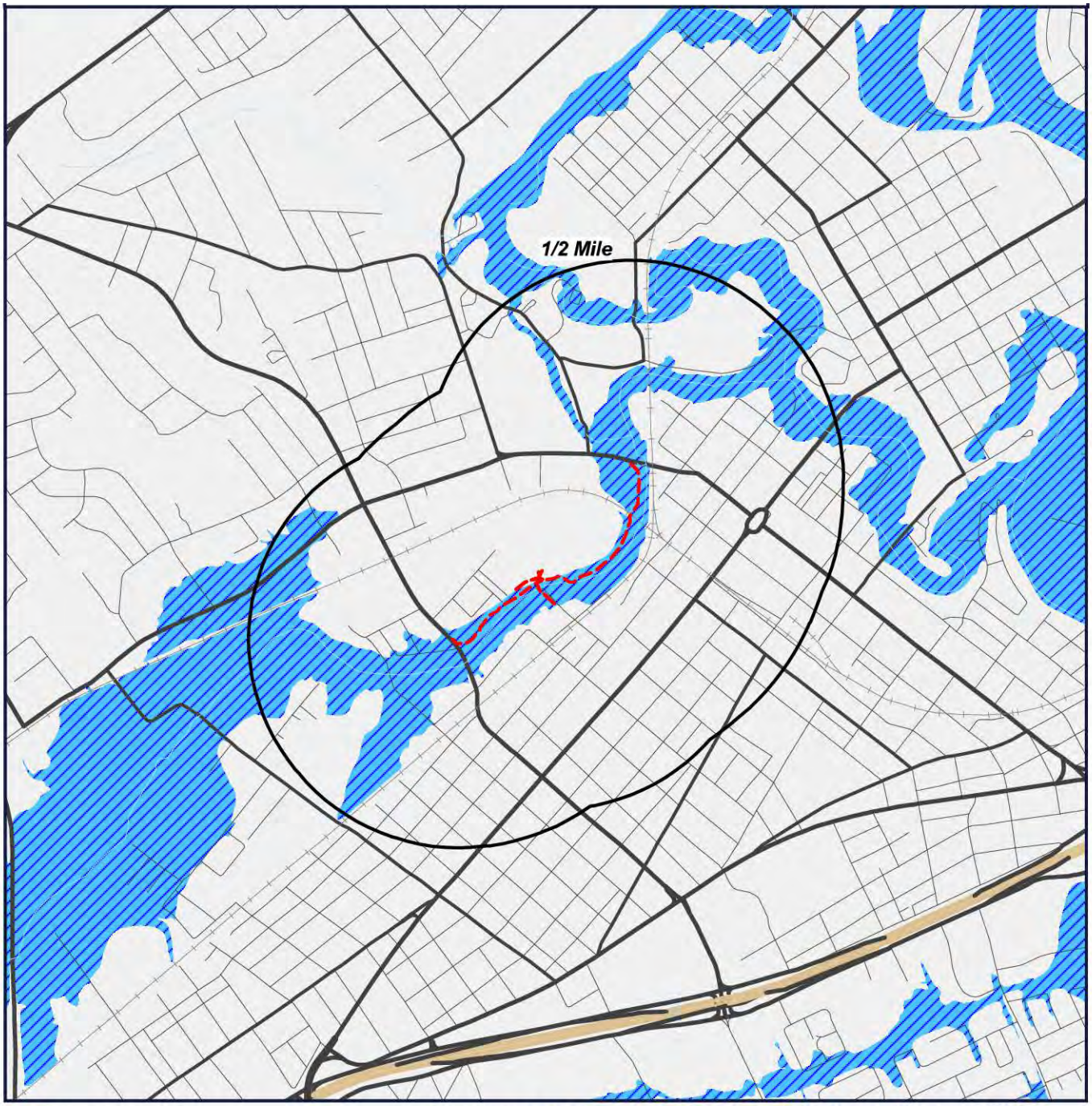
Coordinates
Corridor

USGS Quadrangle
New Braunfels West, TX

Geographic Coverage Information

County/Parish: Comal (TX)
ZipCode(s):
New Braunfels TX: 78130

FEMA Map



Target Property (TP)

ZONE A	ZONE D
ZONE AE	ZONE X
ZONE AH	AREA NOT INCLUDED
ZONE A0	OPEN WATER
ZONE AR	NDA - DIGITAL DATA NOT AVAILABLE
ZONE V	
ZONE VE	

Dry Comal Hike and Bike Trail
New Braunfels, Texas
78130

Letter of map revision date: 06/11/2018
Latest study effective date: 02/16/2018
Panel #: 48091C0435F

N
W E
S

0' 1000' 2000' 3000'
SCALE: 1" = 2000'

Click here to access Satellite view

FEMA Report

FEMA - Federal Emergency Management Agency

The National Flood Hazard Layer (NFHL) data used in this report is derived from the Federal Emergency Management Agency. The NFHL dataset is a compilation of effective Flood Insurance Rate Map (FIRM) databases (a collection of the digital data that are used in GIS systems for creating new Flood Insurance Rate Maps) and Letters of Map Change (Letters of Map Amendment and Letters of Map Revision only) that create a seamless GIS data layer for United States and its territories. The NFHL is updated as new study or LOMC data becomes effective. Note: Currently, not all areas have modernized FIRM database data available. As a result, users may need to refer to the effective Flood Insurance Rate Map for effective flood hazard information. This data was provided by the Federal Emergency Management Agency's Map Service Center in November of 2013.

FEMA Flood Zone Definitions within Search Radius

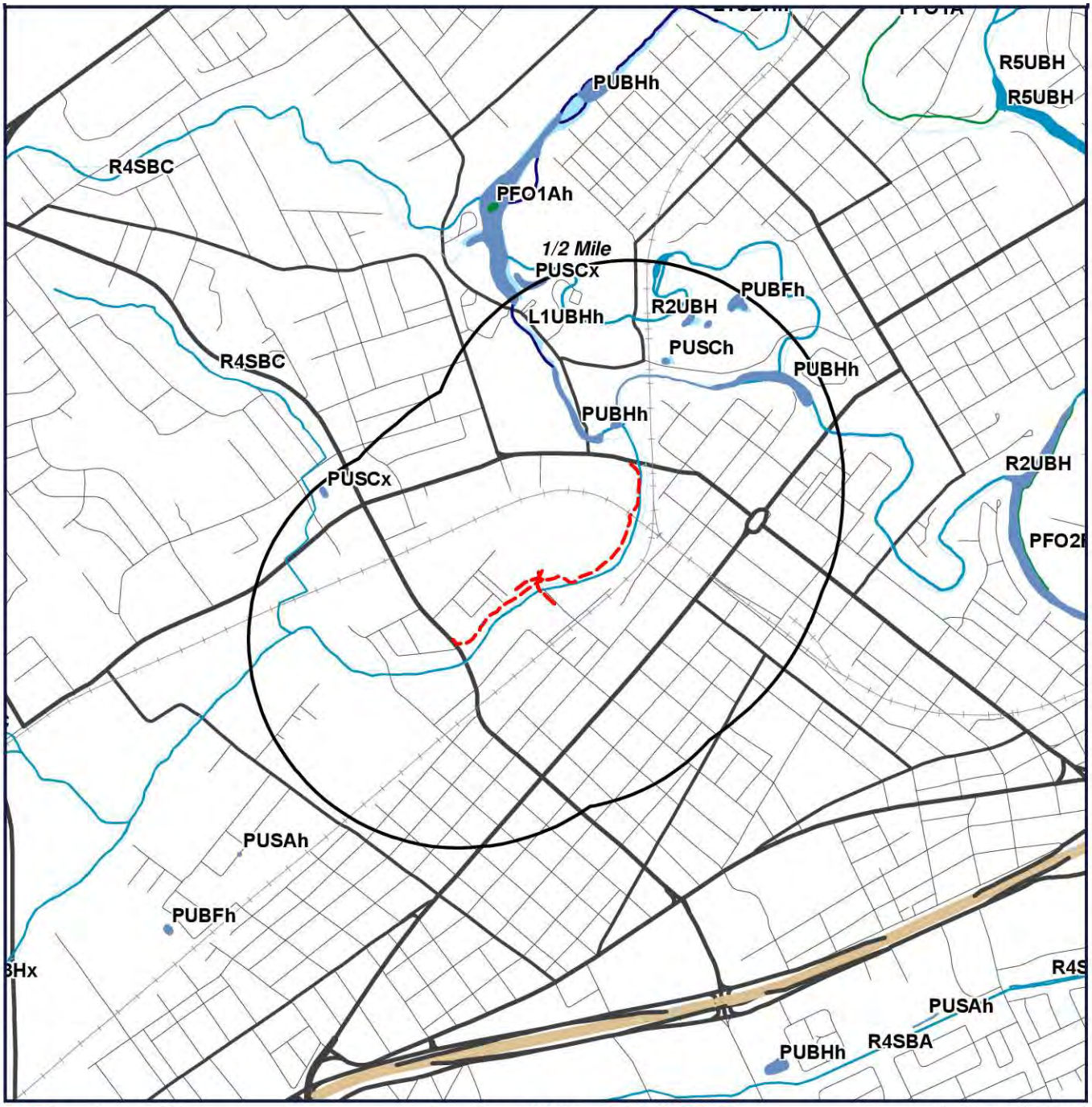
AE	Zone AE

Areas subject to inundation by the 1-percent-annual-chance flood event determined by detailed methods. BFEs are shown within these zones. (Zone AE is used on new and revised maps in place of Zones A1–A30.)

X	Zone X

An area that is determined to be outside the 100 and 500 year floodplains.

NWI Map



Target Property (TP)

Dry Comal Hike and Bike Trail
New Braunfels, Texas
78130

Map Date: 05/01/2018

- ESTUARINE AND MARINE DEEPWATER
- ESTUARINE AND MARINE WETLAND
- FRESHWATER EMERGENT WETLAND
- FRESHWATER FORESTED/ SHRUB WETLAND
- LAKE
- OTHER
- RIVERINE
- FRESHWATER POND
- NDA - DIGITAL DATA NOT AVAILABLE

N W E S

0' 1000' 2000' 3000'

SCALE: 1" = 2000'

[Click here to access Satellite view]

NWI Report

NWI - National Wetlands Inventory

The US NWI digital data bundle is a set of records of wetlands location and classification as defined by the U.S. Fish & Wildlife Service. This dataset is one of a series available in 7.5 minute by 7.5 minute blocks containing ground planimetric coordinates of wetlands point, line, and area features and wetlands attributes. When completed, the series will provide coverage for all of the contiguous United States, Hawaii, Alaska, and U.S. protectorates in the Pacific and Caribbean. The digital data as well as the hardcopy maps that were used as the source for the digital data are produced and distributed by the U.S. Fish & Wildlife Service's National Wetlands Inventory project. Currently, this data is only available in select counties throughout the United States.

NWI Definitions within Search Radius

L1UBHh

SYSTEM: **LACUSTRINE**
SUBSYSTEM: **LIMNETIC**
CLASS: **UNCONSOLIDATED BOTTOM**
WATER REGIME: **PERMANENTLY FLOODED**
SPECIAL MODIFIER: **DIKED/IMPOUNDED**

PUBFh

SYSTEM: **PALUSTRINE**
CLASS: **UNCONSOLIDATED BOTTOM**
SPECIAL MODIFIER: **DIKED/IMPOUNDED**

PUBHh

SYSTEM: **PALUSTRINE**
CLASS: **UNCONSOLIDATED BOTTOM**
SPECIAL MODIFIER: **DIKED/IMPOUNDED**

PUSCh

SYSTEM: **PALUSTRINE**
CLASS: **UNCONSOLIDATED SHORE**
SPECIAL MODIFIER: **DIKED/IMPOUNDED**

PUSCx

SYSTEM: **PALUSTRINE**
CLASS: **UNCONSOLIDATED SHORE**
SPECIAL MODIFIER: **EXCAVATED**

R2UBH

SYSTEM: **RIVERINE**
SUBSYSTEM: **LOWER PERENNIAL**
CLASS: **UNCONSOLIDATED BOTTOM**
WATER REGIME: **PERMANENTLY FLOODED**

R4SBC

SYSTEM: **RIVERINE**
SUBSYSTEM: **INTERMITTENT**

CLASS: **STREAMBED**

WATER REGIME: **SEASONALLY FLOODED**

R5UBFx

SYSTEM: **RIVERINE**

SUBSYSTEM: **UNKNOWN PERENNIAL**

CLASS: **UNCONSOLIDATED BOTTOM**

WATER REGIME: **SEMIPERMANENTLY FLOODED**

SPECIAL MODIFIER: **EXCAVATED**

R5UBH

SYSTEM: **RIVERINE**

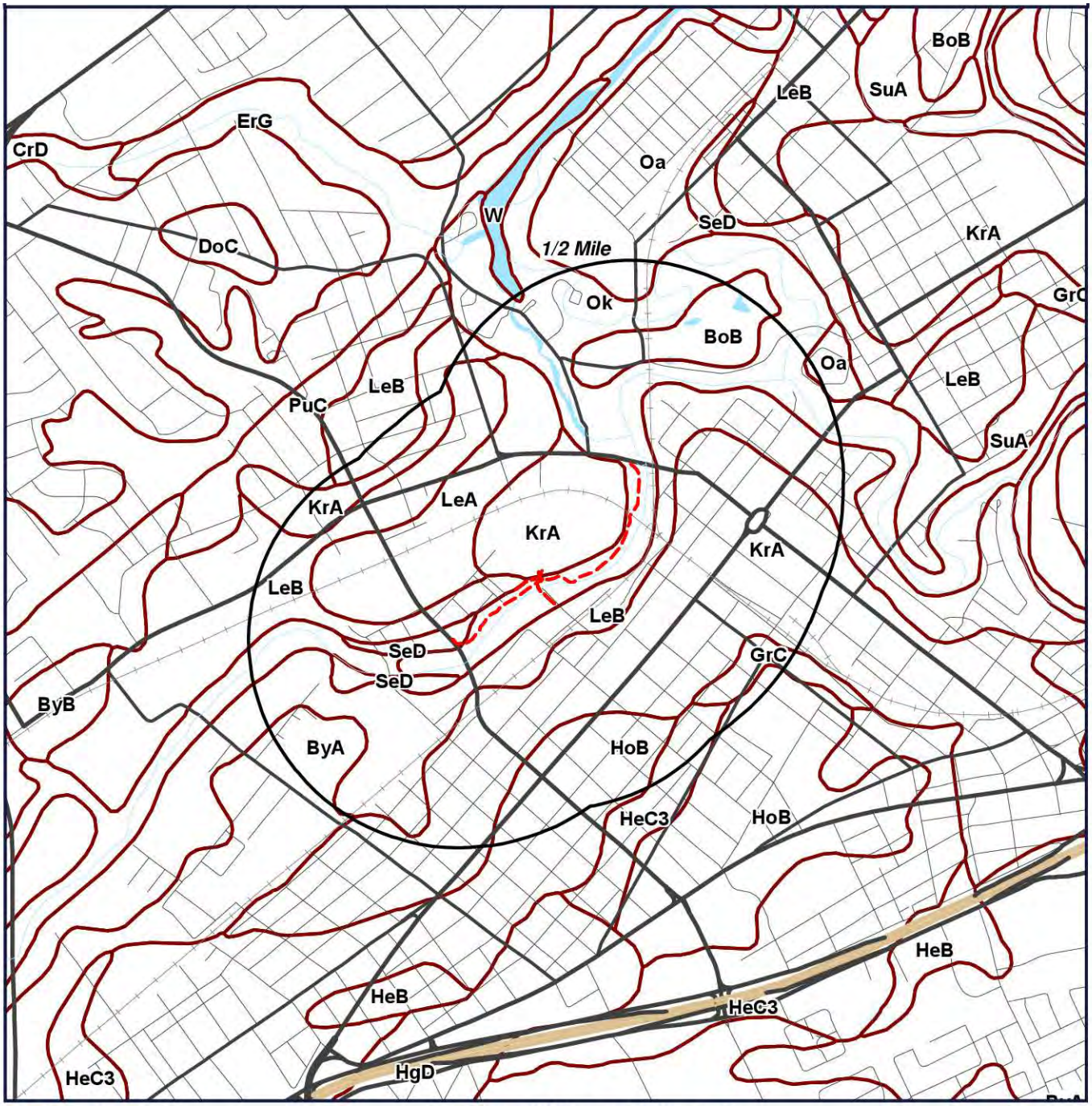
SUBSYSTEM: **UNKNOWN PERENNIAL**

CLASS: **UNCONSOLIDATED BOTTOM**

WATER REGIME: **PERMANENTLY FLOODED**

Texas - DIGITAL DATA NOT AVAILABLE

Soil Map



Target Property (TP)

SOIL BOUNDARY

NOTCOM - DIGITAL DATA NOT AVAILABLE/NOT COMPLETE

Dry Comal Hike and Bike Trail
New Braunfels, Texas
78130

N
W E
S

0' 1000' 2000' 3000'
SCALE: 1" = 2000'

[Click here to access Satellite view]

SOIL Report

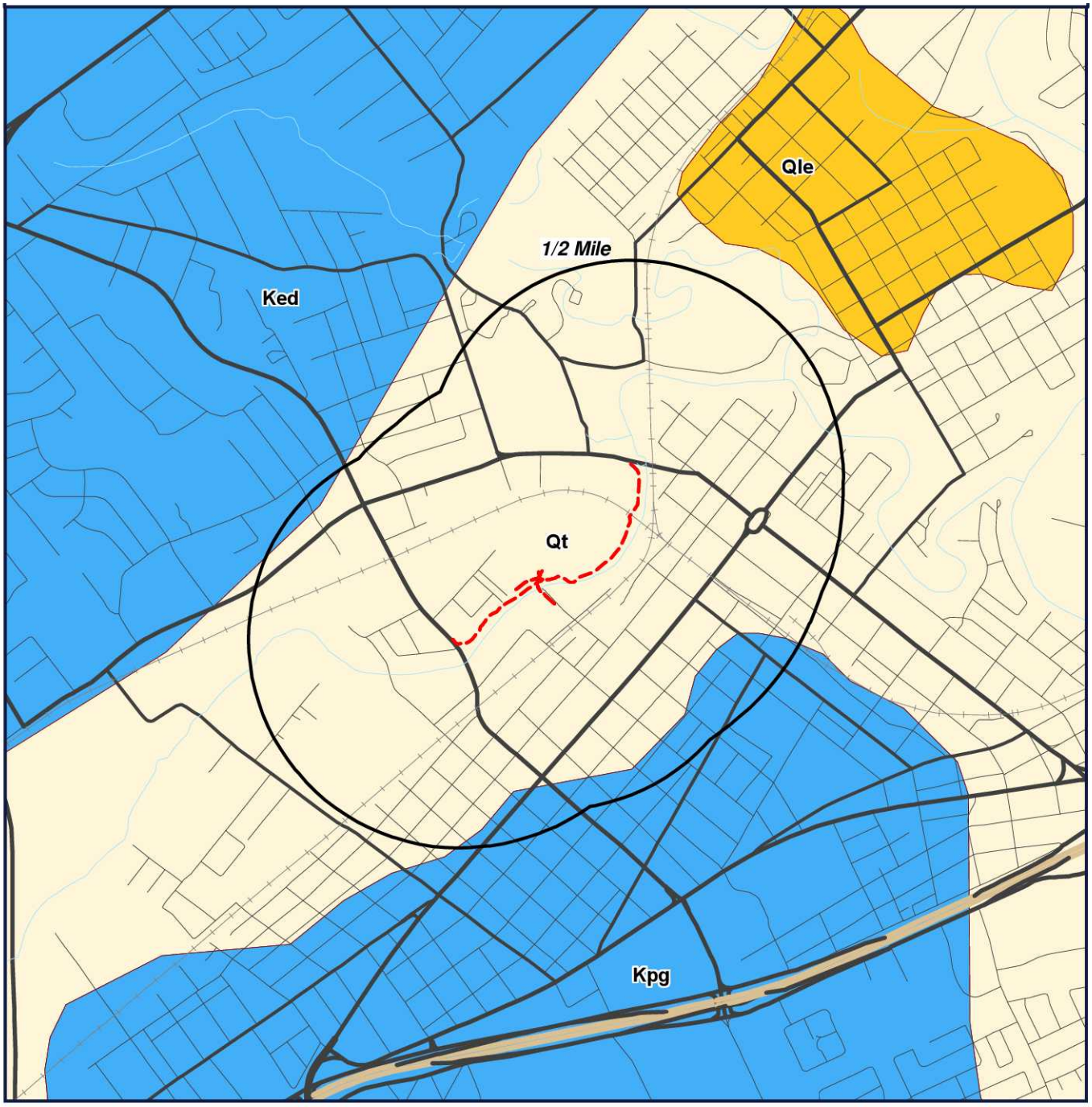
Soil Surveys

The soil data used in this report is obtained from the Natural Resources Conservation Service (NRCS). The NRCS is the primary federal agency that works with private landowners to help them conserve, maintain and improve their natural resources. The soil survey contains information that can be applied in managing farms and ranches; in selecting sites for roads, ponds, buildings and other structures; and in determining the suitability of tracts of land for farming, industry and recreation. This data is available in select counties throughout the United States.

SOIL Code Definitions within Search Radius

BoB	Boerne fine sandy loam, 1 to 3 percent slopes, rarely flooded
ByA	Branyon clay, 0 to 1 percent slopes
GrC	Gruene clay, 1 to 5 percent slopes
HeC3	Heiden clay, 3 to 5 percent slopes, eroded
HoB	Houston Black clay, 1 to 3 percent slopes
KrA	Krum clay, 0 to 1 percent slopes
LeA	Lewisville silty clay, 0 to 1 percent slopes
LeB	Lewisville silty clay, 1 to 3 percent slopes
Oa	Oakalla silty clay loam, 0 to 1 percent slopes, rarely flooded
Ok	Oakalla silty clay loam, 0 to 2 percent slopes, frequently flooded
PuC	Purves clay, 1 to 5 percent slopes
SeD	Seawillow clay loam, 3 to 8 percent slopes
Tn	Tinn clay, 0 to 1 percent slopes, frequently flooded
W	Water

Geology Map



Target Property (TP)

Dry Comal Hike and Bike Trail
New Braunfels, Texas
78130

N
W E
S

0' 1000' 2000' 3000'
SCALE: 1" = 2000'

[Click here to access Satellite view]

GEOLOGY Report

US GEOLOGY

THE GEOLOGY DATA USED IN THIS REPORT ORIGINATES FROM THE USGS. THE FIRST STAGE IN DEVELOPING STATE DATABASES FOR THE CONTERMINOUS UNITED STATES WAS TO ACQUIRE DIGITAL VERSIONS OF ALL EXISTING STATE GEOLOGIC MAPS. ALTHOUGH A SIGNIFICANT NUMBER OF DIGITAL STATE MAPS ALREADY EXISTED, A NUMBER OF STATES LACKED THEM. FOR THESE STATES NEW DIGITAL COMPILATIONS WERE PREPARED IN COOPERATION WITH STATE GEOLOGIC SURVEYS OR BY THE NSA (NATIONAL SURVEYS AND ANALYSIS) PROJECT. THESE NEW DIGITAL STATE GEOLOGIC MAPS AND DATABASES WERE CREATED BY DIGITIZING ALREADY EXISTING PRINTED MAPS, OR, IN A FEW CASES, BY MERGING EXISTING LARGER SCALE DIGITAL MAPS.

GEOLOGY Definitions within Search Radius

GEOLOGY SYMBOL: **Ked**
UNIT NAME: **Edwards Limestone**
UNIT AGE: **Phanerozoic | Mesozoic | Cretaceous-Early**
UNIT DESCRIPTION:
Edwards Limestone
ADDITIONAL UNIT INFORMATION:
In Eastern part of Trans-Pecos and High Plains- Limestone, dolostone, and chert; ls. aphanitic to fine grained, massive to thin-bedded, hard, brittle, in part rudistid biostromes, much miliolid biosparite; dolostone fine to v. fine grained, porous, chert
ROCKTYPE/S: **limestone; dolostone (dolomite); chert**

GEOLOGY SYMBOL: **Kpg**
UNIT NAME: **Pecan Gap Chalk**
UNIT AGE: **Phanerozoic | Mesozoic | Cretaceous-Late [Gulfian]**
UNIT DESCRIPTION:
Pecan Gap Chalk
ADDITIONAL UNIT INFORMATION:
In East Texas and Gulf Coast to Rio Grande- Sherman Sheet (1967) in Collin County, upper 45 ft limest. in alternating intervals of soft, light to med. olive-gray limesand and hard, granular, dk bluish-gray limest., glauconitic with most of it in limesand
ROCKTYPE/S: **limestone; sand; clay or mud; limestone**

GEOLOGY SYMBOL: **Qt**
UNIT NAME: **Terrace deposits**
UNIT AGE: **Phanerozoic | Cenozoic | Quaternary | Pleistocene Holocene**
UNIT DESCRIPTION:
Terrace deposits
ADDITIONAL UNIT INFORMATION:
Sand, silt, clay, and gravel in various proportions, with gravel more prodominent in older, higher terrace deposits. Locally indurated with calcium carbonate (caliche) in terraces along streams. Along Colorado River clasts mostly limest., chert, quartz,
ROCKTYPE/S: **terrace; sand; gravel; silt; clay or mud**

ATTACHMENT D

WATER WELL REPORT

GeoPlus Water Well Report

Satellite view

Target Property:

Dry Comal Hike and Bike Trail
New Braunfels, Comal County, Texas 78130

Prepared For:

Raba Kistner Environmental-San Antonio

Order #: 111976
Job #: 248573
Project #: ASF18-097-00
Date: 07/25/2018

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Target Property Summary

Target Property Information

Dry Comal Hike and Bike Trail
New Braunfels, Texas 78130

Coordinates
Corridor

USGS Quadrangle
New Braunfels West, TX

Geographic Coverage Information

County/Parish: Comal (TX)
ZipCode(s):
New Braunfels TX: 78130

Database Radius Summary

FEDERAL LISTING

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
NWIS	0.5000	0	0	2	7	NS	NS	9
SUB-TOTAL		0	0	2	7	0	0	9

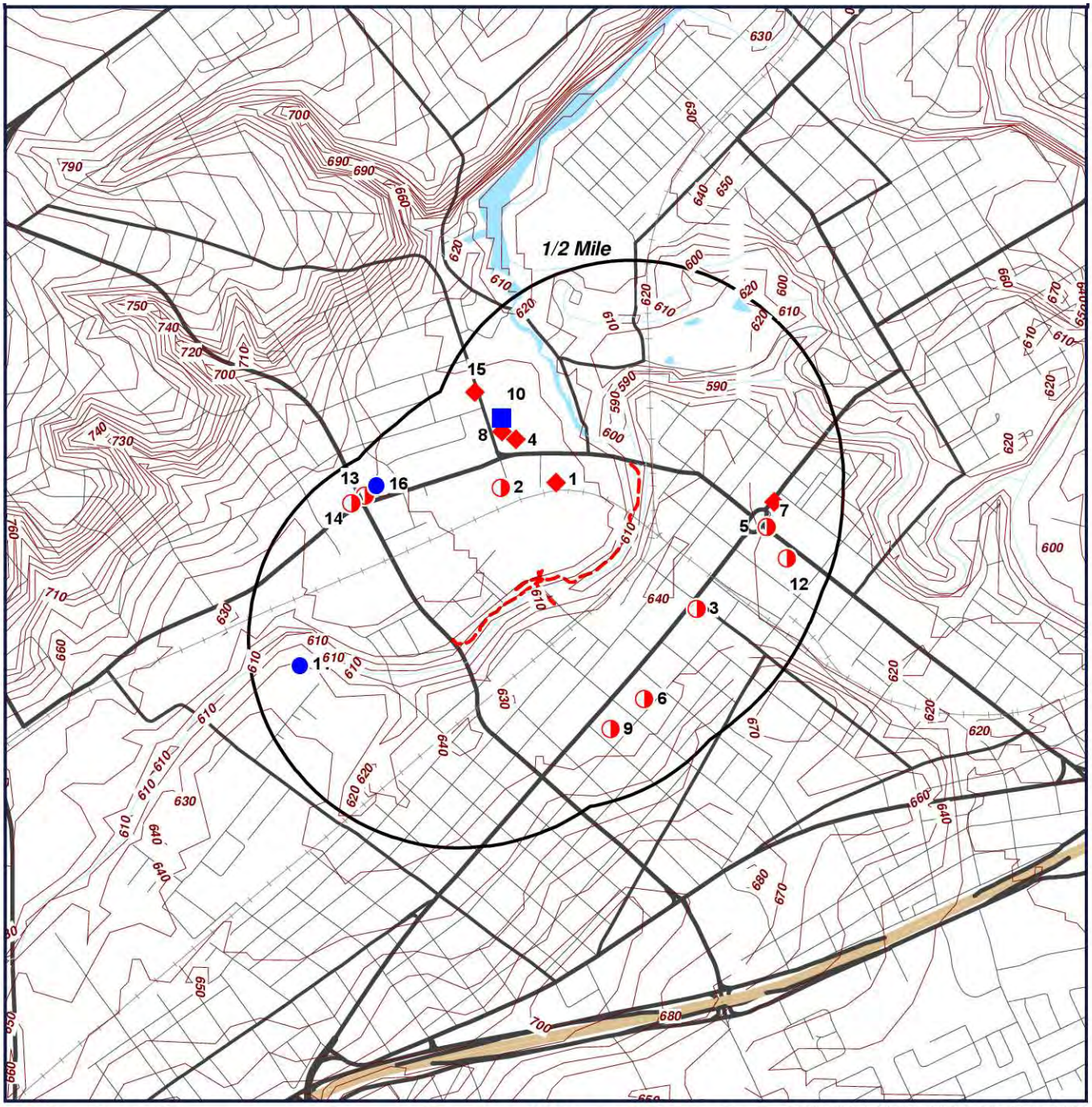
Database Radius Summary

STATE (TX) LISTING

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
SDRD	0.5000	0	0	9	64	NS	NS	73
TCEQ	0.5000	0	0	0	2	NS	NS	2
TWDB	0.5000	0	0	2	6	NS	NS	8
WUD	0.5000	0	0	0	0	NS	NS	0
SUB-TOTAL		0	0	11	72	0	0	83
TOTAL		0	0	13	79	0	0	92

NOTES:
NS = NOT SEARCHED
TP/AP = TARGET PROPERTY/ADJACENT PROPERTY

Waterwell Map



Click here to access Satellite view

Located Sites Summary

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address	PAGE #
1	NWIS	00419872	0.204 mi. W (1077 ft.)	DX-68-23-616A		10
1	NWIS	00419873	0.204 mi. W (1077 ft.)	DX-68-23-616B		12
1	TWDB	68-23-616	0.189 mi. WSW (998 ft.)	EDWARDS AQUIFER AUTHORITY - SOUTH WELL		14
1	TWDB	68-23-623	0.187 mi. W (987 ft.)	EDWARDS AQUIFER AUTHORITY - NORTH WELL		30
2	SDRD	TX211635	0.222 mi. NNW (1172 ft.)	TOM GRANGER/LANDA PLAZA SHOPPING CENTER	315 LANDA STREET, NEW BRAUNFELS, TX 78130	31
2	SDRD	TX211637	0.222 mi. NNW (1172 ft.)	TOM GRANGER/LANDA PLAZA SHOPPING CENTER	315 LANDA STREET, NEW BRAUNFELS, TX 78130	32
2	SDRD	TX211679	0.222 mi. NNW (1172 ft.)	TOM GRANGER/LANDA PLAZA SHOPPING CENTER	315 LANDA STREET, NEW BRAUNFELS, TX 78130	33
2	SDRD	TX211680	0.222 mi. NNW (1172 ft.)	TOM GRANGER/LANDA PLAZA SHOPPING CENTER	315 LANDA STREET, NEW BRAUNFELS, TX 78130	34
2	SDRD	TX211681	0.222 mi. NNW (1172 ft.)	TOM GRANGER/LANDA PLAZA SHOPPING CENTER	315 LANDA STREET, NEW BRAUNFELS, TX 78130	35
2	SDRD	TX211691	0.222 mi. NNW (1172 ft.)	TOM GRANGER/LANDA PLAZA SHOPPING CENTER	315 LANDA STREET, NEW BRAUNFELS, TX 78130	36
2	SDRD	TX213560	0.222 mi. NNW (1172 ft.)	TOM GRANGER/LANDA PLAZA SHOPPING CENTER	315 LANDA STREET, NEW BRAUNFELS, TX 78130	37
2	SDRD	TX213561	0.222 mi. NNW (1172 ft.)	TOM GRANGER/LANDA PLAZA SHOPPING CENTER	315 LANDA STREET, NEW BRAUNFELS, TX 78130	38
3	SDRD	TX452366	0.241 mi. ESE (1272 ft.)	CLASSEN CUSTOM HOMES	417 WEST SAN ANTONIO STREET, NEW BRAUNFELS, TX 78130	39
4	NWIS	00419875	0.302 mi. W (1595 ft.)	DX-68-23-617		40
4	NWIS	00419876	0.302 mi. W (1595 ft.)	DX-68-23-618		42
4	TWDB	68-23-617	0.289 mi. W (1526 ft.)	EDWARDS AQUIFER AUTHORITY		44
4	TWDB	68-23-618	0.289 mi. W (1526 ft.)	EDWARDS AQUIFER AUTHORITY		56

Located Sites Summary

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address	PAGE #
5	SDRD	TX162886	0.305 mi. E (1610 ft.)	TXDOT	IH 35 @ S WATER LANE, NEW BRAUNFELS, TX 78130	69
5	SDRD	TX162890	0.305 mi. E (1610 ft.)	TXDOT	IH 35 @ S WATER LANE, NEW BRAUNFELS, TX 78130	70
5	SDRD	TX162891	0.305 mi. E (1610 ft.)	TXDOT	IH 35 @ S WATER LANE, NEW BRAUNFELS, TX 78130	71
5	SDRD	TX162892	0.305 mi. E (1610 ft.)	TXDOT	IH 35 @ S WATER LANE, NEW BRAUNFELS, TX 78130	72
5	SDRD	TX162893	0.305 mi. E (1610 ft.)	TXDOT	IH 35 @ S WATER LANE, NEW BRAUNFELS, TX 78130	73
5	SDRD	TX162894	0.305 mi. E (1610 ft.)	TXDOT	IH 35 @ S WATER LANE, NEW BRAUNFELS, TX 78130	74
5	SDRD	TX162895	0.305 mi. E (1610 ft.)	TXDOT	IH 35 @ S WATER LANE, NEW BRAUNFELS, TX 78130	75
5	SDRD	TX162896	0.305 mi. E (1610 ft.)	TXDOT	IH 35 @ S WATER LANE, NEW BRAUNFELS, TX 78130	76
5	SDRD	TX293852	0.305 mi. E (1610 ft.)	TETCO STORE #31	106 FM 306 S. IH-35, NEW BRAUNFELS, TX 78130	77
5	SDRD	TX293853	0.305 mi. E (1610 ft.)	TETCO STORE #31	106 FM 306 S. IH-35, NEW BRAUNFELS, TX 78130	78
5	SDRD	TX293854	0.305 mi. E (1610 ft.)	TETCO STORE #31	106 FM 306 S. IH-35, NEW BRAUNFELS, TX 78130	79
5	SDRD	TX293855	0.305 mi. E (1610 ft.)	TETCO STORE #31	106 FM 306 S. IH-35, NEW BRAUNFELS, TX 78130	80
5	SDRD	TX293856	0.305 mi. E (1610 ft.)	TETCO STORE #31	106 FM 306 S. IH-35, NEW BRAUNFELS, TX 78130	81
5	SDRD	TX293857	0.305 mi. E (1610 ft.)	TETCO STORE #31	106 FM 306 S. IH-35, NEW BRAUNFELS, TX 78130	82
5	SDRD	TX293858	0.305 mi. E (1610 ft.)	TETCO STORE #31	106 FM 306 S. IH-35, NEW BRAUNFELS, TX 78130	83
5	SDRD	TX314448	0.305 mi. E (1610 ft.)	COMAL PROPERTIES	110 US HIGHWAY 81, NEW BRAUNFELS, TX 78130	84
5	SDRD	TX314449	0.305 mi. E (1610 ft.)	COMAL PROPERTIES	110 US HIGHWAY 81, NEW BRAUNFELS, TX 78130	85
5	SDRD	TX314450	0.305 mi. E (1610 ft.)	COMAL PROPERTIES	110 US HIGHWAY 81, NEW BRAUNFELS, TX 78130	86
5	SDRD	TX314451	0.305 mi. E (1610 ft.)	COMAL PROPERTIES	110 US HIGHWAY 81, NEW BRAUNFELS, TX 78130	87
5	SDRD	TX376611	0.322 mi. E (1700 ft.)	MTG MANAGEMENT	MTG MANAGEMENT, NEW BRAUNSFELS, TX	88
5	SDRD	TX389686	0.322 mi. E (1700 ft.)	MTG MANAGEMENT	486 LANDA, NEW BRAUNSFELS, TX 78130	89
5	SDRD	TX389687	0.322 mi. E (1700 ft.)	MTG MANAGEMENT	486 LANDA, NEW BRAUNSFELS, TX 78130	90
5	SDRD	TX389688	0.322 mi. E (1700 ft.)	MTG MANAGEMENT	486 LANDA, NEW BRAUNSFELS, TX 78130	91
5	SDRD	TX448766	0.322 mi. E (1700 ft.)	MTG MANAGEMENT	486 LANDA, NEW BRAUNSFELS, TX 78129	92
6	SDRD	TX371358	0.315 mi. SE (1663 ft.)	CITY OF NEW BRAUNFELS	SH 46 & ALVES LANE, NEW BRAUNFELS, TX 78130	93

Located Sites Summary

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address	PAGE #
6	SDRD	TX371361	0.315 mi. SE (1663 ft.)	CITY OF NEW BRAUNFELS	SH 46 & ALVES LANE, NEW BRAUNFELS, TX 78130	94
6	SDRD	TX371369	0.315 mi. SE (1663 ft.)	CITY OF NEW BRAUNFELS	SH 46 & ALVES LANE, NEW BRAUNFELS, TX 78130	95
7	NWIS	00419868	0.332 mi. E (1753 ft.)	DX-68-24-414		96
7	SDRD	TX191529	0.317 mi. E (1674 ft.)	LOWER COLORADO RIVER AUTHORITY	NORTH OF HYDRO OUTFALL, NEW BRAUNFELS, TX 78130	98
7	SDRD	TX191545	0.317 mi. E (1674 ft.)	LOWER COLORADO RIVER AUTHORITY	ALONG COMAL RIVER/E. OF WURSTFEST BLDG., NEW BRAUNFELS, TX 78130	99
7	SDRD	TX191694	0.317 mi. E (1674 ft.)	LOWER COLORADO RIVER AUTHORITY	ALONG COMAL RIVER/E. OF WURSTFEST BLDG., NEW BRAUNFELS, TX 78130	100
7	SDRD	TX191703	0.317 mi. E (1674 ft.)	LOWER COLORADO RIVER AUTHORITY	NEAR COMAL RIVER/S.E. OF WURSTFEST BLDG., NEW BRAUNFELS, TX 78130	101
7	SDRD	TX191705	0.317 mi. E (1674 ft.)	LOWER COLORADO RIVER AUTHORITY	NEAR COMAL RIVER/S.E. OF WURSTFEST BLDG., NEW BRAUNFELS, TX 78130	102
7	SDRD	TX191727	0.317 mi. E (1674 ft.)	LOWER COLORADO RIVER AUTHORITY	NEAR WURSTFEST'S NORTH GATE, NEW BRAUNFELS, TX 78130	103
7	SDRD	TX191728	0.317 mi. E (1674 ft.)	LOWER COLORADO RIVER AUTHORITY	EAST OF WURSTFEST HALL, NEW BRAUNFELS, TX 78130	104
7	SDRD	TX191729	0.317 mi. E (1674 ft.)	LOWER COLORADO RIVER AUTHORITY	PARKING LOT OF SOUTH WURSTFEST HALL, NEW BRAUNFELS, TX 78130	105
7	SDRD	TX191730	0.317 mi. E (1674 ft.)	LOWER COLORADO RIVER AUTHORITY	WEST OF WURSTFEST HALL, NEW BRAUNFELS, TX 78130	106
7	TWDB	68-24-414	0.332 mi. E (1753 ft.)	LCRA COMAL PLANT #2		107
8	NWIS	00419881	0.326 mi. WNW (1721 ft.)	DX-68-23-622		110
8	TWDB	68-23-622	0.326 mi. WNW (1721 ft.)	LCRA COMAL PLANT #1		112
9	SDRD	TX407651	0.331 mi. SSE (1748 ft.)	MCKENNA FOUNDATION	801 WEST SAN ANTONIO ST, NEW BRAUNFELS, TX 78130	115
10	NWIS	00419882	0.336 mi. WNW (1774 ft.)	DX-68-23-6 (NEW BRAUNFELS EUWD TEST)		116
11	TCEQ	TX227400	0.38 mi. W (2006 ft.)	EDWARDS UNDERGROUND WATER DISTRICT		118
12	SDRD	TX173110	0.39 mi. ESE (2059 ft.)	LOWER COLORADO RIVER AUTHORITY	NE CORNER INTER. LANDA PARK/LANDA PARK DR., NEW BRAUNFELS, TX 78130	121
12	SDRD	TX173111	0.39 mi. ESE (2059 ft.)	LOWER COLORADO RIVER AUTHORITY	NE CORNER INTER. LANDA PARK/LANDA PARK DR., NEW BRAUNFELS, TX 78130	122
12	SDRD	TX173112	0.39 mi. ESE (2059 ft.)	LOWER COLORADO RIVER AUTHORITY	NE CORNER INTER. LANDA PARK/LANDA PARK DR., NEW BRAUNFELS, TX 78130	123
12	SDRD	TX173113	0.39 mi. ESE (2059 ft.)	LOWER COLORADO RIVER AUTHORITY	NE CORNER INTER. LANDA PARK/LANDA PARK DR., NEW BRAUNFELS, TX 78130	124
12	SDRD	TX173114	0.39 mi. ESE (2059 ft.)	LOWER COLORADO RIVER AUTHORITY	NE CORNER INTER. LANDA PARK/LANDA PARK DR., NEW BRAUNFELS, TX 78130	125

Located Sites Summary

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address	PAGE #
12	SDRD	TX173115	0.39 mi. ESE (2059 ft.)	LOWER COLORADO RIVER AUTHORITY	NE CORNER INTER. LANDA PARK/LANDA PARK DR., NEW BRAUNFELS, TX 78130	126
12	SDRD	TX173116	0.39 mi. ESE (2059 ft.)	LOWER COLORADO RIVER AUTHORITY	NE CORNER INTER. LANDA PARK/LANDA PARK DR., NEW BRAUNFELS, TX 78130	127
12	SDRD	TX173118	0.39 mi. ESE (2059 ft.)	LOWER COLORADO RIVER AUTHORITY	NE CORNER INTER. LANDA PARK/LANDA PARK DR., NEW BRAUNFELS, TX 78130	128
12	SDRD	TX173120	0.39 mi. ESE (2059 ft.)	LOWER COLORADO RIVER AUTHORITY	NE CORNER INTER. LANDA PARK/LANDA PARK DR., NEW BRAUNFELS, TX 78130	129
12	SDRD	TX173122	0.39 mi. ESE (2059 ft.)	LOWER COLORADO RIVER AUTHORITY	NE CORNER INTER. LANDA PARK/LANDA PARK DR., NEW BRAUNFELS, TX 78130	130
12	SDRD	TX173124	0.39 mi. ESE (2059 ft.)	LOWER COLORADO RIVER AUTHORITY	NE CORNER INTER. LANDA PARK/LANDA PARK DR., NEW BRAUNFELS, TX 78130	131
12	SDRD	TX173126	0.39 mi. ESE (2059 ft.)	LOWER COLORADO RIVER AUTHORITY	NE CORNER INTER. LANDA PARK/LANDA PARK DR., NEW BRAUNFELS, TX 78130	132
12	SDRD	TX173127	0.39 mi. ESE (2059 ft.)	LOWER COLORADO RIVER AUTHORITY	NE CORNER INTER. LANDA PARK/LANDA PARK DR., NEW BRAUNFELS, TX 78130	133
12	SDRD	TX173132	0.39 mi. ESE (2059 ft.)	LOWER COLORADO RIVER AUTHORITY	NE CORNER INTER. LANDA PARK/LANDA PARK DR., NEW BRAUNFELS, TX 78130	134
12	SDRD	TX173133	0.39 mi. ESE (2059 ft.)	LOWER COLORADO RIVER AUTHORITY	NE CORNER INTER. LANDA PARK/LANDA PARK DR., NEW BRAUNFELS, TX 78130	135
12	SDRD	TX173134	0.39 mi. ESE (2059 ft.)	LOWER COLORADO RIVER AUTHORITY	NE CORNER INTER. LANDA PARK/LANDA PARK DR., NEW BRAUNFELS, TX 78130	136
12	SDRD	TX173135	0.39 mi. ESE (2059 ft.)	LOWER COLORADO RIVER AUTHORITY	NE CORNER INTER. LANDA PARK/LANDA PARK DR., NEW BRAUNFELS, TX 78130	137
12	SDRD	TX173165	0.39 mi. ESE (2059 ft.)	LOWER COLORADO RIVER AUTHORITY	NE CORNER INTER. LANDA PARK/LANDA PARK DR., NEW BRAUNFELS, TX 78130	138
12	SDRD	TX173166	0.39 mi. ESE (2059 ft.)	LOWER COLORADO RIVER AUTHORITY	NE CORNER INTER. LANDA PARK/LANDA PARK DR., NEW BRAUNFELS, TX 78130	139
12	SDRD	TX173171	0.39 mi. ESE (2059 ft.)	LOWER COLORADO RIVER AUTHORITY	NE CORNER INTER. LANDA PARK/LANDA PARK DR., NEW BRAUNFELS, TX 78130	140
13	SDRD	TX319328	0.413 mi. NW (2181 ft.)	MAJOR BRAND GASOLINE	486 LANDA ST. @ HWY 46, NEW BRAUNFELS, TX 78130	141
13	SDRD	TX319342	0.413 mi. NW (2181 ft.)	MAJOR BRAND GASOLINE	486 LANDA ST. @ HWY 46, NEW BRAUNFELS, TX 78130	142
13	SDRD	TX319345	0.413 mi. NW (2181 ft.)	MAJOR BRAND GASOLINE	486 LANDA ST. @ HWY 46, NEW BRAUNFELS, TX 78130	143
13	SDRD	TX319346	0.413 mi. NW (2181 ft.)	MAJOR BRAND GASOLINE	486 LANDA ST. @ HWY 46, NEW BRAUNFELS, TX 78130	144
13	SDRD	TX343646	0.413 mi. NW (2181 ft.)	MAJOR BRAND GASOLINE	486 WEST LANDA, NEW BRAUNFELS, TX	145
13	SDRD	TX343647	0.413 mi. NW (2181 ft.)	MAJOR BRAND GASOLINE	486 WEST LANDA, NEW BRAUNFELS, TX	146
14	SDRD	TX346743	0.416 mi. NW (2196 ft.)	HEB GROCERY COMPANY, LP	955 NORTH WALNUT AVE., NEW BRAUNFELS, TX 78130	147
15	NWIS	00419886	0.435 mi. WNW (2297 ft.)	DX-68-23-619A		148
15	NWIS	00419887	0.435 mi. WNW (2297 ft.)	DX-68-23-619B		150

Located Sites Summary

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address	PAGE #
15	TWDB	68-23-619	0.421 mi. WNW (2223 ft.)	EDWARDS AQUIFER AUTHORITY - NE WELL		152
15	TWDB	68-23-624	0.421 mi. WNW (2223 ft.)	EDWARDS AQUIFER AUTHORITY - SW WELL		177
16	TCEQ	TX230010	0.423 mi. NNW (2233 ft.)	EDWARDS UNDERGROUND WATER DISTRICT		178

MAP ID# 1 **Distance from Property: 0.204 mi. (1,077 ft.) W**

GEOSEARCH ID: **00419872**
REPORTING AGENCY: **US GEOLOGICAL SURVEY**
SITE IDENTIFICATION NUMBER: **294215098075801**
STATION NAME: **DX-68-23-616A**
SITE TYPE: **WELL**
LATITUDE: **29.704391240**
LONGITUDE: **-98.133064300**
DISTRICT CODE: **48**
STATE CODE: **48**
COUNTY CODE: **091**
COUNTRY CODE: **US**
LAND NET LOCATION DESCRIPTION: **NOT REPORTED**
NAME OF LOCATION MAP: **NEW BRAUNFELS WES**
SCALE OF LOCATION MAP: **24000**
ALTITUDE OF GAGE/LAND SURFACE: **635.7**
METHOD OF ALTITUDE DETERMINED: **LEVEL OR OTHER SURVEYED METHOD**
ALTITUDE ACCURACY: **1**
ALTITUDE DATUM: **NGVD29**
HYDROLOGIC UNIT CODE: **12100202**
DRAINAGE BASIN CODE: **NOT REPORTED**
TOPOGRAPHIC SETTING CODE: **T**
DATE OF FIRST CONSTRUCTION: **09/01/1989**
DATE SITE ESTABLISHED OR INVENTORIED: **19890901**
DRAINAGE AREA: **NOT REPORTED**
CONTRIBUTING DRAINAGE AREA: **NOT REPORTED**
MEAN GREENWICH TIME OFFSET: **CST**
LOCAL STANDARD TIME FLAG: **Y**
DATA RELIABILITY: **DATA HAVE BEEN CHECKED BY THE REPORTING AGENCY**
LOCAL AQUIFER: **NOT REPORTED**
LOCAL AQUIFER TYPE CODE: **C**
NATIONAL AQUIFER CODE: **S500EDRTRN**
WELL DEPTH: **576 FEET**
HOLE DEPTH: **936.5 FEET**
SOURCE OF DEPTH DATA: **G**
PROJECT NUMBER: **4648-00271**
REAL-TIME DATA FLAG: **0**
PEAK-STREAMFLOW DATA BEGIN DATE: **--**
PEAK-STREAMFLOW DATA END DATE: **--**
PEAK-STREAMFLOW DATA COUNT: **0**
WATER-QUALITY DATA BEGIN DATE: **1989-09-06**
WATER-QUALITY DATA END DATE: **--**
WATER-QUALITY DATA COUNT: **21**
FIELD WATER-LEVEL MEASUREMENTS BEGIN DATE: **--**
FIELD WATER-LEVEL MEASUREMENTS END DATE: **--**

FIELD WATER-LEVEL MEASUREMENTS COUNT: **0**

SITE-VISIT DATA BEGIN DATE: **--**

SITE-VISIT DATA END DATE: **--**

SITE-VISIT DATA COUNT: **0**

Back to Report Summary

MAP ID# 1 **Distance from Property: 0.204 mi. (1,077 ft.) W**

GEOSEARCH ID: **00419873**
REPORTING AGENCY: **US GEOLOGICAL SURVEY**
SITE IDENTIFICATION NUMBER: **294215098075802**
STATION NAME: **DX-68-23-616B**
SITE TYPE: **WELL**
LATITUDE: **29.704391240**
LONGITUDE: **-98.133064300**
DISTRICT CODE: **48**
STATE CODE: **48**
COUNTY CODE: **091**
COUNTRY CODE: **US**
LAND NET LOCATION DESCRIPTION: **NOT REPORTED**
NAME OF LOCATION MAP: **NEW BRAUNFELS WES**
SCALE OF LOCATION MAP: **24000**
ALTITUDE OF GAGE/LAND SURFACE: **635**
METHOD OF ALTITUDE DETERMINED: **LEVEL OR OTHER SURVEYED METHOD**
ALTITUDE ACCURACY: **1**
ALTITUDE DATUM: **NGVD29**
HYDROLOGIC UNIT CODE: **12100202**
DRAINAGE BASIN CODE: **NOT REPORTED**
TOPOGRAPHIC SETTING CODE: **T**
DATE OF FIRST CONSTRUCTION: **09/01/1989**
DATE SITE ESTABLISHED OR INVENTORIED: **19890901**
DRAINAGE AREA: **NOT REPORTED**
CONTRIBUTING DRAINAGE AREA: **NOT REPORTED**
MEAN GREENWICH TIME OFFSET: **CST**
LOCAL STANDARD TIME FLAG: **Y**
DATA RELIABILITY: **DATA HAVE BEEN CHECKED BY THE REPORTING AGENCY**
LOCAL AQUIFER: **NOT REPORTED**
LOCAL AQUIFER TYPE CODE: **C**
NATIONAL AQUIFER CODE: **S500EDRTRN**
WELL DEPTH: **738 FEET**
HOLE DEPTH: **936.5 FEET**
SOURCE OF DEPTH DATA: **G**
PROJECT NUMBER: **4648-00271**
REAL-TIME DATA FLAG: **0**
PEAK-STREAMFLOW DATA BEGIN DATE: **--**
PEAK-STREAMFLOW DATA END DATE: **--**
PEAK-STREAMFLOW DATA COUNT: **0**
WATER-QUALITY DATA BEGIN DATE: **1990-01-11**
WATER-QUALITY DATA END DATE: **--**
WATER-QUALITY DATA COUNT: **17**
FIELD WATER-LEVEL MEASUREMENTS BEGIN DATE: **--**
FIELD WATER-LEVEL MEASUREMENTS END DATE: **--**

FIELD WATER-LEVEL MEASUREMENTS COUNT: **0**

SITE-VISIT DATA BEGIN DATE: **--**

SITE-VISIT DATA END DATE: **--**

SITE-VISIT DATA COUNT: **0**

Back to Report Summary

MAP ID# 1 **Distance from Property: 0.189 mi. (998 ft.) WSW**

STATE ID: **68-23-616**
OWNER'S NAME: **EDWARDS AQUIFER AUTHORITY - SOUTH WELL**
DATE DRILLED: **09/00/1989**
DEPTH DRILLED: **576'**
WATER USAGE: **UNUSED**
LONGITUDE: **-98**
LATITUDE: **30**
SOURCE: **TWDB**

FORM NO. 9-2904-A
Revised February 1987

Coded by PLR
Checked by
Entered by GBD 9 19 89

DX-68-23-616 (A) 616 (B)
File Code
Date 9-13-89

U.S. DEPT. OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
GROUND-WATER SITE SCHEDULE
General Site Data

AGENCY CODE (C4): USGS
SITE ID (C1): 294215098075801
616 → .02
PROJECT NO. (C6): 464800271
STATION NAME (C12): DX-68-23-616 (A)
616 B
LATITUDE (C9): 294215
LONGITUDE (C10): 0980758
LAT-LONG ACCURACY (C11): (S) F T M (sec. 5 sec. 10 sec. min)
DISTRICT (C6): 48
STATE (C7): 48
COUNTY or TOWN (C8): Comal
091 County code
LAND NET (C13): ¼ ¼ ¼ S section T township R range meridian
LOCATION MAP (C14): NEW BRAUNFELS WEST
MAP SCALE (C15): 1:24000
ALTITUDE (C16): 635.78 USGS Brass Plate
METHOD OF MEASUREMENT (C17): A L M (altimeter, level, map)
ACCURACY (C18): 20
HYDROLOGIC UNIT CODE (C20): 2 1 8 E D R D N
DRAINAGE BASIN CODE (C801):
TOPOGRAPHIC SETTING (C19): A B C D E F G H K L M O P S (T) U V W (alluvial fan, playa, stream channel, depression, dunes, flat, flood plain, hilltop, sinkhole, lake or swamp, mangrove swamp, offshore, pediment, hillside, terrace, undulating, valley flat, upland draw)
AGENCY USE (C803): (A) I O (active, inactive, Inventory only)
DATE INVENTORIED (C711): 09 (month) - 01 (day) - 1989 (year)
STATION TYPE (C802) (Place a 'Y' in the appropriate box): (Y) well
DATA TYPE (C804) (Place an 'A' (active), an 'I' (inactive), or an 'O' (inventory) in the appropriate box): WL cont. rec., WL int., QW cont. rec., QW int., State water use
INSTRUMENTS (C805) (Place a 'Y' in the appropriate box): digital recorder, graphic recorder, telemetry land line, telemetry radio, telemetry satellite, AHDAB, deflection meter, bubble gage, CR type recorder, weighing rain gage, tipping bucket rain gage

REMARKS (C808): BORE HAS TWO SAMPLING ZONES

EDWARDS UNDERGROUND WATER DISTRICT
TD-(956.5') (Plugged Back To 738')
Driller: Texas Water Wells
Drilled: Sept 1959

GROUND-WATER SITE DATA

DATA RELIABILITY (C3): [C] field checked, L poor location, M minimal data, I unchecked

SITE TYPE (C2): C collector, D drain, E excavation, I ...hole, M connector well, O multiple wells, P outcrop, T pond, W tunnel, X well, test hole

DATE OF CONSTRUCTION (C21): 09 (month) - [ ] (day) - 1989 (year)

USE OF SITE (C23): A shade, C standby, emer. supply, D drain, E geothermal, G seismic, H heat reservoir, M mine, O observation, R oil or gas, R recharge, S repressurize, T test, U unused, W withdrawal, X waste, Z destroyed

SECONDARY USE OF SITE (C301) (SEE USE OF SITE):

TERTIARY USE OF SITE (C302) (SEE USE OF SITE):

USE OF WATER (C24): A air cond., B bottling, C commercial, D dewater, E power, F fire, H domestic, I irrigation, J industrial (cooling), K mining, M medicinal, N industrial, P public supply, Q aquaculture, R recreation, S stock, T institutional, U unused, Y desalination, Z other

SECONDARY USE OF WATER (C25) (SEE USE OF WATER):

TERTIARY USE OF WATER (C26) (SEE USE OF WATER):

AQUIFER TYPE (C713): U unconfined, single, N unconfined, multiple, C confined, single, M confined, multiple, X mixed

PRIMARY AQUIFER (C714):

HOLE DEPTH (C27): 1936.5

WELL DEPTH (C28): 1936.5

SOURCE OF DEPTH DATA (C29): A other gov't., D driller, G geologist, L logs, M memory, O owner, R other reported, S reporting agency, Z other

WATER LEVEL (C30):

DATE WATER LEVEL MEASURED (C31) (Mandatory if C30, water level, has a value): [ ] (month) - [ ] (day) - 19[ ] (year)

METHOD OF WATER-LEVEL MEASUREMENT (C34): A airline, B analog, C calibrated airline, E estimated, G pressure gage, H calibrated press gage, L geophysical logs, M manometer, N non-rec. gage, R reported, S steel tape, T electric tape, V calibrated elec. tape, Z other

SITE STATUS FOR WATER LEVEL (C37): D dry, E recently flowing, F flowing, G nearby flowing, H nearby recently flowing, I injector site, J injector site, monitor, N measurement discon., O obstruction, P pumping, R recently pumped, S nearby pumping, T nearby recently pumped, V foreign substance, W well destroyed, X surface water effects, Z other

SOURCE OF WATER-LEVEL DATA (C33): A other gov't., D driller, G geologist, L logs, M memory, O owner, R other reported, S reporting agency, Z other

CONSTRUCTION DATA

RECORD TYPE (C754): CONS

RECORD SEQUENCE NO. (C723):

DATE OF CONSTRUCTION (C80): 09 (month) - [ ] (day) - 1989 (year)

NAME OF CONTRACTOR (C63): TEXWATERWELL

SOURCE OF DATA (C64): A other gov't., D driller, G geologist, L logs, M memory, O owner, R other reported, S reporting agency, Z other

METHOD OF CONSTRUCTION (C65): A air-rotary, B bored or augered, C cable tool, D dug, H hydraulic rotary, J jetted, P air percussion, R reverse rotary, T trenching, V driven, W drive wash, Z other

TYPE OF FINISH (C66): C porous concrete, F gravel w/perf., G gravel screen, H horiz gallery, O open end, P perf. or slotted, S screen, T sand point, W walled, X open hole, Z other

TYPE OF SEAL (C67): B bentonite, C clay, G cement grout, N none, Z other

BOTTOM OF SEAL (C68):

METHOD OF DEVELOPMENT (C69): A air-lift pump, B bailed, C compressed air, J jetted, N none, P pumped, S surged, Z other

HOURS OF DEVELOPMENT (C70):

SPECIAL TREATMENT (C71): C chemicals, D dry ice, E explosives, F deflocculent, H hydrofracturing, M mechanical, Z other

Send original copy by certified mail to: Texas Water Commission, P.O. Box 13087, Austin, Texas 78711 A.1 Please use black ink.

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

State of Texas WELL REPORT

DX 68-23-616

Texas Water Well Drillers Board
P.O. Box 13087
Austin, Texas 78711

1) OWNER EDWARDS UNDERGROUND WATER DISTRICT (Name) ADDRESS P.O. BOX 15830 SAN ANTONIO (Street or RFD) (City) TX. (State) 78212 (Zip)

2) LOCATION OF WELL: County COMAL . _____ miles in (NE, SW, etc.) direction from NEW BRAUNFELS (Town) TEXAS

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 AIR REV

6) WELL LOG:
Date Drilling: Started _____ 19__ Completed _____ 19__

DIAMETER OF HOLE		
Dia. (in.)	From (ft.)	To (ft.)
15	Surface	443
7 7/8	443	936.5

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	37	LEONA GRAVEL
37	178	PECAN GAP
178	315	AUSTIN CHALK
315	341	EAGLE FORD SHALE
341	388	BUDA LIME
388	433	DEL RIO CLAY
433	898	EDWARDS LIMESTONE
898	936.5	GLEN ROSE

(Use reverse side if necessary)

RECEIVED
SEP 09 1991
TEXAS WATER COMMISSION

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
10 3/4N		STEEL	0+2	443	
		See Attached			

9) CEMENTING DATA [Rule 287.44(1)]
Cemented from SURF ft. to 443 ft. No. of Sacks Used 254
_____ ft. to _____ ft. No. of Sacks Used _____
Method used PRESSURE
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]

11) WATER LEVEL:
Static level 8.8 ft. below land surface Date 2/5/90
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: 15-20 gpm with VARIED ft. drawdown after _____ 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 BY OWNER

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 TEXAS WATER WELLS (Type or print) WELL DRILLER'S LICENSE NO. 02586W

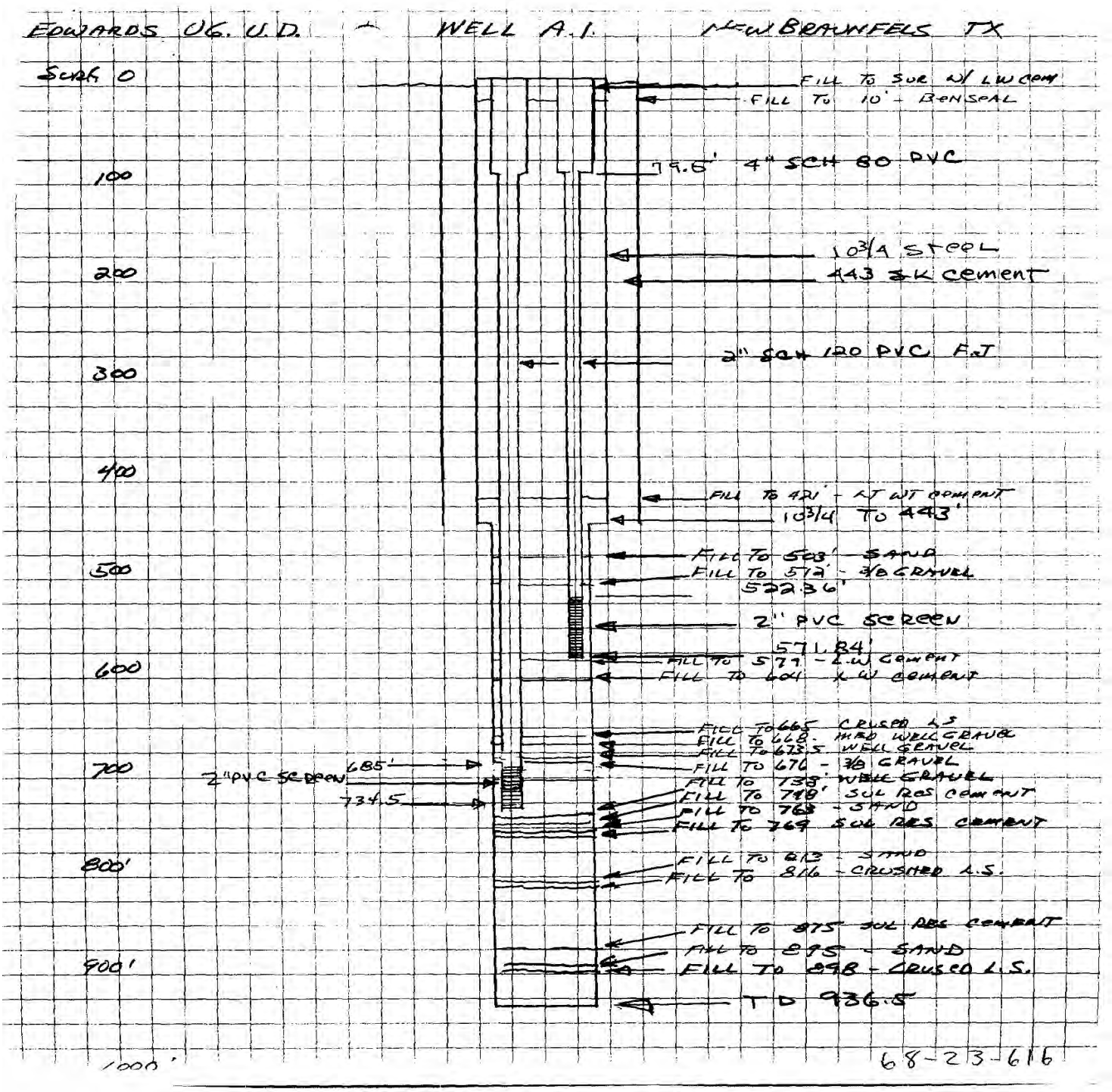
ADDRESS P.O. BOX 1239 (Street or RFD) TOMBALL (City) TX (State) 77377-1239 (Zip)

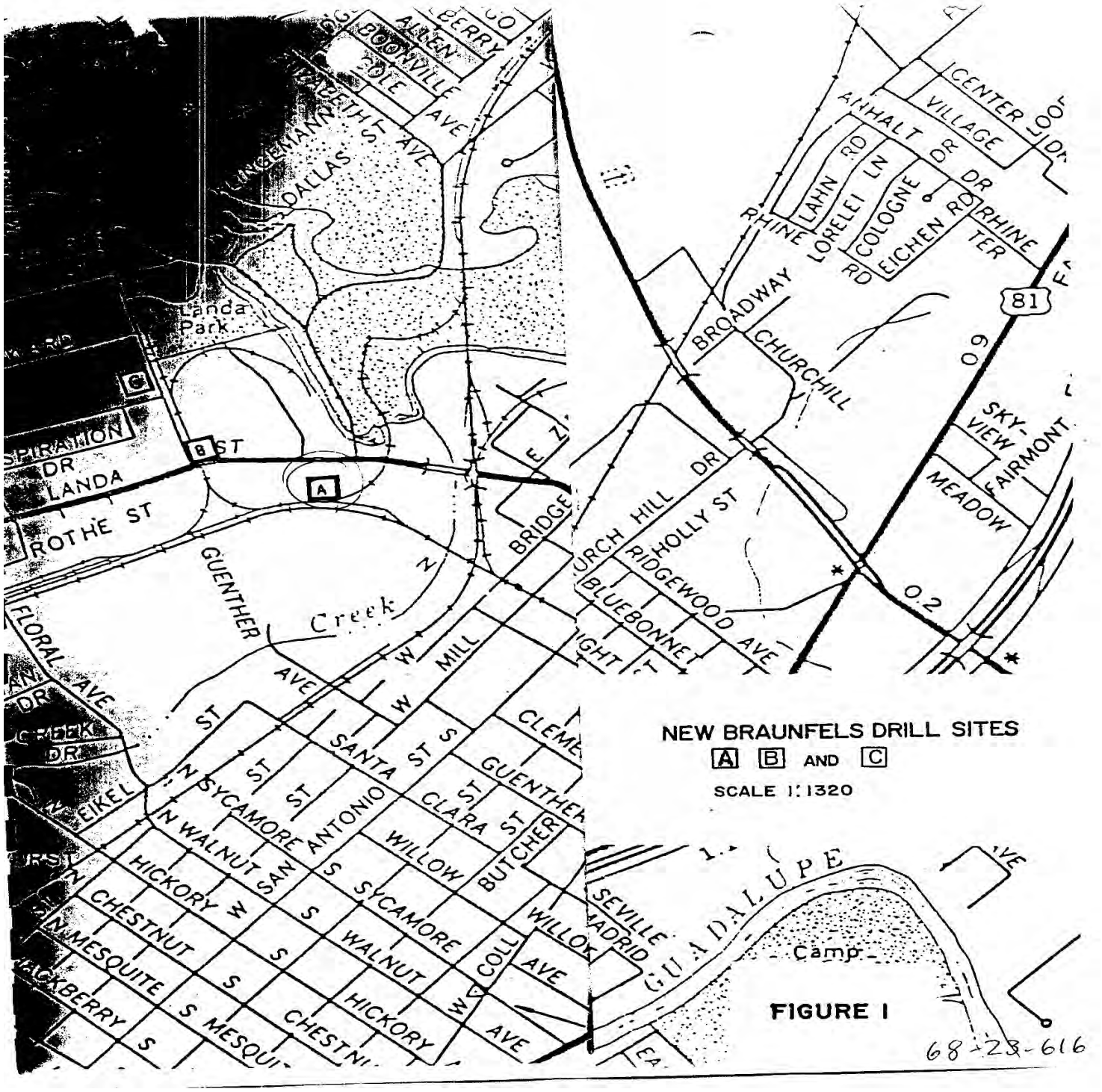
(Signed) _____ (Licensed Well Driller) (Signed) _____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only: Well No. _____ Located on map _____

WWD-012 (Rev. 05-18-90) TEXAS WATER COMMISSION COPY 68-23-616


EDWARDS UG. U.D. - WELL A.I. NEW BRAUNFELS TX
SURF. 0
100
200
300
400
500
600
700
800'
900'
1000'
FILL TO SUR W/ LW CEM
FILL TO 10' - BENSEAL
79.6' 4" SCH 80 PVC
10 3/4 STEEL
443 SK CEMENT
2" SCH 120 PVC FJT
FILL TO 421' - FJ WT CEMENT
10 3/4 TO 443'
FILL TO 503' - SAND
FILL TO 572' - 3/8 GRAVEL
522.36'
2" PVC SCREEN
571.84'
FILL TO 577 - LW CEMENT
FILL TO 601 - LW CEMENT
FILL TO 665 CRUSED LS
FILL TO 668 - MED WELL GRAVEL
FILL TO 673.5 - WELL GRAVEL
FILL TO 670 - 3/8 GRAVEL
FILL TO 738' - WELL GRAVEL
FILL TO 749' SOL RES CEMENT
FILL TO 763 - SAND
FILL TO 769 SOL RES CEMENT
FILL TO 813 - SAND
FILL TO 816 - CRUSHED L.S.
FILL TO 875 SOL RES CEMENT
FILL TO 895 - SAND
FILL TO 898 - CRUSED L.S.
TD 936.5
2" PVC SCREEN
685'
734.5
68-23-616


NEW BRAUNFELS DRILL SITES
A B AND C
SCALE 1:1320
FIGURE 1
68-23-616
Landa Park
GUENTHER
Creek
BROADWAY
CHURCHILL
RHINE
LORELEI LN
COLOGNE
EICHEN RD
RHINE TER
ANHALT DR
CENTER VILLAGE
SKY-VIEW
FAIRMONT
MEADOW
HOLLY ST
RIDGEWOOD AVE
BLUEBONNET
BRIDGE
MILL
SANTA
CLARA
ANTONIO
SYCAMORE
WILLOW
BUTCHER
WALNUT
HICKORY
CHESTNUT
MESQUITE
COLL
SEVILLE
MADRID
GUADALUPE
Camp
81
0.2

CONSTRUCTION HOLE DATA (3 sets shown)

RECORD TYPE (C758) HOLE RECORD SEQUENCE NO. (C724) [redacted] SEQUENCE NO. OF PARENT RECORD (C59) [redacted]

DEPTH TO TOP OF INTERVAL (C73) [redacted] DEPTH TO BOTTOM OF INTERVAL (C74) . DIAMETER OF INTERVAL (C75) .

RECORD SEQUENCE NO. (C724) [redacted]

DEPTH TO TOP OF INTERVAL (C73) [redacted] DEPTH TO BOTTOM OF INTERVAL (C74) . DIAMETER OF INTERVAL (C75) .

RECORD SEQUENCE NO. (C724) [redacted]

DEPTH TO TOP OF INTERVAL (C73) [redacted] DEPTH TO BOTTOM OF INTERVAL (C74) . DIAMETER OF INTERVAL (C75) .

CONSTRUCTION CASING DATA (3 sets shown)

RECORD TYPE (C758) CSNG RECORD SEQUENCE NO. (C725) [redacted] SEQUENCE NO. OF PARENT RECORD (C59) [redacted]

DEPTH TO TOP OF CASING (C77) [redacted] DEPTH TO BOTTOM OF CASING (C78) 444. DIAMETER OF CASING (C79) 10.

[1] CASING MATERIAL (C80) S CASING THICKNESS (C81) .

RECORD SEQUENCE NO. (C725) [redacted]

DEPTH TO TOP OF CASING (C77) [redacted] "Southwell" 77 DEPTH TO BOTTOM OF CASING (C78) 77. 517 DIAMETER OF CASING (C79) 4. 2.0"

[1] CASING MATERIAL (C80) P CASING THICKNESS (C81) .

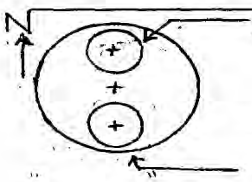
RECORD SEQUENCE NO. (C725) [redacted]

DEPTH TO TOP OF CASING (C77) [redacted] "Northwell" 76. DEPTH TO BOTTOM OF CASING (C78) 76. 680 DIAMETER OF CASING (C79) 4. 2.0

[1] CASING MATERIAL (C80) P CASING THICKNESS (C81) .

FOOTNOTE:

[1] CASING MATERIAL CODES: B brick, C concrete, D copper, G galv. iron, I wrought iron, M other metal, P PVC or plastic, R rock or stone, S steel, T tile, U coated steel, W wood, Z other material



Northwell "Deep" 4" Csg 0 — 76' well 616B
2" Csg 76' — 680'
2" Screen 680-730' — (Gravel 676' — 738)

Southwell "Shallow" well 616A
4" Csg 0 — 77'
2" Csg 77-517'
2" Screen 517-567' (Gravel 512-576)

CONSTRUCTION OPENINGS DATA (3 sets shown)

RECORD TYPE (C760) [redacted] RECORD SEQUENCE NO. (C726) [redacted] SEQUENCE NO. OF PARENT RECORD (C59) [redacted]

DEPTH TO TOP OF INTERVAL (C83) [redacted] DEPTH TO BOTTOM OF INTERVAL (C84) 936.5 DIAMETER OF INTERVAL (C87) 7.87

2 MATERIAL TYPE (C86) [ ] 3 TYPE OF OPENING (C85) [redacted] LENGTH OF OPENING (C89) [ ] WIDTH OF OPENING (C88) [ ]

RECORD SEQUENCE NO. (C726) [redacted]

DEPTH TO TOP OF INTERVAL (C83) [redacted] DEPTH TO BOTTOM OF INTERVAL (C84) 567 DIAMETER OF INTERVAL (C87) 2.0

Gravel outside Screen 512-576

2 MATERIAL TYPE (C86) P PVC 3 TYPE OF OPENING (C85) [redacted] LENGTH OF OPENING (C89) 50 WIDTH OF OPENING (C88) .350"

RECORD SEQUENCE NO. (C726) [redacted]

DEPTH TO TOP OF INTERVAL (C83) [redacted] DEPTH TO BOTTOM OF INTERVAL (C84) 730 DIAMETER OF INTERVAL (C87) 2.0

Gravel outside Screen 676-738'

2 MATERIAL TYPE (C86) [ ] PVC 3 TYPE OF OPENING (C85) [redacted] LENGTH OF OPENING (C89) 50 WIDTH OF OPENING (C88) .350

FOOTNOTES:

2 TYPE OF MATERIAL CODES FOR OPEN SECTIONS: B (brass or bronze), C (concrete), G (galv. iron), I (wrought iron), M (other metal), **P (PVC or plastic)**, R (stainless steel), S (steel), T (tile), Z (other)

3 TYPE OF OPENINGS CODES: F (fractured rock), L (louvered shuttered), M (mesh), **P (perf. or slotted)**, **R (wire-wound)**, S (screen, (unk.)), T (sand point), W (welded), X (open hole), Z (other)

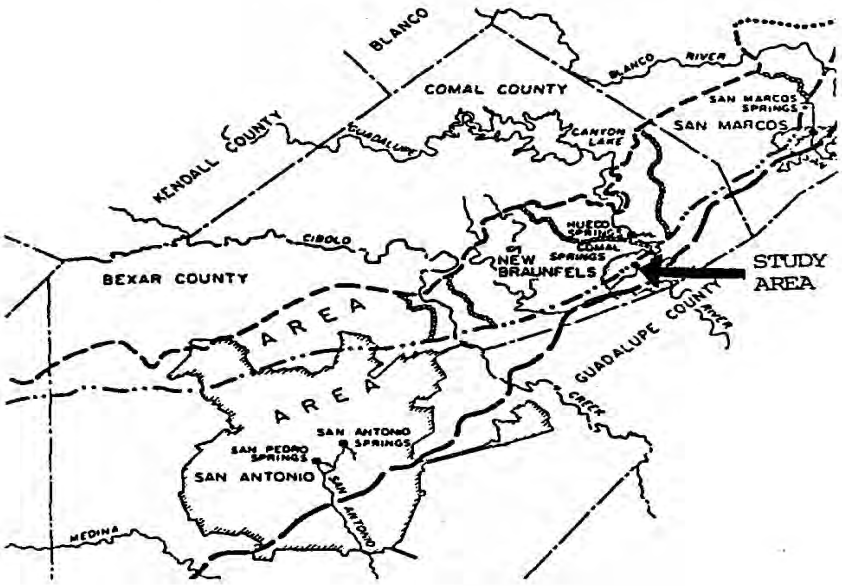
CONSTRUCTION MEASURE POINT DATA

RECORD TYPE (C766) [redacted] RECORD SEQUENCE NO. (C728) [redacted] BEGINNING DATE (C321) [ ] - [ ] - 19[ ] (month - day - year) ENDING DATE (C322) [ ] - [ ] - 19[ ] (month - day - year)

M.P. HEIGHT (C323) [ ] M.P. REMARKS (C324) [ ]

68-23-616

CONTRACT DOCUMENTS FOR THE NEW BRAUNFELS, TX. BAD-WATER LINE MONITORING WELLS DRILLING PROJECT

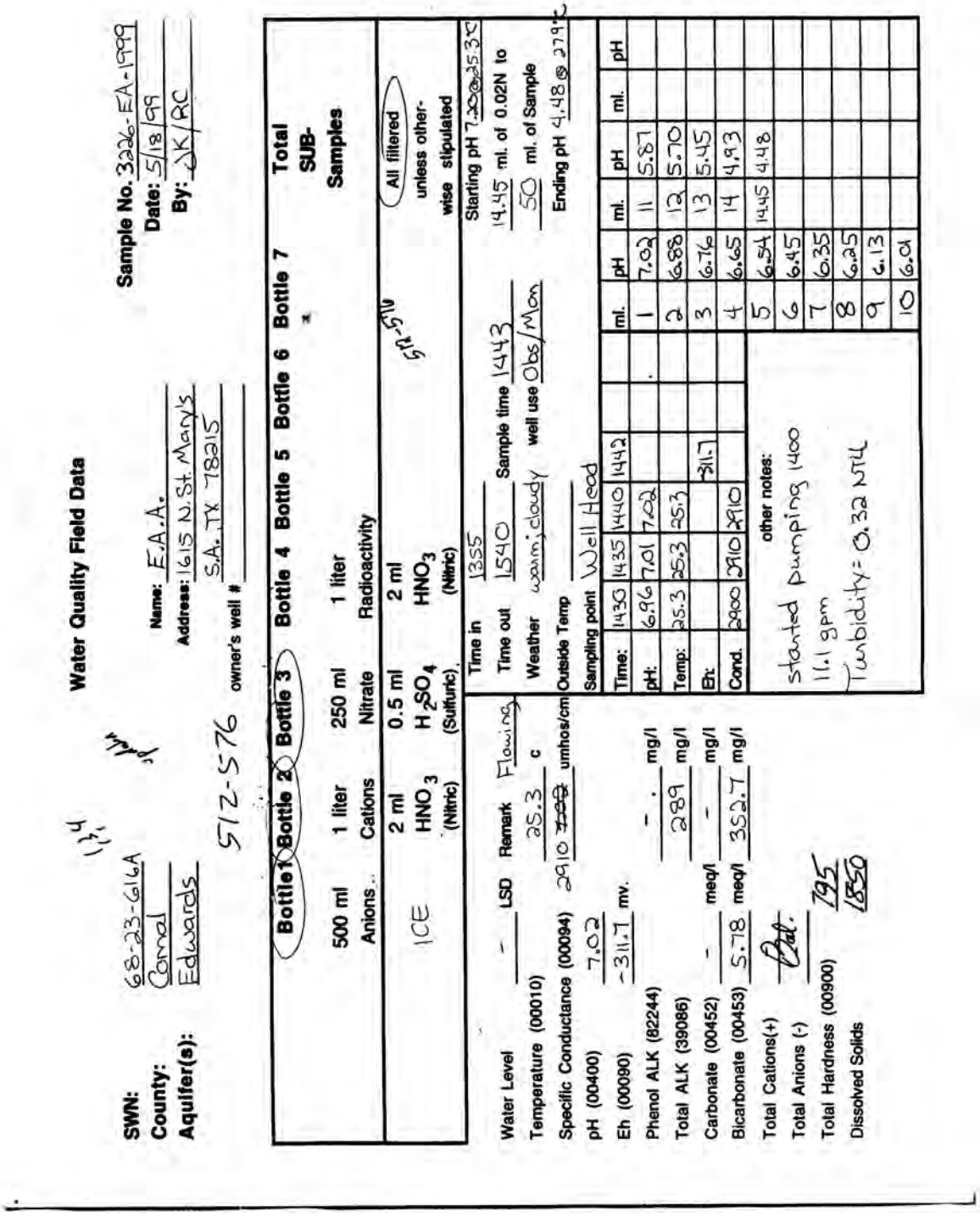


Edwards Underground

Water District

April 1989

68-23-616



Water Quality Field Data

SWN: 68-23-616A
County: Comal
Aquifer(s): Edwards

Name: E.A.A.
Address: 1615 N. St. Mary's
S.A. TX 78215

Sample No. 3226-EA-1999
Date: 5/18/99
By: JK/RC

512-576 owner's well #

Bottle 1	Bottle 2	Bottle 3	Bottle 4	Bottle 5	Bottle 6	Bottle 7	Total SUB-Samples
500 ml Anions	1 liter Cations	250 ml Nitrate	1 liter Radioactivity				
ICE	2 ml HNO_3 (Nitric)	0.5 ml H_2SO_4 (Sulfuric)	2 ml HNO_3 (Nitric)				All filtered unless otherwise stipulated

Water Level — LSD Remark Flowing
Temperature (00010) 25.3 c
Specific Conductance (00094) 2910 ~~2968~~ umhos/cm
pH (00400) 7.02
Eh (00090) -311.7 mv.
Phenol ALK (82244) — mg/l
Total ALK (39086) 289 mg/l
Carbonate (00452) — meq/l — mg/l
Bicarbonate (00453) 5.78 meq/l 352.7 mg/l
Total Cations(+) Cal.
Total Anions (-) 195
Total Hardness (00900) 1850
Dissolved Solids

Time in 1355
Time out 1540 Sample time 1443
Weather warm; cloudy well use Obs/Mon
Outside Temp
Sampling point Well Head

	Time:	pH:	Temp:	Eh:	Cond.
	1430	6.96	25.3		2900
	1435	7.01	25.3		2910
	1440	7.02	25.3	-311.7	2910
	1442				

ml.	pH	ml.	pH	ml.	pH
1	7.02	11	5.87		
2	6.88	12	5.70		
3	6.76	13	5.45		
4	6.65	14	4.93		
5	6.54	1445	4.48		
6	6.45				
7	6.35				
8	6.25				
9	6.13				
10	6.01				

Starting pH 7.20@25.3°C
1445 ml. of 0.02N to
50 ml. of Sample
Ending pH 4.48@ 27.9°C

other notes:
started pumping 1400
11.1 gpm
Turbidity = 0.32 NTU

Environmental Laboratory Services
The Solution Lab

FINAL ANALYSIS REPORT

LAB ID: 9907664 SAMPLE DESCRIPTION: Groundwater
COMPANY: TX Water Dev. Board SAMPLE DATE: 05/18/99
ACCT NO: SAMPLE TIME: 1443
REQUISITION No.: R10944 DATE RECEIVED: 05/24/99
LOCATION ID: 68-23-616A 512-576 REPORT DATE: 06/23/99

PARAMETER	RESULTS	UNITS	STORET #	PQL in WATER	DATE ANALYZED
Bromide	2.00	mg/L	71870	0.02	05/26/99
Chloride	534.0	mg/L	00941	1.5	05/26/99
Fluoride	2.99	mg/L	00950	0.01	05/26/99
Nit.,nitri/nitra-AFA	<0.020	mg/L	00630	0.010	05/26/99
Nitrogen, Kjeldahl	1.020	mg/L	00623	0.040	05/28/99
Nitrogen, ammonia	0.977	mg/L	00608	0.040	05/25/99
Phosphorus, Total	<0.040	mg/L	00665	0.040	05/28/99
Silica	15.30	mg/L	00955	0.50	05/27/99
Sulfate	535.00	mg/L	00946	1.50	05/26/99
Alkalinity, Total	263	mg/L	00410	1	05/25/99
Alkalinity, Phenol.	0	mg/L	00415	0	05/25/99
Boron, Dissolved	882.00	ug/L	01020	50.00	06/10/99
Cobalt, Diss. ICPMS	<1.0	ug/L	01035	1.0	06/04/99
Iron, Dissolved	134.00	ug/L	01046	50.00	06/10/99
Lithium, Diss. ICPMS	345.6	ug/L	01130	2.0	06/04/99
Molybdenum Dis ICPMS	<1.0	ug/L	01060	1.0	06/04/99
Potassium, Dissolved	21.10	mg/L	00935	0.20	06/10/99
Strontium, Dissolved	12100.00	ug/L	01080	20.00	06/10/99
Vanadium, Diss ICPMS	<1.0	ug/L	01085	1.0	06/04/99
Aluminum, Dis. ICPMS	<4.0	ug/L	01106	4.0	06/04/99
Arsenic, Diss. ICPMS	<2.0	ug/L	01000	2.0	06/04/99
Barium, Diss. ICPMS	23.9	ug/L	01005	1.0	06/04/99
Cadmium, Diss. ICPMS	<1.0	ug/L	01025	1.0	06/04/99
Calcium, Dissolved	149.00	mg/L	00915	0.20	06/10/99
Chromium, Diss ICPMS	<1.0	ug/L	01030	1.0	06/04/99
Copper, Diss. ICPMS	<2.0	ug/L	01040	2.0	06/04/99
Lead, Diss. ICPMS	<1.0	ug/L	01049	1.0	06/10/99
Magnesium, Dissolved	98.90	mg/L	00925	0.20	06/10/99
Manganese, Dis ICPMS	1.6	ug/L	01056	1.0	06/04/99
Nickel, Diss. ICPMS	2.1	ug/L	01065	1.0	06/04/99
Selenium, Dis. ICPMS	13.4	ug/L	01145	4.0	06/04/99
Sodium, Dissolved	318.00	mg/L	00930	0.20	06/10/99
Antimony, Dis. ICPMS	<1.0	ug/L	01095	1.0	06/04/99
Beryllium, Dis ICPMS	<1.0	ug/L	01010	1.0	06/04/99
Thallium, Diss ICPMS	<1.0	ug/L	01057	1.0	06/10/99
Zinc, Diss. ICPMS	<2.0	ug/L	01090	2.0	06/04/99

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Water Quality Field Data

Sample No. 3229-EA-1999
Date: 5/18/99
By: JK/RC

SWN: 68-23-616B
County: Comal
Aquifer(s): Edwards

Name: E.A.A.
Address: 1615 N St. Marys
SA, TX 78215
owner's well #

680-730

Bottle 1	Bottle 2	Bottle 3	Bottle 4	Bottle 5	Bottle 6	Bottle 7	Total SUB-Samples
500 ml Anions	1 liter Cations	250 ml Nitrate	1 liter Radioactivity				
ICE	2 ml HNO_3 (Nitric)	0.5 ml H_2SO_4 (Sulfuric)	2 ml HNO_3 (Nitric)				All filtered unless otherwise stipulated

Time in 1355
Time out 1543 Sample time 1452
Weather warm, cloudy well use Obs/Mon.
Outside Temp
Sampling point Well Head

Starting pH 7.24 @ 27.5°C
11.6 ml. of 0.02N to
50 ml. of Sample
Ending pH 4.46

Water Level	-	LSD	Remark	Flowing						ml.	pH	ml.	pH	ml.	pH
Temperature (00010)	26.1	c								1	7.02	11	5.15		
Specific Conductance (00094)	1700	umhos/cm								2	6.82	11.4	4.74		
pH (00400)	7.18									3	6.64				
Eh (00090)	-281.6	mv.								4	6.52				
Phenol ALK (82244)	-	mg/l								5	6.39				
Total ALK (39086)	232	mg/l								6	6.26				
Carbonate (00452)	-	meq/l								7	6.14				
Bicarbonate (00453)	4.64	meq/l	283.1	mg/l						8	5.99				
Total Cations(+)	Bal.									9	5.82				
Total Anions (-)										10	5.68				
Total Hardness (00900)	520														
Dissolved Solids	1040														

Time:	1431	1436	1441				
pH:	7.04	7.17	7.18				
Temp:	26.1	26.1	26.1				
Eh:				-281.6			
Cond.	1693	1690	1700				

other notes:
started pumping 1400
11.1 gpm
Turbidity = 0.05 NTU

Environmental Laboratory Services
The Solution Lab

FINAL ANALYSIS REPORT

LAB ID: 9907665 SAMPLE DESCRIPTION: Groundwater
COMPANY: TX Water Dev. Board SAMPLE DATE: 05/18/99
ACCT NO: SAMPLE TIME: 1452
REQUISITION No.: R10944 DATE RECEIVED: 05/24/99
LOCATION ID: 68-23-616B 680'-730' REPORT DATE: 06/23/99

PARAMETER	RESULTS	UNITS	STORET #	PQL in WATER	DATE ANALYZED
Bromide	1.01	mg/L	71870	0.02	05/26/99
Chloride	265.0	mg/L	00941	1.5	05/26/99
Fluoride	3.08	mg/L	00950	0.01	05/26/99
Nit.,nitri/nitra-AFA	<0.020	mg/L	00630	0.010	05/26/99
Nitrogen, Kjeldahl	0.493	mg/L	00623	0.040	05/28/99
Nitrogen, ammonia	0.433	mg/L	00608	0.040	05/25/99
Phosphorus, Total	0.060	mg/L	00665	0.040	05/28/99
Silica	15.40	mg/L	00955	0.50	05/27/99
Sulfate	284.00	mg/L	00946	1.50	05/26/99
Alkalinity, Total	208	mg/L	00410	1	06/14/99
Alkalinity, Phenol.	0	mg/L	00415	0	05/25/99
Boron, Dissolved	410.00	ug/L	01020	50.00	06/10/99
Cobalt, Diss. ICPMS	<1.0	ug/L	01035	1.0	06/04/99
Iron, Dissolved	87.00	ug/L	01046	50.00	06/10/99
Lithium, Diss. ICPMS	157.4	ug/L	01130	2.0	06/04/99
Molybdenum Dis ICPMS	<1.0	ug/L	01060	1.0	06/04/99
Potassium, Dissolved	11.00	mg/L	00935	0.20	06/10/99
Strontium, Dissolved	29800.00	ug/L	01080	20.00	06/14/99
Vanadium, Diss ICPMS	<1.0	ug/L	01085	1.0	06/04/99
Aluminum, Dis. ICPMS	<4.0	ug/L	01106	4.0	06/04/99
Arsenic, Diss. ICPMS	<2.0	ug/L	01000	2.0	06/04/99
Barium, Diss. ICPMS	20.8	ug/L	01005	1.0	06/04/99
Cadmium, Diss. ICPMS	<1.0	ug/L	01025	1.0	06/04/99
Calcium, Dissolved	92.50	mg/L	00915	0.20	06/10/99
Chromium, Diss ICPMS	<1.0	ug/L	01030	1.0	06/04/99
Copper, Diss. ICPMS	<2.0	ug/L	01040	2.0	06/04/99
Lead, Diss. ICPMS	<1.0	ug/L	01049	1.0	06/10/99
Magnesium, Dissolved	61.80	mg/L	00925	0.20	06/10/99
Manganese, Dis ICPMS	<1.0	ug/L	01056	1.0	06/04/99
Nickel, Diss. ICPMS	<1.0	ug/L	01065	1.0	06/04/99
Selenium, Dis. ICPMS	5.4	ug/L	01145	4.0	06/04/99
Sodium, Dissolved	151.00	mg/L	00930	0.20	06/10/99
Antimony, Dis. ICPMS	<1.0	ug/L	01095	1.0	06/04/99
Beryllium, Dis ICPMS	<1.0	ug/L	01010	1.0	06/04/99
Thallium, Diss ICPMS	<1.0	ug/L	01057	1.0	06/10/99
Zinc, Diss. ICPMS	<2.0	ug/L	01090	2.0	06/04/99

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LCRA Environmental Laboratory Services

Date: 11-Aug-00

CLIENT: Texas Water Development Board
Lab Order: 0006270 COC ID: 13826
Project: TWDB 9/99 thru 8/00
Lab ID: 0006270-14

Client Sample ID: 68-23-~~618~~ 616
Collection Date: 06/22/2000 4:37:00 PM
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	QC Batch	Date Analyzed
ICP METALS, DISSOLVED		E200.7					Analyst: BL
Calcium	92.8	0.200		mg/L	1	R5166	07/28/2000
Magnesium	60.7	0.200		mg/L	1	R5166	07/28/2000
Potassium	10.3	0.200		mg/L	1	R5166	07/28/2000
Sodium	141	0.700		mg/L	1	R5166	07/28/2000
ICP METALS, DISSOLVED		E200.7					Analyst: BL
Boron	345	50.0		µg/L	1	R5167	07/28/2000
Iron	529	50.0		µg/L	1	R5167	07/28/2000
Strontium	35600	200		µg/L	10	R5167	07/28/2000
ICPMS METALS, DISSOLVED		E200.8					Analyst: PJM
Aluminum	ND	4.00		µg/L	1	R5074	07/18/2000
Antimony	ND	1.00		µg/L	1	R5074	07/18/2000
Arsenic	ND	2.00		µg/L	1	R5074	07/18/2000
Barium	21.1	1.00		µg/L	1	R5074	07/18/2000
Beryllium	ND	1.00		µg/L	1	R5074	07/18/2000
Cadmium	ND	1.00		µg/L	1	R5074	07/18/2000
Chromium	5.18	1.00		µg/L	1	R5074	07/18/2000
Cobalt	ND	1.00		µg/L	1	R5074	07/18/2000
Copper	ND	2.00		µg/L	1	R5074	07/18/2000
Lead	ND	1.00		µg/L	1	R5074	07/18/2000
Lithium	205	2.00		µg/L	1	R5074	07/18/2000
Manganese	2.43	1.00		µg/L	1	R5074	07/18/2000
Molybdenum	ND	1.00		µg/L	1	R5074	07/18/2000
Nickel	1.20	1.00		µg/L	1	R5074	07/18/2000
Selenium	7.13	4.00		µg/L	1	R5074	07/18/2000
Thallium	ND	1.00		µg/L	1	R5074	07/18/2000
Vanadium	1.39	1.00		µg/L	1	R5074	07/18/2000
Zinc	ND	4.00		µg/L	1	R5074	07/18/2000
ANIONS BY ION CHROMATOGRAPHY		E300					Analyst: AMJ
Bromide	0.900	0.200		mg/L	10	R4885A	07/06/2000
Chloride	264	7.50		mg/L	5	R5354	08/10/2000
Fluoride	2.20	0.100		mg/L	10	R4885A	07/06/2000
Sulfate	300	7.50		mg/L	5	R5354	08/10/2000
ALKALINITY		M2320 B					Analyst: CL
Alkalinity, Phenolphthalein	ND	0		mg/L CaCO3	1	R4888	07/07/2000
Alkalinity, Total (As CaCO3)	216	2.00		mg/L CaCO3	1	R4888	07/07/2000
CATION/ANION BALANCE		CALCULATION					Analyst: AMJ

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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LCRA Environmental Laboratory Services

Date: *11-Aug-00*

CLIENT: Texas Water Development Board
Lab Order: 0006270 **COC ID:** 13826
Project: TWDB 9/99 thru 8/00
Lab ID: 0006270-14

Client Sample ID: 68-23-~~618~~ 616
Collection Date: 06/22/2000 4:37:00 PM
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	QC Batch	Date Analyzed
Cation/Anion Balance	Balanced	0		Date	1	R5358	08/10/2000
NITRATE AND NITRITE		**E353.2**					Analyst: **CL**
Nitrogen, Nitrate & Nitrite	ND	0.0200		mg/L	1	R4939E	07/12/2000
SILICA		**E370.1**					Analyst: **CL**
Silica, Dissolved (as SiO2)	14.8	0.500		mg/L	1	R4869F	07/06/2000

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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TWDB Water Quality Field Data Sheet

New Well: yes / no
State Well Number: 68-23-616B
County: Comal
County Code:
Aquifer Code: 11
Aquifer Id: 218EBFZA

Send Results To: Owner / Lessee / DO NOT SEND
Owner's Name: E.A.A.
Lessee's Name:
Attention:
Mailing Address: 1615 N. St. Mary's St
San Antonio, TX 78215
Well Number: N.B. Transect

Type of Sample: LCRA / HACH
Sample Number: 3245-EA-2000
Date: 6/22/00
Sampler(s): BL

Add enough of the proper acid to each bottle that is preserved to drop the pH to 2.

1 (on ice)	2	3 (on ice)	4 (on ice)	5
500ml (filtered)	500ml (filtered)	250ml (filtered)	40 ml (not filtered)	1 gallon (filtered)
Anions / Total Alkalinity	Cations	Nitrate/Nitrite	Atrazine	Radioactivity
no preservative	1ml Nitric (HNO3)	0.5 ml Sulfuric (H2SO4)	no preservative	10 ml Nitric (HNO3)

Time In: 15:20
Time Out: 15:00

W. L. depth from LSD (ft.):
W.L. remark:

Pumping Since: 15:30
Sampling Point: Submersible

Well Use: Monitor
Latitude: 29° 42' 15" N
Lift: S
Longitude: 98° 07' 58" W
Power: E
Elevation: ft.

Sample Time: 16:37
Filter pressure: line

Daily Meter Calibration:

pH	7	7
	4 or 10	10.02
Conductivity	500	494
	1000	999
	2000	
	5000	

Field Alkalinity Titration:
7.58 Start pH 4.5 End pH
50 ml. Sample Size
13.2 ml. Acid added for Total
ml. Acid added for Phenol

Items below calculated from ml. acid added data:
Field Total Alkalinity: 264.0 mg/L
Field Phenol Alkalinity: 0.0 mg/L

Notes:
Sample interval -

W. Q. Stabilization Parameters Table — ***Final Readings:***

Time:	16:20	16:25	16:30	16:30
pH:	7.25	7.29	7.30	7.30
Temperature:	26.3	26.3	26.3	26.3
Conductivity:	1693	1696	1697	1697
Conductivity Temperature:	26.4	26.3	26.3	26.3

Items Below Calculated Later From Results:
Total Hardness: 505
Calculated TDS (mg/L): 1055

Data Entered By Sampler Into Database: yes / no

v:\GEMoni\Groundwater\WaterQuality\3245-EA.xls
revised 6/7/00

Back to Report Summary

MAP ID# 1 **Distance from Property: 0.187 mi. (987 ft.) W**

STATE ID: **68-23-623**
OWNER'S NAME: **EDWARDS AQUIFER AUTHORITY - NORTH WELL**
DATE DRILLED: **09/00/1989**
DEPTH DRILLED: **738'**
WATER USAGE: **UNUSED**
LONGITUDE: **-98**
LATITUDE: **30**
SOURCE: **TWDB**

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 2 **Distance from Property: 0.222 mi. (1,172 ft.) NNW**

ID #: **TX211635**
TRACK #: **211635**
DATE ENTERED: **2010-03-30**
OWNER NAME: **TOM GRANGER/LANDA PLAZA SHOPPING CENTER**
OWNER ADDRESS: **315 LANDA STREET**
NEW BRAUNFELS, TX 78130
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2010-03-18**
DRILLING DATE (COMPLETED): **2010-03-18**
DEPTH DRILLED: **5'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 2 **Distance from Property: 0.222 mi. (1,172 ft.) NNW**

ID #: **TX211637**
TRACK #: **211637**
DATE ENTERED: **2010-03-30**
OWNER NAME: **TOM GRANGER/LANDA PLAZA SHOPPING CENTER**
OWNER ADDRESS: **315 LANDA STREET**
NEW BRAUNFELS, TX 78130
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2010-03-18**
DRILLING DATE (COMPLETED): **2010-03-18**
DEPTH DRILLED: **5'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

MAP ID# 2 **Distance from Property: 0.222 mi. (1,172 ft.) NNW**

ID #: **TX211679**
TRACK #: **211679**
DATE ENTERED: **2010-03-31**
OWNER NAME: **TOM GRANGER/LANDA PLAZA SHOPPING CENTER**
OWNER ADDRESS: **315 LANDA STREET**
NEW BRAUNFELS, TX 78130
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2010-03-18**
DRILLING DATE (COMPLETED): **2010-03-18**
DEPTH DRILLED: **5'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

MAP ID# 2 **Distance from Property: 0.222 mi. (1,172 ft.) NNW**

ID #: **TX211680**
TRACK #: **211680**
DATE ENTERED: **2010-03-31**
OWNER NAME: **TOM GRANGER/LANDA PLAZA SHOPPING CENTER**
OWNER ADDRESS: **315 LANDA STREET**
NEW BRAUNFELS, TX 78130
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2010-03-18**
DRILLING DATE (COMPLETED): **2010-03-18**
DEPTH DRILLED: **5'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

MAP ID# 2 **Distance from Property: 0.222 mi. (1,172 ft.) NNW**

ID #: **TX211681**
TRACK #: **211681**
DATE ENTERED: **2010-03-31**
OWNER NAME: **TOM GRANGER/LANDA PLAZA SHOPPING CENTER**
OWNER ADDRESS: **315 LANDA STREET**
NEW BRAUNFELS, TX 78130
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2010-03-18**
DRILLING DATE (COMPLETED): **2010-03-18**
DEPTH DRILLED: **5'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

MAP ID# 2 **Distance from Property: 0.222 mi. (1,172 ft.) NNW**

ID #: **TX211691**
TRACK #: **211691**
DATE ENTERED: **2010-03-31**
OWNER NAME: **TOM GRANGER/LANDA PLAZA SHOPPING CENTER**
OWNER ADDRESS: **315 LANDA STREET**
NEW BRAUNFELS, TX 78130
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2010-03-18**
DRILLING DATE (COMPLETED): **2010-03-18**
DEPTH DRILLED: **30'**

WATER LEVEL:
STATIC LEVEL: **23'**
WATER LEVEL DATE: **2010-03-18**
TYPE OF WATER: **NON-POTABLE**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 2 **Distance from Property: 0.222 mi. (1,172 ft.) NNW**

ID #: **TX213560**
TRACK #: **213560**
DATE ENTERED: **2010-04-21**
OWNER NAME: **TOM GRANGER/LANDA PLAZA SHOPPING CENTER**
OWNER ADDRESS: **315 LANDA STREET**
NEW BRAUNFELS, TX 78130
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2010-03-18**
DRILLING DATE (COMPLETED): **2010-03-20**
DEPTH DRILLED: **30'**

WATER LEVEL:
STATIC LEVEL: **23'**
WATER LEVEL DATE: **2010-03-18**
TYPE OF WATER: **NON-POTABLE**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

MAP ID# 2 **Distance from Property: 0.222 mi. (1,172 ft.) NNW**

ID #: **TX213561**
TRACK #: **213561**
DATE ENTERED: **2010-04-21**
OWNER NAME: **TOM GRANGER/LANDA PLAZA SHOPPING CENTER**
OWNER ADDRESS: **315 LANDA STREET**
NEW BRAUNFELS, TX 78130
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2010-03-18**
DRILLING DATE (COMPLETED): **2010-03-20**
DEPTH DRILLED: **30'**

WATER LEVEL:
STATIC LEVEL: **23'**
WATER LEVEL DATE: **2010-03-18**
TYPE OF WATER: **NON-POTABLE**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 3 **Distance from Property: 0.241 mi. (1,272 ft.) ESE**

ID #: **TX452366**
TRACK #: **452366**
DATE ENTERED: **2017-06-14**
OWNER NAME: **CLASSEN CUSTOM HOMES**
OWNER ADDRESS: **P.O. BOX 312283**
NEW BRAUNFELS, TX 78131
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2017-06-09**
DRILLING DATE (COMPLETED): **2017-06-09**
DEPTH DRILLED: **40'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

MAP ID# 4 **Distance from Property: 0.302 mi. (1,595 ft.) W**

GEOSEARCH ID: **00419875**
REPORTING AGENCY: **US GEOLOGICAL SURVEY**
SITE IDENTIFICATION NUMBER: **294219098080401**
STATION NAME: **DX-68-23-617**
SITE TYPE: **WELL**
LATITUDE: **29.705502300**
LONGITUDE: **-98.134731000**
DISTRICT CODE: **48**
STATE CODE: **48**
COUNTY CODE: **091**
COUNTRY CODE: **US**
LAND NET LOCATION DESCRIPTION: **NOT REPORTED**
NAME OF LOCATION MAP: **NEW BRAUNFELS WES**
SCALE OF LOCATION MAP: **24000**
ALTITUDE OF GAGE/LAND SURFACE: **633.4**
METHOD OF ALTITUDE DETERMINED: **LEVEL OR OTHER SURVEYED METHOD**
ALTITUDE ACCURACY: **1**
ALTITUDE DATUM: **NGVD29**
HYDROLOGIC UNIT CODE: **12100202**
DRAINAGE BASIN CODE: **NOT REPORTED**
TOPOGRAPHIC SETTING CODE: **T**
DATE OF FIRST CONSTRUCTION: **10/01/1989**
DATE SITE ESTABLISHED OR INVENTORIED: **19891004**
DRAINAGE AREA: **NOT REPORTED**
CONTRIBUTING DRAINAGE AREA: **NOT REPORTED**
MEAN GREENWICH TIME OFFSET: **CST**
LOCAL STANDARD TIME FLAG: **Y**
DATA RELIABILITY: **DATA HAVE BEEN CHECKED BY THE REPORTING AGENCY**
LOCAL AQUIFER: **NOT REPORTED**
LOCAL AQUIFER TYPE CODE: **C**
NATIONAL AQUIFER CODE: **S500EDRTRN**
WELL DEPTH: **743 FEET**
HOLE DEPTH: **916.5 FEET**
SOURCE OF DEPTH DATA: **G**
PROJECT NUMBER: **8653-00370**
REAL-TIME DATA FLAG: **0**
PEAK-STREAMFLOW DATA BEGIN DATE: **--**
PEAK-STREAMFLOW DATA END DATE: **--**
PEAK-STREAMFLOW DATA COUNT: **0**
WATER-QUALITY DATA BEGIN DATE: **1989-10-10**
WATER-QUALITY DATA END DATE: **--**
WATER-QUALITY DATA COUNT: **25**
FIELD WATER-LEVEL MEASUREMENTS BEGIN DATE: **--**
FIELD WATER-LEVEL MEASUREMENTS END DATE: **--**

FIELD WATER-LEVEL MEASUREMENTS COUNT: **0**

SITE-VISIT DATA BEGIN DATE: **--**

SITE-VISIT DATA END DATE: **--**

SITE-VISIT DATA COUNT: **0**

Back to Report Summary

MAP ID# 4 **Distance from Property: 0.302 mi. (1,595 ft.) W**

GEOSEARCH ID: **00419876**
REPORTING AGENCY: **US GEOLOGICAL SURVEY**
SITE IDENTIFICATION NUMBER: **294219098080402**
STATION NAME: **DX-68-23-618**
SITE TYPE: **WELL**
LATITUDE: **29.705502300**
LONGITUDE: **-98.134731000**
DISTRICT CODE: **48**
STATE CODE: **48**
COUNTY CODE: **091**
COUNTRY CODE: **US**
LAND NET LOCATION DESCRIPTION: **NOT REPORTED**
NAME OF LOCATION MAP: **NEW BRAUNFELS WES**
SCALE OF LOCATION MAP: **24000**
ALTITUDE OF GAGE/LAND SURFACE: **633.6**
METHOD OF ALTITUDE DETERMINED: **LEVEL OR OTHER SURVEYED METHOD**
ALTITUDE ACCURACY: **1**
ALTITUDE DATUM: **NGVD29**
HYDROLOGIC UNIT CODE: **12100202**
DRAINAGE BASIN CODE: **NOT REPORTED**
TOPOGRAPHIC SETTING CODE: **T**
DATE OF FIRST CONSTRUCTION: **1990**
DATE SITE ESTABLISHED OR INVENTORIED: **19900119**
DRAINAGE AREA: **NOT REPORTED**
CONTRIBUTING DRAINAGE AREA: **NOT REPORTED**
MEAN GREENWICH TIME OFFSET: **CST**
LOCAL STANDARD TIME FLAG: **Y**
DATA RELIABILITY: **DATA HAVE BEEN CHECKED BY THE REPORTING AGENCY**
LOCAL AQUIFER: **NOT REPORTED**
LOCAL AQUIFER TYPE CODE: **C**
NATIONAL AQUIFER CODE: **S500EDRTRN**
WELL DEPTH: **594 FEET**
HOLE DEPTH: **660.1 FEET**
SOURCE OF DEPTH DATA: **G**
PROJECT NUMBER: **8653-00370**
REAL-TIME DATA FLAG: **0**
PEAK-STREAMFLOW DATA BEGIN DATE: **--**
PEAK-STREAMFLOW DATA END DATE: **--**
PEAK-STREAMFLOW DATA COUNT: **0**
WATER-QUALITY DATA BEGIN DATE: **1990-01-11**
WATER-QUALITY DATA END DATE: **--**
WATER-QUALITY DATA COUNT: **20**
FIELD WATER-LEVEL MEASUREMENTS BEGIN DATE: **--**
FIELD WATER-LEVEL MEASUREMENTS END DATE: **--**

FIELD WATER-LEVEL MEASUREMENTS COUNT: **0**

SITE-VISIT DATA BEGIN DATE: **--**

SITE-VISIT DATA END DATE: **--**

SITE-VISIT DATA COUNT: **0**

Back to Report Summary

MAP ID# 4 **Distance from Property: 0.289 mi. (1,526 ft.) W**

STATE ID: **68-23-617**
OWNER'S NAME: **EDWARDS AQUIFER AUTHORITY**
DATE DRILLED: **10/00/1989**
DEPTH DRILLED: **917'**
WATER USAGE: **UNUSED**
LONGITUDE: **-98**
LATITUDE: **30**
SOURCE: **TWDB**

FORM NO. 9-1904-A
Revised February 1987

DX-68-23-617

Coded by PLR
Checked by
Entered by GBD 10-18-89

File Code
Date

U.S. DEPT. OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
GROUND-WATER SITE SCHEDULE
General Site Data

AGENCY CODE (C4) USGS | SITE ID (C1) [redacted] | PROJECT NO. (C5) 461810027111

STATION NAME (C12) [redacted]

LATITUDE (C9) [redacted] | LONGITUDE (C10) [redacted] | LAT-LONG ACCURACY (C11) S (sec) F (5 sec) T (10 sec) M (min)

DISTRICT (C6) [redacted] | STATE (C7) [redacted] | COUNTY or TOWN (C8) Comal | County code 091

LAND NET (C13) ¼ ¼ ¼ S T R (section, township, range, meridian)

LOCATION MAP (C14) NEW BRAUNFELS WEST | MAP SCALE (C15) 1:24000

ALTITUDE (C15) 633.46 USGS Brass Plate | METHOD OF MEASUREMENT (C17) A (altimeter) L (level) M (map) | ACCURACY (C18) | HYDROLOGIC UNIT CODE (C20) 2118EDRDA

DRAINAGE BASIN CODE (C801) | TOPOGRAPHIC SETTING (C19): A alluvial fan, B playa, C stream channel, D depression, E dunes, F flat, G flood plain, H hilltop, K sinkhole, L lake or swamp, M mangrove swamp, O offshore, P pediment, S hillside, T terrace, U undulating, V valley flat, W upland draw

AGENCY USE (C803) A (active) I O (inactive, inventory only) | DATE INVENTORIED (C711) 10 (month) - 04 (day) - 1989 (year) | STATION TYPE (C802) (Place a "Y" in the appropriate box) Y (well)

DATA TYPE (C804) (Place an 'A' (active), an 'I' (inactive), or an 'O' (inventory) in the appropriate box)
WL cont. WL int. QW cont. QW int. State water use

INSTRUMENTS (C805) (Place a "Y" in the appropriate box):
digital recorder, graphic recorder, telemetry land line, telemetry radio, telemetry satellite, AHDAS, deflection meter, bubble gage, CR type recorder, weighing rain gage, tipping bucket rain gage

REMARKS (C806)

EDWARDS UNDERGROUND WATER DISTRICT
TD-(916.5) (Plugged Back to 743')
Driller: Texas Water Wells
Drilled: Oct 1989

GROUND-WATER SITE DATA

DATA RELIABILITY (C3): C L M (field checked, poor location, minimal data, unchecked)

SITE TYPE (C2): collector, drain, excavation, sink hole, connector well, multiple wells, outcrop, pond, tunnel, well, test hole

DATE OF CONSTRUCTION (C21): month – day – 19 year

USE OF SITE (C23): anode, standby, emer. supply, drain, geo-thermal, seismic, heat reservoir, mine, observation, oil or gas, recharge, repressurize, test, unused, withdrawal, waste, destroyed

SECONDARY USE OF SITE (C301) (SEE USE OF SITE)

TERTIARY USE OF SITE (C302) (SEE USE OF SITE)

USE OF WATER (C24): A B C D E F H I J K M N P Q R S T U Y Z
air cond., bottling, commercial, de-water, power, fire, domestic, irrigation, industrial (cooling), mining, medicinal, industrial, public supply, aquaculture, recreation, stock, institutional, unused, desalination, other

SECONDARY USE OF WATER (C25) (SEE USE OF WATER)

TERTIARY USE OF WATER (C26) (SEE USE OF WATER)

AQUIFER TYPE (C713): U N C M X
unconfined, single; unconfined, multiple; confined, single; confined, multiple; mixed

PRIMARY AQUIFER (C714)

HOLE DEPTH (C27): 916.5

WELL DEPTH (C28): 916.5

SOURCE OF DEPTH DATA (C29): A D G L M O R S Z
other gov't., driller, geologist, logs, memory, owner, other reported, reporting agency, other

WATER LEVEL (C30):

DATE WATER LEVEL MEASURED (C31) (Mandatory if C30, water level, has a value): month – day – 19 year

METHOD OF WATER-LEVEL MEASUREMENT (C34): A B C E G H L M N R S T V Z
airline, analog, calibrated airline, estimated, pressure gage, calibrated pressure gage, geophysical logs, manometer, non-rec. gage, reported, steel tape, electric tape, calibrated elec. tape, other

SITE STATUS FOR WATER LEVEL (C37): D E F G H I J N O P R S T V W X Z
dry, recently flowing, flowing, nearby flowing, nearby recently flowing, injector site, injector site monitor, measurement discon., obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other

SOURCE OF WATER-LEVEL DATA (C33): A D G L M O R S Z
other gov't., driller, geologist, logs, memory, owner, other reported, reporting agency, other

CONSTRUCTION DATA

RECORD TYPE (C754)

RECORD SEQUENCE NO. (C723)

DATE OF CONSTRUCTION (C60): 10 – 1 – 1989 (month – day – year)

NAME OF CONTRACTOR (C63): TEXWATERWELL

SOURCE OF DATA (C64): A D G L M O R S Z
other gov't., driller, geologist, logs, memory, owner, other reported, reporting agency, other

METHOD OF CONSTRUCTION (C65): A B C D H J P R T V W Z
air-rotary, bored or augered, cable tool, dug, hydraulic rotary, jetted, air percussion, reverse rotary, trenching, driven, drive wash, other

TYPE OF FINISH (C66): C F G H O P S T W X Z
porous concrete, gravel w/perf., gravel screen, horiz. gallery, open end, perf. or slotted, screen, sand point, welded, open hole, other

TYPE OF SEAL (C67): B C G N Z
bentonite, clay, cement grout, none, other

BOTTOM OF SEAL (C68):

METHOD OF DEVELOPMENT (C69): A B C J N P S Z
air-lift pump, bailed, compressed air, jetted, none, pumped, surged, other

HOURS OF DEVELOPMENT (C70):

SPECIAL TREATMENT (C71): C D E F H M Z
chemicals, dry ice, explosives, defoculent, hydrofracturing, mechanical, other

CONSTRUCTION HOLE DATA (3 sets shown)

RECORD TYPE (C758) HOLE RECORD SEQUENCE NO. (C724) [redacted] SEQUENCE NO. OF PARENT RECORD (C59) [redacted]

DEPTH TO TOP OF INTERVAL (C73) [redacted] DEPTH TO BOTTOM OF INTERVAL (C74) . DIAMETER OF INTERVAL (C75) .

RECORD SEQUENCE NO. (C724) [redacted]

DEPTH TO TOP OF INTERVAL (C73) [redacted] DEPTH TO BOTTOM OF INTERVAL (C74) . DIAMETER OF INTERVAL (C75) .

RECORD SEQUENCE NO. (C724) [redacted]

DEPTH TO TOP OF INTERVAL (C73) [redacted] DEPTH TO BOTTOM OF INTERVAL (C74) . DIAMETER OF INTERVAL (C75) .

CONSTRUCTION CASING DATA (3 sets shown)

RECORD TYPE (C758) CASING RECORD SEQUENCE NO. (C725) [redacted] SEQUENCE NO. OF PARENT RECORD (C59) [redacted]

DEPTH TO TOP OF CASING (C77) [redacted] DEPTH TO BOTTOM OF CASING (C78) 472.5 DIAMETER OF CASING (C79) 10.0

[1] CASING MATERIAL (C80) S CASING THICKNESS (C81) .

RECORD SEQUENCE NO. (C725) [redacted]

DEPTH TO TOP OF CASING (C77) [redacted] DEPTH TO BOTTOM OF CASING (C78) 1010.0 DIAMETER OF CASING (C79) 15.0

[1] CASING MATERIAL (C80) P CASING THICKNESS (C81) .

RECORD SEQUENCE NO. (C725) [redacted]

DEPTH TO TOP OF CASING (C77) [redacted] DEPTH TO BOTTOM OF CASING (C78) 702. DIAMETER OF CASING (C79) 12.0

[1] CASING MATERIAL (C80) P CASING THICKNESS (C81) .

FOOTNOTE:

[1] CASING MATERIAL CODES:

B	C	D	G	I	M	P	R	S	T	U	W	Z
brick,	concrete,	copper,	galv. iron,	wrought iron,	other metal,	PVC or plastic,	rock or stone,	steel,	tile,	coated steel,	wood,	other material

CONSTRUCTION OPENINGS DATA (3 sets shown)

RECORD TYPE (C760) [redacted] RECORD SEQUENCE NO. (C726) [redacted] SEQUENCE NO. OF PARENT RECORD (C59) [redacted]

DEPTH TO TOP OF INTERVAL (C83) [redacted] DEPTH TO BOTTOM OF INTERVAL (C84) Plugged 916.5 DIAMETER OF INTERVAL (C87) 7.9

2 MATERIAL TYPE (C86) S 3 TYPE OF OPENING (C85) [redacted] LENGTH OF OPENING (C89) 444. WIDTH OF OPENING (C88) .

RECORD SEQUENCE NO. (C726) [redacted]

DEPTH TO TOP OF INTERVAL (C83) [redacted] DEPTH TO BOTTOM OF INTERVAL (C84) 742. DIAMETER OF INTERVAL (C87) 2.0

2 MATERIAL TYPE (C86) P 3 TYPE OF OPENING (C85) [redacted] LENGTH OF OPENING (C89) 40. WIDTH OF OPENING (C88) .350

Gravel Pack 700' – 743

RECORD SEQUENCE NO. (C726) [redacted]

DEPTH TO TOP OF INTERVAL (C83) [redacted] DEPTH TO BOTTOM OF INTERVAL (C84) . DIAMETER OF INTERVAL (C87) .

2 MATERIAL TYPE (C86) 3 TYPE OF OPENING (C85) [redacted] LENGTH OF OPENING (C89) . WIDTH OF OPENING (C88) .

FOOTNOTES:

2 TYPE OF MATERIAL CODES FOR OPEN SECTIONS:

B	C	G	I	M	P	R	S	T	Z
brass or bronze,	concrete,	galv. iron,	wrought iron,	other metal,	PVC or plastic,	stainless steel,	steel,	tile,	other

3 TYPE OF OPENINGS CODES:

F	L	M	P	R	S	T	W	X	Z
fractured rock,	louvered shuttered,	mesh,	perf. or slotted,	wire-wound,	screen, (unk.)	sand point,	welded,	open hole,	other

CONSTRUCTION MEASURE POINT DATA

RECORD TYPE (C766) [redacted] RECORD SEQUENCE NO. (C728) [redacted] BEGINNING DATE (C321) . . 19 (month . day . year) ENDING DATE (C322) . . 19 (month . day . year)

M.P. HEIGHT (C323) . M.P. REMARKS (C324)

CONSTRUCTION OPENINGS DATA (3 set[illegible] own)

RECORD TYPE (C760) [redacted] RECORD SEQUENCE NO. (C728) [redacted] SEQUENCE NO. OF PARENT RECORD (C59) [redacted]

Plugged Back

DEPTH TO TOP OF INTERVAL (C83) [redacted] DEPTH TO BOTTOM OF INTERVAL (C84) 1610 DIAMETER OF INTERVAL (C87) 18

2 MATERIAL TYPE (C86) S 3 TYPE OF OPENING (C85) [redacted] LENGTH OF OPENING (C89) WIDTH OF OPENING (C88) .350

RECORD SEQUENCE NO. (C728) [redacted]

DEPTH TO TOP OF INTERVAL (C83) [redacted] DEPTH TO BOTTOM OF INTERVAL (C84) 590 DIAMETER OF INTERVAL (C87) 2

Grand 544-594

2 MATERIAL TYPE (C86) P 3 TYPE OF OPENING (C85) [redacted] LENGTH OF OPENING (C89) WIDTH OF OPENING (C88)

RECORD SEQUENCE NO. (C728) [redacted]

DEPTH TO TOP OF INTERVAL (C83) [redacted] DEPTH TO BOTTOM OF INTERVAL (C84) DIAMETER OF INTERVAL (C87)

2 MATERIAL TYPE (C86) 3 TYPE OF OPENING (C85) [redacted] LENGTH OF OPENING (C89) WIDTH OF OPENING (C88)

FOOTNOTES:

2 TYPE OF MATERIAL CODES FOR OPEN SECTIONS:

B	C	G	I	M	P	R	S	T	Z
brass or bronze,	concrete,	galv. iron,	wrought iron,	other metal,	PVC or plastic,	stainless steel,	steel,	tile,	other

3 TYPE OF OPENINGS CODES:

F	L	M	P	R	S	T	W	X	Z
fractured rock,	louvered shuttered,	mesh,	perf. or slotted,	wire-wound,	screen, (unk.)	sand point,	walled,	open hole,	other

CONSTRUCTION MEASURE POINT DATA

RECORD TYPE (C766) [redacted] RECORD SEQUENCE NO. (C728) [redacted] BEGINNING DATE (C321) [redacted] ENDING DATE (C322) [redacted]

M.P. HEIGHT (C323) M.P. REMARKS (C324)

69-23-617

Send original copy by certified mail to: Texas Water Co sion, P.O. Box 13087, Austin, Texas 78711 — Please use black ink.

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

State of Texas WELL REPORT

DX 68-23-617

Texas Water Well Drillers Board
P.O. Box 13087
Austin, Texas 78711

1) OWNER EDWARDS UNDERGROUND WATER DISTRICT (Name) ADDRESS P.O. BOX 15830 SAN ANTONIO (Street or RFD) (City) TX (State) 78212 (Zip)

2) LOCATION OF WELL: County COMAL . ____ miles in (NE, SW, etc.) direction from NEW BRAUNFELS (Town) TEXAS

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 AIR REV

6) WELL LOG:
Date Drilling: Started ____ 19__ Completed ____ 19__

DIAMETER OF HOLE		
Dia. (in.)	From (ft.)	To (ft.)
15	Surface	472.05
7 7/8	472.05	916.5

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	38	LEONA GRAVEL
38	208	PECAN GAP
208	345	AUSTIN CHALK
345	372	EAGLE FORD SHALE
372	416	BUDA LIME
416	462	DEL RIO CLAY
462	916.5	EDWARDS

RECEIVED
SEP 09 1991
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 Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casting Screen
10 3/4	N	STEEL	0 +2	472.5	
		SEE ATTACHED			

9) CEMENTING DATA [Rule 287.44(1)]
Cemented from SUR ft. to 472. ft. No. of Sacks Used 254 SKS.
____ ft. to ____ ft. No. of Sacks Used ____
Method used PRESSURE
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]

11) WATER LEVEL:
Static level 5.6 ft. below land surface Date 2/5/90
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: 15-20 gpm with VARIED ft. drawdown after ____ 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 BY OWNER

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 TEXAS WATER WELLS (Type or print) WELL DRILLER'S LICENSE NO. 02586W

ADDRESS P.O. BOX 1239 (Street or RFD) TOMBALL (City) TX. (State) 77377-1239 (Zip)

(Signed) ____ (Licensed Well Driller) (Signed) ____ (Registered Driller Trainee)

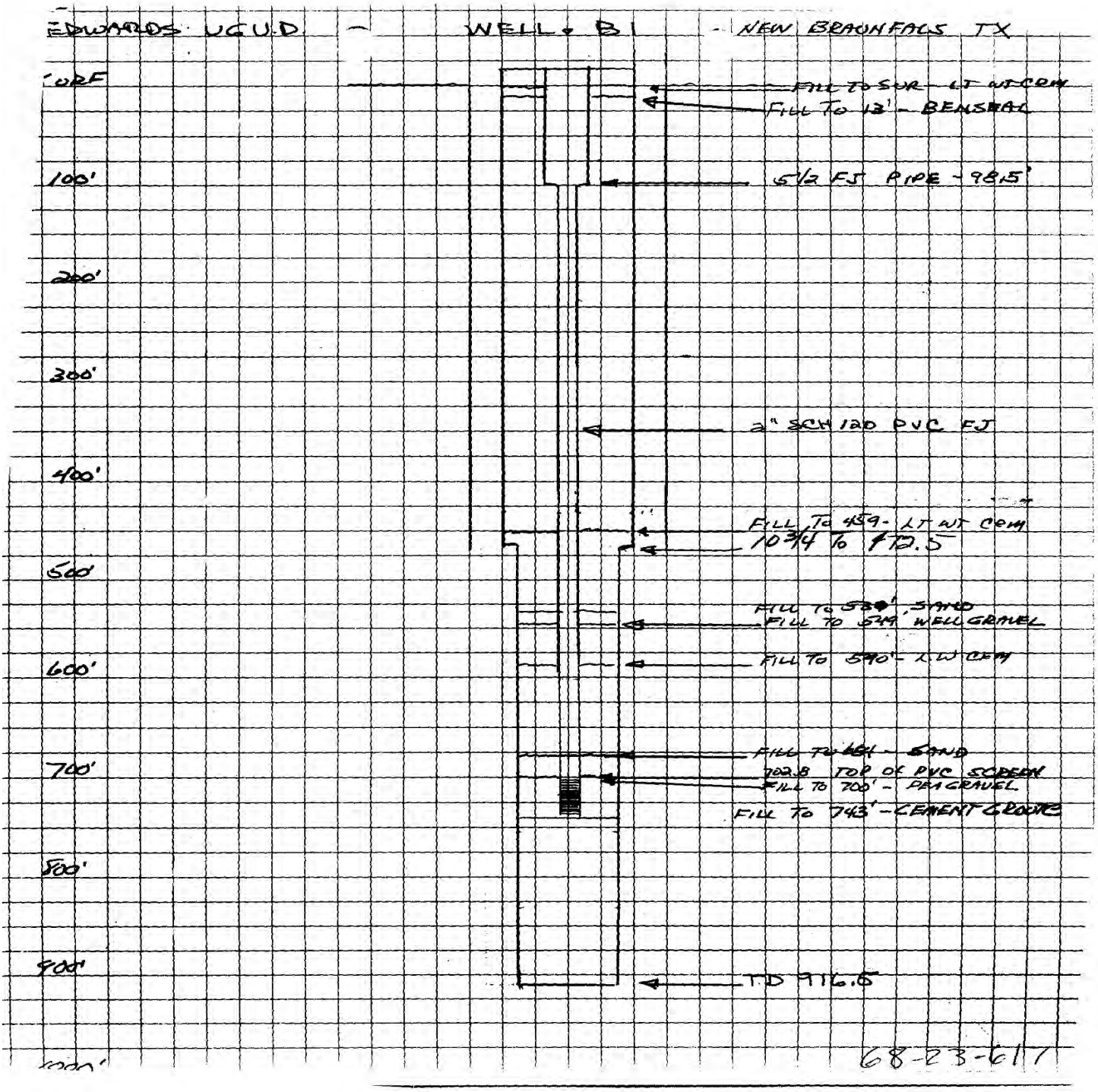
Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only: Well No. ____ Located on map ____

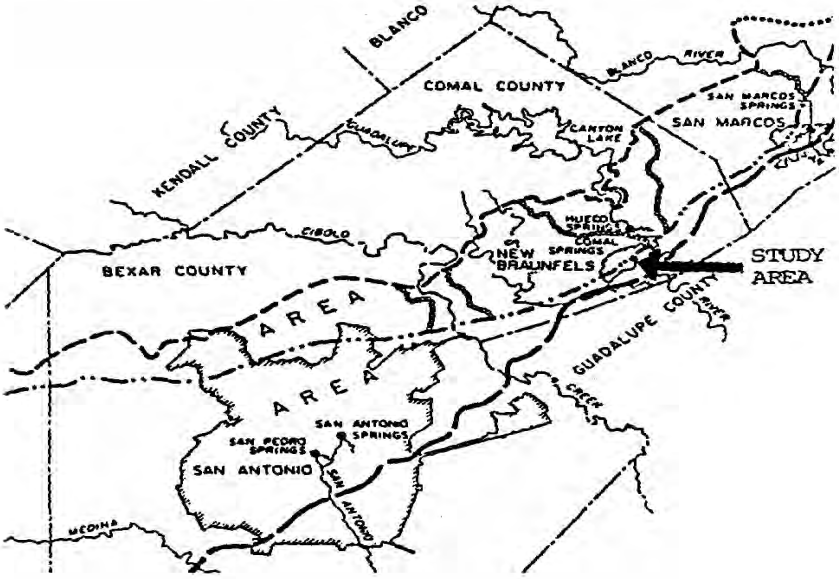
WWD-012 (Rev. 05-18-90)

TEXAS WATER COMMISSION COPY

68-23-617


EDWARDS UGUD - WELL # B1 - NEW BRAUNFELS TX
GRF
100'
200'
300'
400'
500'
600'
700'
800'
900'
FILL TO SUR - LT WT COM
FILL TO 12' - BENTNAC
5 1/2 FJ PIPE - 98.5'
2" SCH 120 PVC FJ
FILL TO 439 - LT WT COM
10 3/4 TO 440.5
FILL TO 530', SAND
FILL TO 524' WELL GRAVEL
FILL TO 590' - LW COM
FILL TO 681 - SAND
702.8 TOP OF PVC SCREEN
FILL TO 700' - PEA GRAVEL
FILL TO 743' - CEMENT GROUT
T.D 916.6
68-23-617

CONTRACT DOCUMENTS FOR THE NEW BRAUNFELS, TX. BAD-WATER LINE MONITORING WELLS DRILLING PROJECT



Edwards Underground Water District

April 1989

68-23-617


CENTER
VILLAGE
DR
ANHALT
DR
RHINE
TER
RHINE
LAHN RD
LORELEI LN
COLOGNE RD
EICHEN RD
81
BROADWAY
CHURCHILL
SKY-
VIEW
FAIRMONT
MEADOW
0.2
HOLLY ST
RIDGEWOOD AVE
BLUEBONNET
BRIDGE
E 7
B ST
A
C
ROTHE ST
GUENTHER
Creek
MILL
AVE
SANTA
CLARA
BUTCHER
WILLOW
SEVILLE
MADRID
GUADALUPE
Camp
N SYCAMORE
N WALNUT
HICKORY
CHESTNUT
S SYCAMORE
S WALNUT
S HICKORY
COLL
AVE
NEW BRAUNFELS DRILL SITES
A B AND C
SCALE 1:1320
FIGURE 1

Water Quality Field Data

SWN: 68-23-617
County: Comal
Aquifer(s): Edwards

Name: E.A.A.
Address: 1615 N. St. Mary's SA. TX 78215
owner's well #

Sample No. 3223-EA-1999
Date: 5/18/99
By: ZK/RC

Bottle 1	Bottle 2	Bottle 3	Bottle 4	Bottle 5	Bottle 6	Bottle 7	Total SUB-Samples
500 ml Anions	1 liter Cations	250 ml Nitrate	1 liter Radioactivity				
ICE	2 ml HNO_3 (Nitric)	0.5 ml H_2SO_4 (Sulfuric)	2 ml HNO_3 (Nitric)				All filtered unless otherwise stipulated

Time in 0930
Time out 1125 Sample time 1032
Weather cool/cloudy well use Obs/Mon.
Outside Temp
Sampling point Well Head

Starting pH 7.37 @25.9°C
11.0 ml. of 0.02N to
50 ml. of Sample
Ending pH 4.46 @ 26.4°C

		LSD	Remark	Flowing
Water Level		–		
Temperature (00010)			26.0	c
Specific Conductance (00094)			568	umhos/cm
pH (00400)	7.33			
Eh (00090)	-80.9	mv.		
Phenol ALK (82244)			– ,	mg/l
Total ALK (39086)			220	mg/l
Carbonate (00452)	–	meq/l	–	mg/l
Bicarbonate (00453)	4.40	meq/l	268.5	mg/l
Total Cations(+)	Bal.			
Total Anions (-)				
Total Hardness (00900)	270			
Dissolved Solids	330			

Time:	1002	1007	1012	1013		
pH:	7.25	7.30	7.33			
Temp:	25.8	26.0	26.0			
Eh:				-80.9		
Cond.	568	567	568			

	ml.	pH	ml.	pH	ml.	pH
	1	7.08	11	4.46		
	2	6.87				
	3	6.70				
	4	6.55				
	5	6.41				
	6	6.27				
	7	6.12				
	8	5.94				
	9	5.73				
	10	5.38				

other notes:
12 gpm
stopped at 9:30
Turbidity = 0.07 NTU

Environmental Laboratory Services
The Solution Lab

FINAL ANALYSIS REPORT

LAB ID: 9907661 SAMPLE DESCRIPTION: Groundwater
COMPANY: TX Water Dev. Board SAMPLE DATE: 05/18/99
ACCT NO: SAMPLE TIME: 1032
REQUISITION No.: R10944 DATE RECEIVED: 05/24/99
LOCATION ID: 68-23-617 REPORT DATE: 06/23/99

PARAMETER	RESULTS	UNITS	STORET #	PQL in WATER	DATE ANALYZED
Bromide	0.07	mg/L	71870	0.02	05/26/99
Chloride	17.3	mg/L	00941	1.5	05/26/99
Fluoride	1.26	mg/L	00950	0.01	05/26/99
Nit.,nitri/nitra-AFA	0.402	mg/L	00630	0.010	05/26/99
Nitrogen, Kjeldahl	<0.040	mg/L	00623	0.040	05/28/99
Nitrogen, ammonia	<0.040	mg/L	00608	0.040	05/25/99
Phosphorus, Total	0.073	mg/L	00665	0.040	05/28/99
Silica	13.90	mg/L	00955	0.50	05/27/99
Sulfate	53.60	mg/L	00946	1.50	05/26/99
Alkalinity, Total	214	mg/L	00410	1	05/25/99
Alkalinity, Phenol.	0	mg/L	00415	0	05/25/99
Boron, Dissolved	91.00	ug/L	01020	50.00	06/10/99
Cobalt, Diss. ICPMS	<1.0	ug/L	01035	1.0	06/04/99
Iron, Dissolved	57.00	ug/L	01046	50.00	06/10/99
Lithium, Diss. ICPMS	12.4	ug/L	01130	2.0	06/04/99
Molybdenum Dis ICPMS	9.5	ug/L	01060	1.0	06/04/99
Potassium, Dissolved	1.46	mg/L	00935	0.20	06/10/99
Strontium, Dissolved	16800.00	ug/L	01080	20.00	06/10/99
Vanadium, Diss ICPMS	12.0	ug/L	01085	1.0	06/04/99
Aluminum, Dis. ICPMS	<4.0	ug/L	01106	4.0	06/04/99
Arsenic, Diss. ICPMS	<2.0	ug/L	01000	2.0	06/04/99
Barium, Diss. ICPMS	111.5	ug/L	01005	1.0	06/04/99
Cadmium, Diss. ICPMS	<1.0	ug/L	01025	1.0	06/04/99
Calcium, Dissolved	55.60	mg/L	00915	0.20	06/10/99
Chromium, Diss ICPMS	<1.0	ug/L	01030	1.0	06/04/99
Copper, Diss. ICPMS	<2.0	ug/L	01040	2.0	06/04/99
Lead, Diss. ICPMS	<1.0	ug/L	01049	1.0	06/04/99
Magnesium, Dissolved	26.80	mg/L	00925	0.20	06/10/99
Manganese, Dis ICPMS	<1.0	ug/L	01056	1.0	06/04/99
Nickel, Diss. ICPMS	<1.0	ug/L	01065	1.0	06/04/99
Selenium, Dis. ICPMS	<4.0	ug/L	01145	4.0	06/04/99
Sodium, Dissolved	10.90	mg/L	00930	0.20	06/10/99
Antimony, Dis. ICPMS	<1.0	ug/L	01095	1.0	06/04/99
Beryllium, Dis ICPMS	<1.0	ug/L	01010	1.0	06/04/99
Thallium, Diss ICPMS	<1.0	ug/L	01057	1.0	06/04/99
Zinc, Diss. ICPMS	4.4	ug/L	01090	2.0	06/04/99

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3505 Montopolis Drive • Austin, Texas 78744 • (512) 356-6022 • (800) 776-5272 • (512) 356-6021 FAX

Back to Report Summary

Texas Water Development Board Groundwater Database (TWDB)

MAP ID# 4 **Distance from Property: 0.289 mi. (1,526 ft.) W**

STATE ID: **68-23-618**
OWNER'S NAME: **EDWARDS AQUIFER AUTHORITY**
DATE DRILLED: **00/00/1989**
DEPTH DRILLED: **660'**
WATER USAGE: **UNUSED**
LONGITUDE: **-98**
LATITUDE: **30**
SOURCE: **TWDB**

DX-68-23-618

FORM NO. 9-1904-A
Revised February 1987

Coded by PLR
Checked by
Entered by RGG 1-19-90

File Code
Date 1-19-90

U.S. DEPT. OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
GROUND-WATER SITE SCHEDULE
General Site Data

AGENCY CODE (C4): USGS
SITE ID (C1): 295219098280402
PROJECT NO. (C6): 461480271

STATION NAME (C12): DX-68-23-618

LATITUDE (C8): 295219
LONGITUDE (C10): 0982804
LAT-LONG ACCURACY (C11): S F T M (sec, 5 sec, 10 sec, min)

DISTRICT (C6): 08
STATE (C7): 48
COUNTY or TOWN (C8): Comal
County code: 091

LAND NET (C13): ¼ ¼ ¼ S section T township R range meld

LOCATION MAP (C14): NEW BRAUNFELS WEST
MAP SCALE (C15): 24000

ALTITUDE (C16): 1633.62 USGS Brass Plate
METHOD OF MEASUREMENT (C17): A L M (altimeter, level, map)
ACCURACY (C18):
HYDROLOGIC UNIT CODE (C20): 2118EDRDA

DRAINAGE BASIN CODE (C801):
TOPOGRAPHIC SETTING (C19): A B C D E F G H K L M O P S T U V W
(alluvial fan, playa, stream channel, depression, dunes, flat, flood plain, hill top, sink hole, lake or swamp, mangrove swamp, offshore, pediment, hillside, terrace, undulating, valley flat, upland draw)

AGENCY USE (C803): A I O (active, inactive, inventory only)
DATE INVENTORIED (C711): 01 (month) - 19 (day) - 1990 (year)
STATION TYPE (C802) (Place a 'Y' in the appropriate box): W (well)

DATA TYPE (C804) (Place an 'A' (active), an 'I' (inactive), or an 'O' (inventory) in the appropriate box):
WL cont., int. | WL cont., inc. | QW cont., inc. | QW cont., inc. | Site water use

INSTRUMENTS (C805) (Place a 'Y' in the appropriate box):
digital recorder, graphic recorder, telemetry land line, telemetry radio, telemetry satellite, AHDAB, deflection meter, bubble gage, CR type recorder, weighing rain gage, tipping bucket rain gage

REMARKS (C808):

EDWARDS UNDERGROUND WATER DISTRICT
TD- 660 ft. (Plugged Back To 594')
Driller: Texas Water Wells
Drilled: 1989-90

GROUND-WATER SITE DATA

DATA RELIABILITY (C3): C L M — field checked, location, min/mal date, unchecked

SITE TYPE (C2): C D F J M O R T W X — collector, drain, excavation, airhole, connector well, multiple wells, outcrop, bond, tunnel, well, test hole

DATE OF CONSTRUCTION (C21): 01 (month) - (day) - 1990 (year)

USE OF SITE (C23): A C D E G H M O P R S T U W X Z — anode, standby, emer. supply, drain, geothermal, seismic, heat reservoir, mine, observation, oil or gas, recharge, repressurize, test, unused, withdrawal, waste, destroyed

SECONDARY USE OF SITE (C301) (SEE USE OF SITE):

TERTIARY USE OF SITE (C302) (SEE USE OF SITE):

USE OF WATER (C24): A B C D E F H I J K M N P Q R S T U Y Z — air cond., bottling, commercial, de-water, power, fire, domestic, irrigation, industrial (cooling), mining, medicinal, industrial, public supply, aquaculture, recreation, stock, institutional, unused, desalination, other

SECONDARY USE OF WATER (C25) (SEE USE OF WATER):

TERTIARY USE OF WATER (C26) (SEE USE OF WATER):

AQUIFER TYPE (C713): U N C M X — unconfined, single; unconfined, multiple; confined, single; confined, multiple; mixed

PRIMARY AQUIFER (C714):

HOLE DEPTH (C27): 1660.1

WELL DEPTH (C28): 1660.1

SOURCE OF DEPTH DATA (C29): A D G L M O R S Z — other gov't., driller, geologist, logs, memory, owner, other reporting agency, other

472' of 10" Steel Csg.

WATER LEVEL (C30):

DATE WATER LEVEL MEASURED (C31) (Mandatory if C30, water level, has a value): (month) - (day) - 19 (year)

METHOD OF WATER-LEVEL MEASUREMENT (C34): A B C E G H L M N R S T V Z — airline, analog, calibrated airline, estimated, pressure gage, calibrated press. gage, geophysical logs, manometer, non-rec. gage, reported, steel tape, electric tape, calibrated elec. tape, other

SITE STATUS FOR WATER LEVEL (C37): D E F G H I J N O P R S T V W X Z — dry, recently flowing, flowing, nearby flowing, nearby recently flowing, injector site, injector site monitor, measurement discon., obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other

SOURCE OF WATER-LEVEL DATA (C33): A D G L M O R S Z — other gov't., driller, geologist, logs, memory, owner, other reported, reporting agency, other

CONSTRUCTION DATA

RECORD TYPE (C754): DONS

RECORD SEQUENCE NO. (C723):

DATE OF CONSTRUCTION (C60): 01 (month) - (day) - 1990 (year)

NAME OF CONTRACTOR (C63): TEXWATERWELL

SOURCE OF DATA (C64): A D G L M O R S Z — other gov't., driller, geologist, logs, memory, owner, other reported, reporting agency, other

METHOD OF CONSTRUCTION (C65): A B C D H J P R T V W Z — air-rotary, bored or augered, cable tool, dug, hydraulic rotary, jetted, air percussion, reverse rotary, trenching, driven, drive wash, other

TYPE OF FINISH (C66): C F G H O P S T W X Z — perous concrete, gravel w/perf., gravel screen, horiz. gallery, open end, perf. or slotted screen, sand point, welded, open hole, other

TYPE OF SEAL (C67): B C G N Z — bentonite, clay, cement grout, none, other

BOTTOM OF SEAL (C68):

METHOD OF DEVELOPMENT (C69): A B C J N P S Z — air-lift pump, bailed, compressed air, jetted, none, pumped, surged, other

HOURS OF DEVELOPMENT (C70):

SPECIAL TREATMENT (C71): C D E F H M Z — chemicals, dry ice, explosives, deflocculents, hydrofracturing, mechanical, other

DY-68-23-618

CONSTRUCTION HOLE DATA (3 shown)

RECORD TYPE (C756) HOLE RECORD SEQUENCE NO. (C724) SEQUENCE NO. OF PARENT RECORD (C69)

DEPTH TO TOP OF INTERVAL (C73) DEPTH TO BOTTOM OF INTERVAL (C74) DIAMETER OF INTERVAL (C75)

RECORD SEQUENCE NO. (C724)

DEPTH TO TOP OF INTERVAL (C73) DEPTH TO BOTTOM OF INTERVAL (C74) DIAMETER OF INTERVAL (C75)

RECORD SEQUENCE NO. (C724)

DEPTH TO TOP OF INTERVAL (C73) DEPTH TO BOTTOM OF INTERVAL (C74) DIAMETER OF INTERVAL (C75)

CONSTRUCTION CASING DATA (3 sets shown)

RECORD TYPE (C758) CSNG RECORD SEQUENCE NO. (C725) SEQUENCE NO. OF PARENT RECORD (C59)

DEPTH TO TOP OF CASING (C77) 0 DEPTH TO BOTTOM OF CASING (C78) 472.0 DIAMETER OF CASING (C79) 10.

[1] CASING MATERIAL (C80) S CASING THICKNESS (C81)

RECORD SEQUENCE NO. (C726)

DEPTH TO TOP OF CASING (C77) 0 DEPTH TO BOTTOM OF CASING (C78) 1100. DIAMETER OF CASING (C79) 5.0

[1] CASING MATERIAL (C80) P CASING THICKNESS (C81)

RECORD SEQUENCE NO. (C725)

DEPTH TO TOP OF CASING (C77) 700. DEPTH TO BOTTOM OF CASING (C78) 550. DIAMETER OF CASING (C79) 2.0

[1] CASING MATERIAL (C80) P CASING THICKNESS (C81)

FOOTNOTE:

[1] CASING MATERIAL CODES: B brick, C concrete, D copper, G galv. iron, I wrought iron, M other metal, P PVC or plastic, R rock or stone, S steel, T tile, U coated steel, W wood, Z other material

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Send original copy by certified mail to: Texas Water Com... ...sion, P.O. Box 13087, Austin, Texas 78711 — Please use black ink.

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

State of Texas WELL REPORT

DK 68-23-618

Texas Water Well Drillers Board
P.O. Box 13087
Austin, Texas 78711

1) OWNER EDWARDS UNDERGROUND WATER DIST. (Name) ADDRESS P.O. BOX 15830 SAN ANTONIO, TX. 78212 (Street or RFD) (City) (State) (Zip)

2) LOCATION OF WELL: County COMAL , ____ miles in (NE, SW, etc.) direction from NEW BRAUNFELS (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 AIR REV

6) WELL LOG:
Date Drilling: Started ____ 19__ Completed ____ 19__

DIAMETER OF HOLE		
Dia. (in.)	From (ft.)	To (ft.)
15	Surface	

From (ft.)	To (ft.)	Description and color of formation material
		LEONA GRAVEL
	213	PECAN GAP
213	344	AUSTIN CHALK
344	372	EAGLE FORD SHELL
372	420	BUDA LIMESTONE
420	464	DEL RIO CLAY
464	660	EDWARDS LIMESTONE

(Use reverse side if necessary) 660.5

RECEIVED SEP 09 1991 TEXAS WATER COMMISSION

7) BOREHOLE COMPLETION: ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☒ Gravel Packed ☐ Other ____
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 Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
10 3/4	N	STEEL	0+2	472	
		SEE ATTACHED			

9) CEMENTING DATA [Rule 287.44(1)]
Cemented from SURF ft. to 472 ft. No. of Sacks Used 254 SKS
ft. to ____ ft. No. of Sacks Used ____
Method used PRESSURE
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]

11) WATER LEVEL:
Static level 5.6 ft. below land surface Date 2/5/90
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: 15-20 gpm with VARIED ft. drawdown after ____ 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 BY OWNER

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 TEXAS WATER WELLS (Type or print) WELL DRILLER'S LICENSE NO. 02586W

ADDRESS P.O. BOX 1239 (Street or RFD) TOMBALL, (City) TEXAS (State) 77377 (Zip)

(Signed) ____ (Licensed Well Driller) (Signed) ____ (Registered Driller Trainee)

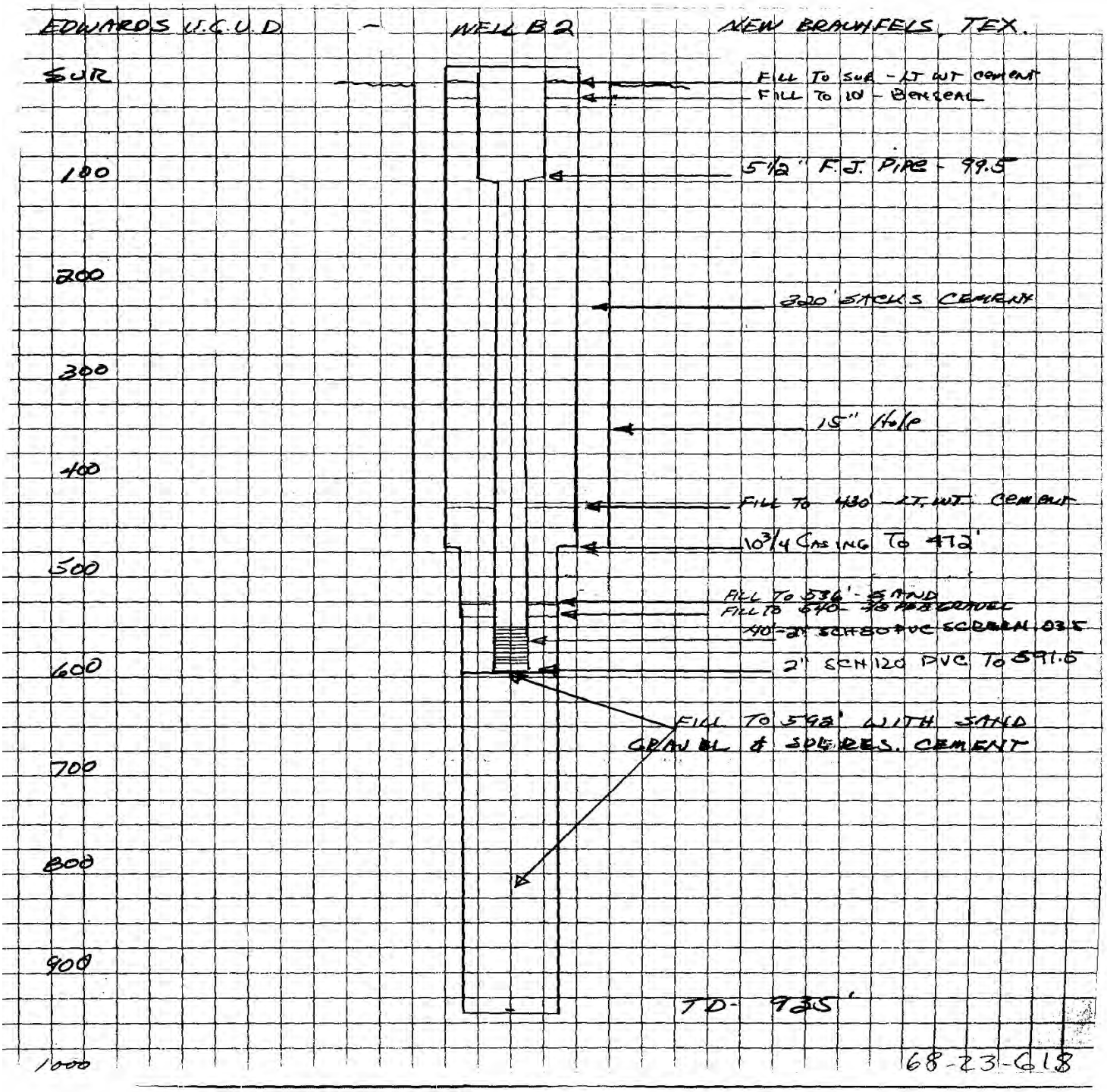
Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only: Well No. ____ Located on map ____

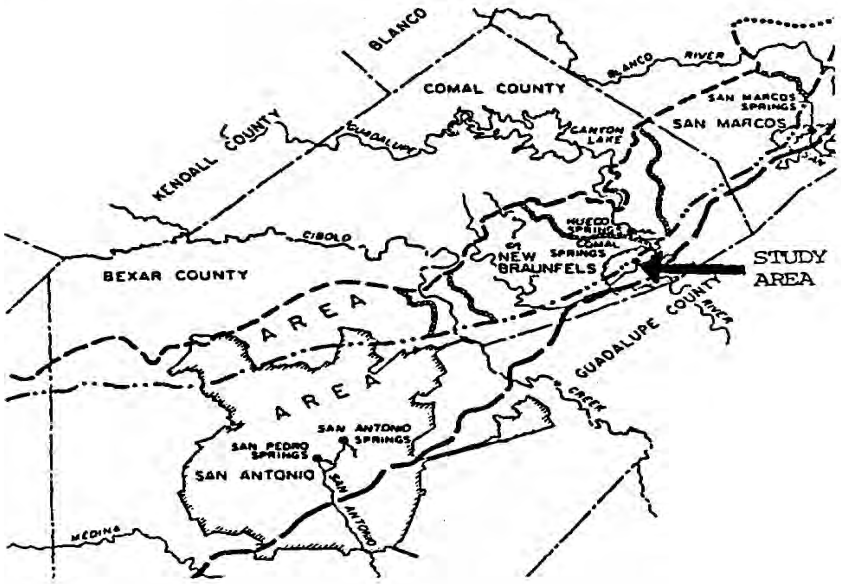
WWD-012 (Rev. 05-18-90)

TEXAS WATER COMMISSION COPY

68-23-618


EDWARDS U.C.U.D. – WELL B2 NEW BRAUNFELS, TEX.
SUR
100
200
300
400
500
600
700
800
900
1000
FILL TO SUR - LT WT CEMENT
FILL TO 10' - BENSEAL
5½" F.J. PIPE - 99.5'
300' SACKS CEMENT
15" HOLE
FILL TO 430' - LT. WT. CEMENT
10¾ CASING TO 472'
FILL TO 536' - SAND
FILL TO 540' - 30 MESH GRAVEL
40' - 2" SCH 80 PVC SCREEN .035
2" SCH 120 PVC TO 591.6
FILL TO 592' WITH SAND GRAVEL & 50% RES. CEMENT
TD- 935'
68-23-618

CONTRACT DOCUMENTS FOR THE NEW BRAUNFELS, TX. BAD—WATER LINE MONITORING WELLS DRILLING PROJECT



Edwards Underground Water District

April 1989

68-23-618

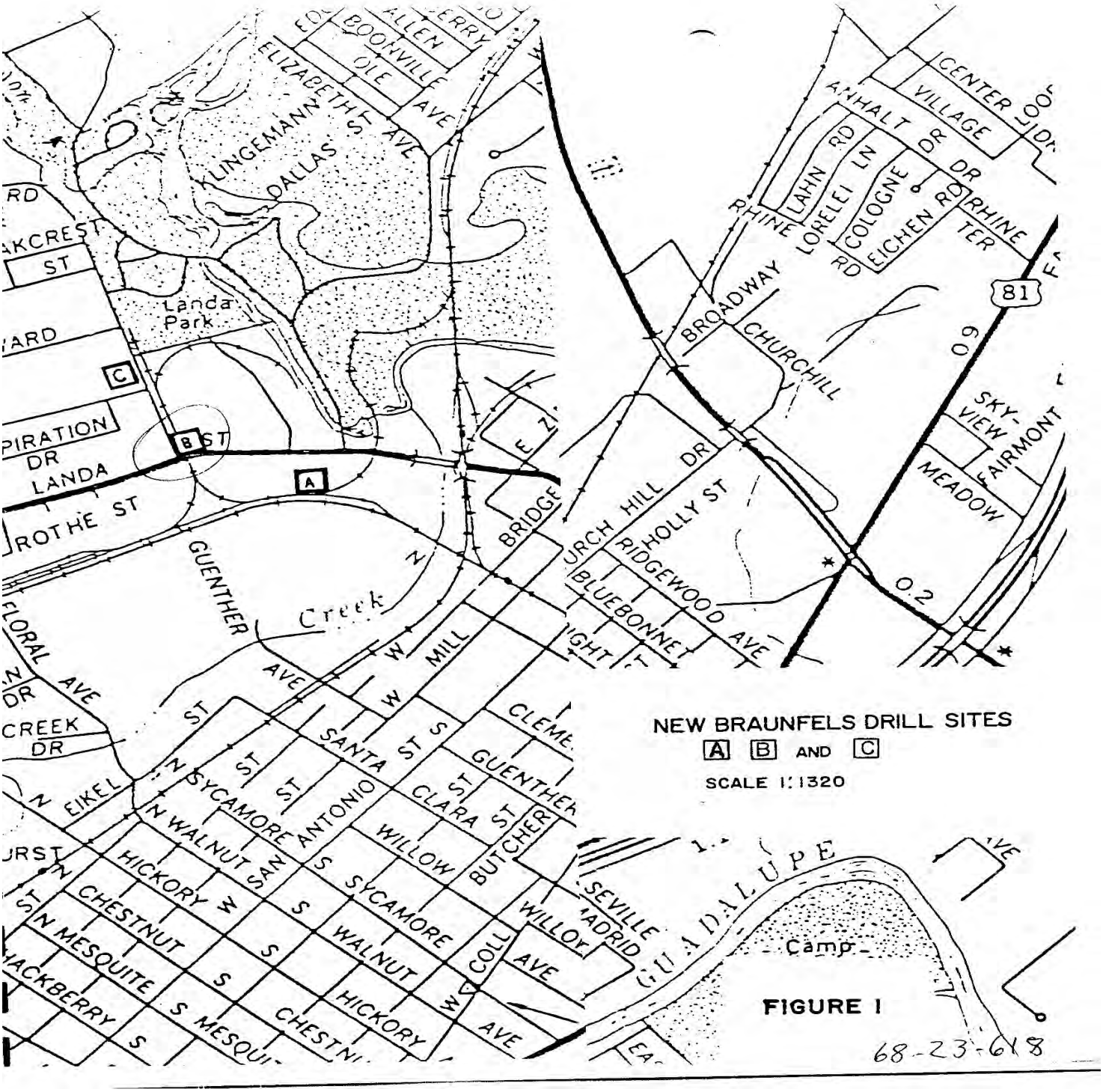


FIGURE 1

68-23-618

Water Quality Field Data

SWN: 68-23-618
County: Comal
Aquifer(s): Edwards

Name: E.A.A.
Address: 1615 N. St. Mary's S.A. TX 78215
owner's well #

Sample No. 3220-EA-1999
Date: 5/18/99
By: AK/RC

Bottle1	Bottle 2	Bottle 3	Bottle 4	Bottle 5	Bottle 6	Bottle 7	Total SUB-Samples
500 ml Anions	1 liter Cations	250 ml Nitrate	1 liter Radioactivity				
ICE	2 ml HNO_3 (Nitric)	0.5 ml H_2SO_4 (Sulfuric)	2 ml HNO_3 (Nitric)				All filtered unless otherwise stipulated

Time in 0930
Time out 1125 Sample time 1035
Weather cool; cloudy well use Obs/Mon.
Outside Temp
Sampling point Well Head

Starting pH 7.41 @ 25.4°C
10.1 ml. of 0.02N to
50 ml. of Sample
Ending pH 4.45 @ 24.0°C

		LSD	Remark	
Water Level		-	Flowing	
Temperature (00010)			25.4	c
Specific Conductance (00094)			634	umhos/cm
pH (00400)	7.32			
Eh (00090)	-239.0	mv.		
Phenol ALK (82244)		- .	mg/l	
Total ALK (39086)		202	mg/l	
Carbonate (00452)	-	-	meq/l	mg/l
Bicarbonate (00453)	4.04	246.5	meq/l	mg/l
Total Cations(+)	Bal.			
Total Anions (-)	265			
Total Hardness (00900)	350			
Dissolved Solids				

Time:	1000	1005	1010	1011			ml.	pH	ml.	pH	ml.	pH
pH:	7.17	7.33	7.32				1	7.08	10.1	4.45		
Temp:	25.2	25.3	25.4				2	6.86				
Eh:				-239.0			3	6.68				
Cond.	635	635	634				4	6.53				
							5	6.38				
							6	6.24				
							7	6.07				
							8	5.86				
							9	5.55				
							10	4.68				

other notes:
12 gpm
stabled pumping 9:30
Turbidity = 0.04 NTU

Environmental Laboratory Services
The Solution Lab

FINAL ANALYSIS REPORT

LAB ID: 9907660 SAMPLE DESCRIPTION: Groundwater
COMPANY: TX Water Dev. Board SAMPLE DATE: 05/18/99
ACCT NO: SAMPLE TIME: 1025
REQUISITION No.: R10944 DATE RECEIVED: 05/24/99
LOCATION ID: 68-23-618 REPORT DATE: 06/23/99

PARAMETER	RESULTS	UNITS	STORET #	PQL in WATER	DATE ANALYZED
Bromide	0.18	mg/L	71870	0.02	05/26/99
Chloride	44.6	mg/L	00941	1.5	05/26/99
Fluoride	2.57	mg/L	00950	0.01	05/26/99
Nit.,nitri/nitra-AFA	<0.020	mg/L	00630	0.010	05/26/99
Nitrogen, Kjeldahl	0.150	mg/L	00623	0.040	06/08/99
Nitrogen, ammonia	0.108	mg/L	00608	0.040	05/25/99
Phosphorus, Total	<0.040	mg/L	00665	0.040	05/28/99
Silica	15.10	mg/L	00955	0.50	05/27/99
Sulfate	62.80	mg/L	00946	1.50	05/26/99
Alkalinity, Total	180	mg/L	00410	1	05/25/99
Alkalinity, Phenol.	0	mg/L	00415	0	05/25/99
Boron, Dissolved	142.00	ug/L	01020	50.00	06/10/99
Cobalt, Diss. ICPMS	<1.0	ug/L	01035	1.0	06/04/99
Iron, Dissolved	60.00	ug/L	01046	50.00	06/10/99
Lithium, Diss. ICPMS	32.3	ug/L	01130	2.0	06/04/99
Molybdenum Dis ICPMS	<1.0	ug/L	01060	1.0	06/04/99
Potassium, Dissolved	2.60	mg/L	00935	0.20	06/10/99
Strontium, Dissolved	2450.00	ug/L	01080	20.00	06/10/99
Vanadium, Diss ICPMS	<1.0	ug/L	01085	1.0	06/04/99
Aluminum, Dis. ICPMS	<4.0	ug/L	01106	4.0	06/04/99
Arsenic, Diss. ICPMS	<2.0	ug/L	01000	2.0	06/04/99
Barium, Diss. ICPMS	30.1	ug/L	01005	1.0	06/04/99
Cadmium, Diss. ICPMS	<1.0	ug/L	01025	1.0	06/04/99
Calcium, Dissolved	50.50	mg/L	00915	0.20	06/10/99
Chromium, Diss ICPMS	<1.0	ug/L	01030	1.0	06/04/99
Copper, Diss. ICPMS	<2.0	ug/L	01040	2.0	06/04/99
Lead, Diss. ICPMS	<1.0	ug/L	01049	1.0	06/04/99
Magnesium, Dissolved	32.40	mg/L	00925	0.20	06/10/99
Manganese, Dis ICPMS	<1.0	ug/L	01056	1.0	06/04/99
Nickel, Diss. ICPMS	<1.0	ug/L	01065	1.0	06/04/99
Selenium, Dis. ICPMS	<4.0	ug/L	01145	4.0	06/04/99
Sodium, Dissolved	26.40	mg/L	00930	0.20	06/10/99
Antimony, Dis. ICPMS	<1.0	ug/L	01095	1.0	06/04/99
Beryllium, Dis ICPMS	<1.0	ug/L	01010	1.0	06/04/99
Thallium, Diss ICPMS	<1.0	ug/L	01057	1.0	06/04/99
Zinc, Diss. ICPMS	<2.0	ug/L	01090	2.0	06/04/99

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3505 Montopolis Drive • Austin, Texas 78744 • (512) 356-6022 • (800) 776-5272 • (512) 356-6021 FAX

LCRA Environmental Laboratory Services

Date: *11-Aug-00*

CLIENT: Texas Water Development Board
Client Sample ID: 68-23-618
Lab Order: 0006270 **COC ID:** 13826
Project: TWDB 9/99 thru 8/00
Collection Date: 06/22/2000 11:25:00 AM
Lab ID: 0006270-24
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	QC Batch	Date Analyzed
ICP METALS, DISSOLVED		**E200.7**					Analyst: **BL**
Calcium	48.5	0.200		mg/L	1	R5166	07/28/2000
Magnesium	31.6	0.200		mg/L	1	R5166	07/28/2000
Potassium	2.49	0.200		mg/L	1	R5166	07/28/2000
Sodium	25.3	0.700		mg/L	1	R5166	07/28/2000
ICP METALS, DISSOLVED		**E200.7**					Analyst: **BL**
Boron	103	50.0		µg/L	1	R5167	07/28/2000
Iron	98.4	50.0		µg/L	1	R5167	07/28/2000
Strontium	2680	20.0		µg/L	1	R5167	07/28/2000
ICPMS METALS, DISSOLVED		**E200.8**					Analyst: **PJM**
Aluminum	ND	4.00		µg/L	1	R5074	07/18/2000
Antimony	ND	1.00		µg/L	1	R5074	07/18/2000
Arsenic	ND	2.00		µg/L	1	R5074	07/18/2000
Barium	27.6	1.00		µg/L	1	R5074	07/18/2000
Beryllium	ND	1.00		µg/L	1	R5074	07/18/2000
Cadmium	ND	1.00		µg/L	1	R5074	07/18/2000
Chromium	2.84	1.00		µg/L	1	R5074	07/18/2000
Cobalt	ND	1.00		µg/L	1	R5074	07/18/2000
Copper	ND	2.00		µg/L	1	R5074	07/18/2000
Lead	ND	1.00		µg/L	1	R5074	07/18/2000
Lithium	31.5	2.00		µg/L	1	R5074	07/18/2000
Manganese	1.00	1.00		µg/L	1	R5074	07/18/2000
Molybdenum	ND	1.00		µg/L	1	R5074	07/18/2000
Nickel	ND	1.00		µg/L	1	R5074	07/18/2000
Selenium	ND	4.00		µg/L	1	R5074	07/18/2000
Thallium	ND	1.00		µg/L	1	R5074	07/18/2000
Vanadium	ND	1.00		µg/L	1	R5074	07/18/2000
Zinc	ND	4.00		µg/L	1	R5074	07/18/2000
ANIONS BY ION CHROMATOGRAPHY		**E300**					Analyst: **AMJ**
Bromide	0.180	0.0200		mg/L	1	R4937B	07/11/2000
Chloride	45.6	1.50		mg/L	1	R4937B	07/11/2000
Fluoride	2.55	0.0100		mg/L	1	R4937B	07/11/2000
Sulfate	65.6	1.50		mg/L	1	R4937B	07/11/2000
ALKALINITY		**M2320 B**					Analyst: **CL**
Alkalinity, Phenolphthalein	ND	0		mg/L CaCO3	1	R4888	07/07/2000
Alkalinity, Total (As CaCO3)	190	2.00		mg/L CaCO3	1	R4888	07/07/2000
CATION/ANION BALANCE		**CALCULATION**					Analyst: **AMJ**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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LCRA Environmental Laboratory Services

Date: *11-Aug-00*

CLIENT: Texas Water Development Board
Client Sample ID: 68-23-618
Lab Order: 0006270 **COC ID:** 13826
Project: TWDB 9/99 thru 8/00
Collection Date: 06/22/2000 11:25:00 AM
Lab ID: 0006270-24
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	QC Batch	Date Analyzed
Cation/Anion Balance	Balanced	0		Date	1	R5180	07/31/2000
NITRATE AND NITRITE		**E353.2**					Analyst: **CL**
Nitrogen, Nitrate & Nitrite	ND	0.0200		mg/L	1	R4939F	07/12/2000
SILICA		**E370.1**					Analyst: **CL**
Silica, Dissolved (as SiO2)	14.9	0.500		mg/L	1	R4869G	07/06/2000

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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State ID: 68-23-618

TWDB Water Quality Field Data Sheet

New Well: yes / no

State Well Number: 68-23-618

County: Comal

County Code:

Aquifer Code: 11

Aquifer Id: 218EBFZA

Send Results To: Owner / Lessee / DO NOT SEND

Owner's Name: E.A.A.

Lessee's Name:

Attention:

Mailing Address: 1615 N. St. Mary's St

San Antonio, TX 78215

Well Number: N.B. Transect

Type of Sample: LCRA / HACH

Sample Number: 3243-EA-2000

Date: 6/22/00

Sampler(s): BL

Add enough of the proper acid to each bottle that is preserved to drop the pH to 2.

1 (on ice)	2	3 (on ice)	4 (on ice)	5
500ml (filtered)	500ml (filtered)	250ml (filtered)	40 ml (not filtered)	1 gallon (filtered)
Anions / Total Alkalinity	Cations	Nitrate/Nitrite	Atrazine	Radioactivity
no preservative	1ml Nitric (HNO3)	0.5 ml Sulfuric (H2SO4)	**no preservative**	10 ml Nitric (HNO3)

Daily Meter Calibration:

pH	7	7
	4 or 10	10.02
Conductivity	500	494
	1000	999
	2000	
	5000	

Time In: 10:10

Time Out: 12:00

W. L. depth from LSD (ft.):

W.L. remark:

Pumping Since: 10:20

Sampling Point: Faucet @ Well

Well Use: Monitor

Latitude: 29° 42' 19" N

Lift: S

Longitude: 98° 08' 04" W

Power: E

Elevation: ft.

Field Alkalinity Titration:

8.1 Start pH 4.5 End pH

50 ml. Sample Size

10.4 ml. Acid added for Total

ml. Acid added for Phenol

Items below calculated from ml. acid added data:

Field Total Alkalinity: 208.0 mg/L

Field Phenol Alkalinity: 0.0 mg/L

Sample Time: 11:25

Filter pressure: line

Notes:

W. Q. Stabilization Parameters Table

Final Readings:

Time:	11:05	11:10	11:15	11:20
pH:	7.38	7.41	7.42	7.42
Temperature:	25.6	25.6	25.6	25.6
Conductivity:	636	633	632	633
Conductivity Temperature:	25.6	25.7	25.7	25.6

Items Below Calculated Later From Results:

Total Hardness: 355

Calculated TDS (mg/L): 355

Data Entered By Sampler Into Database: yes / no

v:\PEtton\Groundwater\WaterQuality\3243-EA.xls

rev/ed 6/7/00

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 5 **Distance from Property: 0.305 mi. (1,610 ft.) E**

ID #: **TX162886**
TRACK #: **162886**
DATE ENTERED: **2008-12-19**
OWNER NAME: **TXDOT**
OWNER ADDRESS: **125 EAST 11TH STREET**
AUSTIN, TX 78701
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2008-12-15**
DRILLING DATE (COMPLETED): **2008-12-15**
DEPTH DRILLED: **10'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 5 **Distance from Property: 0.305 mi. (1,610 ft.) E**

ID #: **TX162890**
TRACK #: **162890**
DATE ENTERED: **2008-12-19**
OWNER NAME: **TXDOT**
OWNER ADDRESS: **125 EAST 11TH STREET**
AUSTIN, TX 78701
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2008-12-15**
DRILLING DATE (COMPLETED): **2008-12-15**
DEPTH DRILLED: **10'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 5 **Distance from Property: 0.305 mi. (1,610 ft.) E**

ID #: **TX162891**
TRACK #: **162891**
DATE ENTERED: **2008-12-19**
OWNER NAME: **TXDOT**
OWNER ADDRESS: **125 EAST 11TH STREET**
AUSTIN, TX 78701
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2008-12-15**
DRILLING DATE (COMPLETED): **2008-12-15**
DEPTH DRILLED: **15'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

MAP ID# 5 **Distance from Property: 0.305 mi. (1,610 ft.) E**

ID #: **TX162892**
TRACK #: **162892**
DATE ENTERED: **2008-12-19**
OWNER NAME: **TXDOT**
OWNER ADDRESS: **125 EAST 11TH STREET**
AUSTIN, TX 78701
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2008-12-15**
DRILLING DATE (COMPLETED): **2008-12-15**
DEPTH DRILLED: **15'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 5 **Distance from Property: 0.305 mi. (1,610 ft.) E**

ID #: **TX162893**
TRACK #: **162893**
DATE ENTERED: **2008-12-19**
OWNER NAME: **TXDOT**
OWNER ADDRESS: **125 EAST 11TH STREET**
AUSTIN, TX 78701
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2008-12-15**
DRILLING DATE (COMPLETED): **2008-12-15**
DEPTH DRILLED: **10'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 5 **Distance from Property: 0.305 mi. (1,610 ft.) E**

ID #: **TX162894**
TRACK #: **162894**
DATE ENTERED: **2008-12-19**
OWNER NAME: **TXDOT**
OWNER ADDRESS: **125 EAST 11TH STREET**
AUSTIN, TX 78701
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2008-12-15**
DRILLING DATE (COMPLETED): **2008-12-15**
DEPTH DRILLED: **10'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

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Submitted Drillers Report Database (SDRD)

MAP ID# 5 **Distance from Property: 0.305 mi. (1,610 ft.) E**

ID #: **TX162895**
TRACK #: **162895**
DATE ENTERED: **2008-12-19**
OWNER NAME: **TXDOT**
OWNER ADDRESS: **125 EAST 11TH STREET**
AUSTIN, TX 78701
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2008-12-15**
DRILLING DATE (COMPLETED): **2008-12-15**
DEPTH DRILLED: **15'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

MAP ID# 5 **Distance from Property: 0.305 mi. (1,610 ft.) E**

ID #: **TX162896**
TRACK #: **162896**
DATE ENTERED: **2008-12-19**
OWNER NAME: **TXDOT**
OWNER ADDRESS: **125 EAST 11TH STREET**
AUSTIN, TX 78701
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2008-12-15**
DRILLING DATE (COMPLETED): **2008-12-15**
DEPTH DRILLED: **15'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

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Submitted Drillers Report Database (SDRD)

MAP ID# 5 **Distance from Property: 0.305 mi. (1,610 ft.) E**

ID #: **TX293852**
TRACK #: **293852**
DATE ENTERED: **2012-07-28**
OWNER NAME: **TETCO STORE #31**
OWNER ADDRESS: **1777 NE LOOP 410, STE. 1500**
SAN ANTONIO, TX 78217
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2012-07-18**
DRILLING DATE (COMPLETED): **2012-07-18**
DEPTH DRILLED: **15'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 5 **Distance from Property: 0.305 mi. (1,610 ft.) E**

ID #: **TX293853**
TRACK #: **293853**
DATE ENTERED: **2012-07-28**
OWNER NAME: **TETCO STORE #31**
OWNER ADDRESS: **1777 NE LOOP 410, STE. 1500**
SAN ANTONIO, TX 78217
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2012-07-18**
DRILLING DATE (COMPLETED): **2012-07-18**
DEPTH DRILLED: **40'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

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Submitted Drillers Report Database (SDRD)

MAP ID# 5 **Distance from Property: 0.305 mi. (1,610 ft.) E**

ID #: **TX293854**
TRACK #: **293854**
DATE ENTERED: **2012-07-28**
OWNER NAME: **TETCO STORE #31**
OWNER ADDRESS: **1777 NE LOOP 410, STE. 1500**
SAN ANTONIO, TX 78217
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2012-07-18**
DRILLING DATE (COMPLETED): **2012-07-18**
DEPTH DRILLED: **37'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 5 **Distance from Property: 0.305 mi. (1,610 ft.) E**

ID #: **TX293855**
TRACK #: **293855**
DATE ENTERED: **2012-07-28**
OWNER NAME: **TETCO STORE #31**
OWNER ADDRESS: **1777 NE LOOP 410, STE. 1500**
SAN ANTONIO, TX 78217
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2012-07-18**
DRILLING DATE (COMPLETED): **2012-07-18**
DEPTH DRILLED: **24'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 5 **Distance from Property: 0.305 mi. (1,610 ft.) E**

ID #: **TX293856**
TRACK #: **293856**
DATE ENTERED: **2012-07-28**
OWNER NAME: **TETCO STORE #31**
OWNER ADDRESS: **1777 NE LOOP 410, STE. 1500**
SAN ANTONIO, TX 78217
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2012-07-18**
DRILLING DATE (COMPLETED): **2012-07-18**
DEPTH DRILLED: **40'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 5 **Distance from Property: 0.305 mi. (1,610 ft.) E**

ID #: **TX293857**
TRACK #: **293857**
DATE ENTERED: **2012-07-28**
OWNER NAME: **TETCO STORE #31**
OWNER ADDRESS: **1777 NE LOOP 410, STE. 1500**
SAN ANTONIO, TX 78217
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2012-07-18**
DRILLING DATE (COMPLETED): **2012-07-18**
DEPTH DRILLED: **40'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 5 **Distance from Property: 0.305 mi. (1,610 ft.) E**

ID #: **TX293858**
TRACK #: **293858**
DATE ENTERED: **2012-07-28**
OWNER NAME: **TETCO STORE #31**
OWNER ADDRESS: **1777 NE LOOP 410, STE. 1500**
SAN ANTONIO, TX 78217
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2012-07-18**
DRILLING DATE (COMPLETED): **2012-07-18**
DEPTH DRILLED: **33'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

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Submitted Drillers Report Database (SDRD)

MAP ID# 5 **Distance from Property: 0.305 mi. (1,610 ft.) E**

ID #: **TX314448**
TRACK #: **314448**
DATE ENTERED: **2013-03-26**
OWNER NAME: **COMAL PROPERTIES**
OWNER ADDRESS: **387 WEST MILL STREET**
NEW BRAUNFELS, TX 78130
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2013-03-08**
DRILLING DATE (COMPLETED): **2013-03-08**
DEPTH DRILLED: **44'**

WATER LEVEL:
STATIC LEVEL: **39.5'**
WATER LEVEL DATE: **2013-03-08**
TYPE OF WATER: **NON-POTABLE**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 5 **Distance from Property: 0.305 mi. (1,610 ft.) E**

ID #: **TX314449**
TRACK #: **314449**
DATE ENTERED: **2013-03-26**
OWNER NAME: **COMAL PROPERTIES**
OWNER ADDRESS: **387 WEST MILL STREET**
NEW BRAUNFELS, TX 78130
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2013-03-08**
DRILLING DATE (COMPLETED): **2013-03-08**
DEPTH DRILLED: **32'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 5 **Distance from Property: 0.305 mi. (1,610 ft.) E**

ID #: **TX314450**
TRACK #: **314450**
DATE ENTERED: **2013-03-26**
OWNER NAME: **COMAL PROPERTIES**
OWNER ADDRESS: **387 WEST MILL STREET**
NEW BRAUNFELS, TX 78130
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2013-03-08**
DRILLING DATE (COMPLETED): **2013-03-08**
DEPTH DRILLED: **30'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

MAP ID# 5 **Distance from Property: 0.305 mi. (1,610 ft.) E**

ID #: **TX314451**
TRACK #: **314451**
DATE ENTERED: **2013-03-26**
OWNER NAME: **COMAL PROPERTIES**
OWNER ADDRESS: **387 WEST MILL STREET**
NEW BRAUNFELS, TX 78130
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2013-03-09**
DRILLING DATE (COMPLETED): **2013-03-09**
DEPTH DRILLED: **10'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 5 **Distance from Property: 0.322 mi. (1,700 ft.) E**

ID #: **TX376611**
TRACK #: **376611**
DATE ENTERED: **2014-10-02**
OWNER NAME: **MTG MANAGEMENT**
OWNER ADDRESS: **486 LANDA**
NEW BRAUNSFELS, TX NOT REPORTED
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2014-08-14**
DRILLING DATE (COMPLETED): **2014-08-14**
DEPTH DRILLED: **33'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:
COMPANY NAME: **ALPINE FIELD SERVICES, INC,**
COMPANY ADDRESS: **6830 BARNEY ROAD**
HOUSTON, TX 77092

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 5 **Distance from Property: 0.322 mi. (1,700 ft.) E**

ID #: **TX389686**
TRACK #: **389686**
DATE ENTERED: **2015-03-03**
OWNER NAME: **MTG MANAGEMENT**
OWNER ADDRESS: **486 LANDA**
NEW BRAUNSFELS, TX 78130
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2015-02-04**
DRILLING DATE (COMPLETED): **2015-02-04**
DEPTH DRILLED: **32.5'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:
COMPANY NAME: **ALPINE FIELD SERVICES INC.**
COMPANY ADDRESS: **6830 BARNEY RD.**
HOUSTON, TX 77092

Back to Report Summary

MAP ID# 5 **Distance from Property: 0.322 mi. (1,700 ft.) E**

ID #: **TX389687**
TRACK #: **389687**
DATE ENTERED: **2015-03-03**
OWNER NAME: **MTG MANAGEMENT**
OWNER ADDRESS: **486 LANDA**
NEW BRAUNSFELS, TX 78130
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2015-02-05**
DRILLING DATE (COMPLETED): **2015-02-05**
DEPTH DRILLED: **32.5'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:
COMPANY NAME: **ALPINE FIELD SERVICES INC.**
COMPANY ADDRESS: **6830 BARNEY RD.**
HOUSTON, TX 77092

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 5 **Distance from Property: 0.322 mi. (1,700 ft.) E**

ID #: **TX389688**
TRACK #: **389688**
DATE ENTERED: **2015-03-03**
OWNER NAME: **MTG MANAGEMENT**
OWNER ADDRESS: **486 LANDA**
NEW BRAUNSFELS, TX 78130
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2015-02-05**
DRILLING DATE (COMPLETED): **2015-02-05**
DEPTH DRILLED: **32.5'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:
COMPANY NAME: **ALPINE FIELD SERVICES INC.**
COMPANY ADDRESS: **6830 BARNEY RD.**
HOUSTON, TX 77092

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 5 **Distance from Property: 0.322 mi. (1,700 ft.) E**

ID #: **TX448766**
TRACK #: **448766**
DATE ENTERED: **2017-05-10**
OWNER NAME: **MTG MANAGEMENT**
OWNER ADDRESS: **486 LANDA**
NEW BRAUNSFELS,, TX 78130
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2017-02-24**
DRILLING DATE (COMPLETED): **2017-02-24**
DEPTH DRILLED: **34'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:
COMPANY NAME: **ALPINE FIELD SERVICES INC.**
COMPANY ADDRESS: **6830 BARNEY RD.**
HOUSTON, TX 77092

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 6 **Distance from Property: 0.315 mi. (1,663 ft.) SE**

ID #: **TX371358**
TRACK #: **371358**
DATE ENTERED: **2014-08-11**
OWNER NAME: **CITY OF NEW BRAUNFELS**
OWNER ADDRESS: **424 CASTELL**
NEW BRAUNFELS, TX 78130
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2014-07-25**
DRILLING DATE (COMPLETED): **2014-07-25**
DEPTH DRILLED: **30'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

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Submitted Drillers Report Database (SDRD)

MAP ID# 6 **Distance from Property: 0.315 mi. (1,663 ft.) SE**

ID #: **TX371361**
TRACK #: **371361**
DATE ENTERED: **2014-08-11**
OWNER NAME: **CITY OF NEW BRAUNFELS**
OWNER ADDRESS: **424 CASTELL**
NEW BRAUNFELS, TX 78130
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2014-07-25**
DRILLING DATE (COMPLETED): **2014-07-25**
DEPTH DRILLED: **30'**

WATER LEVEL:
STATIC LEVEL: **28'**
WATER LEVEL DATE: **2014-07-25**
TYPE OF WATER: **NON POTABLE**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 6 **Distance from Property: 0.315 mi. (1,663 ft.) SE**

ID #: **TX371369**
TRACK #: **371369**
DATE ENTERED: **2014-08-11**
OWNER NAME: **CITY OF NEW BRAUNFELS**
OWNER ADDRESS: **424 CASTELL**
NEW BRAUNFELS, TX 78130
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2014-07-25**
DRILLING DATE (COMPLETED): **2014-07-25**
DEPTH DRILLED: **30'**

WATER LEVEL:
STATIC LEVEL: **27'**
WATER LEVEL DATE: **2014-07-25**
TYPE OF WATER: **NON POTABLE**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

MAP ID# 7 **Distance from Property: 0.332 mi. (1,753 ft.) E**

GEOSEARCH ID: **00419868**
REPORTING AGENCY: **US GEOLOGICAL SURVEY**
SITE IDENTIFICATION NUMBER: **294213098072601**
STATION NAME: **DX-68-24-414**
SITE TYPE: **WELL**
LATITUDE: **29.703611100**
LONGITUDE: **-98.123888900**
DISTRICT CODE: **48**
STATE CODE: **48**
COUNTY CODE: **091**
COUNTRY CODE: **US**
LAND NET LOCATION DESCRIPTION: **NOT REPORTED**
NAME OF LOCATION MAP: **NEW BRAUNFELS EAS**
SCALE OF LOCATION MAP: **24000**
ALTITUDE OF GAGE/LAND SURFACE: **NOT REPORTED**
METHOD OF ALTITUDE DETERMINED: **NOT REPORTED**
ALTITUDE ACCURACY: **NOT REPORTED**
ALTITUDE DATUM: **NOT REPORTED**
HYDROLOGIC UNIT CODE: **12100202**
DRAINAGE BASIN CODE: **NOT REPORTED**
TOPOGRAPHIC SETTING CODE: **U**
DATE OF FIRST CONSTRUCTION: **NOT REPORTED**
DATE SITE ESTABLISHED OR INVENTORIED: **20060804**
DRAINAGE AREA: **NOT REPORTED**
CONTRIBUTING DRAINAGE AREA: **NOT REPORTED**
MEAN GREENWICH TIME OFFSET: **CST**
LOCAL STANDARD TIME FLAG: **Y**
DATA RELIABILITY: **DATA HAVE BEEN CHECKED BY THE REPORTING AGENCY**
LOCAL AQUIFER: **NOT REPORTED**
LOCAL AQUIFER TYPE CODE: **NOT REPORTED**
NATIONAL AQUIFER CODE: **S500EDRTRN**
WELL DEPTH: **839 FEET**
HOLE DEPTH: **NOT REPORTED**
SOURCE OF DEPTH DATA: **S**
PROJECT NUMBER: **8653-9YW01**
REAL-TIME DATA FLAG: **NOT REPORTED**
PEAK-STREAMFLOW DATA BEGIN DATE: **NOT REPORTED**
PEAK-STREAMFLOW DATA END DATE: **NOT REPORTED**
PEAK-STREAMFLOW DATA COUNT: **NOT REPORTED**
WATER-QUALITY DATA BEGIN DATE: **NOT REPORTED**
WATER-QUALITY DATA END DATE: **NOT REPORTED**
WATER-QUALITY DATA COUNT: **NOT REPORTED**
FIELD WATER-LEVEL MEASUREMENTS BEGIN DATE: **NOT REPORTED**
FIELD WATER-LEVEL MEASUREMENTS END DATE: **NOT REPORTED**

FIELD WATER-LEVEL MEASUREMENTS COUNT: **NOT REPORTED**
SITE-VISIT DATA BEGIN DATE: **NOT REPORTED**
SITE-VISIT DATA END DATE: **NOT REPORTED**
SITE-VISIT DATA COUNT: **NOT REPORTED**

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Submitted Drillers Report Database (SDRD)

MAP ID# 7 **Distance from Property: 0.317 mi. (1,674 ft.) E**

ID #: **TX191529**
TRACK #: **191529**
DATE ENTERED: **2009-08-28**
OWNER NAME: **LOWER COLORADO RIVER AUTHORITY**
OWNER ADDRESS: **3700 LAKE AUSTIN BLVD.**
AUSTIN, TX 78703
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2009-08-03**
DRILLING DATE (COMPLETED): **2009-08-03**
DEPTH DRILLED: **15'**

WATER LEVEL:
STATIC LEVEL: **13.5'**
WATER LEVEL DATE: **2009-08-03**
TYPE OF WATER: **NON-POTABLE**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

MAP ID# 7 **Distance from Property: 0.317 mi. (1,674 ft.) E**

ID #: **TX191545**
TRACK #: **191545**
DATE ENTERED: **2009-08-28**
OWNER NAME: **LOWER COLORADO RIVER AUTHORITY**
OWNER ADDRESS: **3700 LAKE AUSTIN BLVD.**
AUSTIN, TX 78703
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2009-08-03**
DRILLING DATE (COMPLETED): **2009-08-03**
DEPTH DRILLED: **10'**

WATER LEVEL:
STATIC LEVEL: **3'**
WATER LEVEL DATE: **2009-08-03**
TYPE OF WATER: **NON-POTABLE**

TYPE OF WORK:
NEW WELL
PROPOSED USE:
MONITOR
COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

MAP ID# 7 **Distance from Property: 0.317 mi. (1,674 ft.) E**

ID #: **TX191694**
TRACK #: **191694**
DATE ENTERED: **2009-08-31**
OWNER NAME: **LOWER COLORADO RIVER AUTHORITY**
OWNER ADDRESS: **3700 LAKE AUSTIN BLVD.**
AUSTIN, TX 78703
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2009-08-03**
DRILLING DATE (COMPLETED): **2009-08-03**
DEPTH DRILLED: **10'**

WATER LEVEL:
STATIC LEVEL: **8.5'**
WATER LEVEL DATE: **2009-08-03**
TYPE OF WATER: **NON-POTABLE**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

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Submitted Drillers Report Database (SDRD)

MAP ID# 7 **Distance from Property: 0.317 mi. (1,674 ft.) E**

ID #: **TX191703**
TRACK #: **191703**
DATE ENTERED: **2009-08-31**
OWNER NAME: **LOWER COLORADO RIVER AUTHORITY**
OWNER ADDRESS: **3700 LAKE AUSTIN BLVD.**
AUSTIN, TX 78703
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2009-08-03**
DRILLING DATE (COMPLETED): **2009-08-03**
DEPTH DRILLED: **15'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

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Submitted Drillers Report Database (SDRD)

MAP ID# 7 **Distance from Property: 0.317 mi. (1,674 ft.) E**

ID #: **TX191705**
TRACK #: **191705**
DATE ENTERED: **2009-08-31**
OWNER NAME: **LOWER COLORADO RIVER AUTHORITY**
OWNER ADDRESS: **3700 LAKE AUSTIN BLVD.**
AUSTIN, TX 78703
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2009-08-04**
DRILLING DATE (COMPLETED): **2009-08-04**
DEPTH DRILLED: **25'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

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Submitted Drillers Report Database (SDRD)

MAP ID# 7 **Distance from Property: 0.317 mi. (1,674 ft.) E**

ID #: **TX191727**
TRACK #: **191727**
DATE ENTERED: **2009-08-31**
OWNER NAME: **LOWER COLORADO RIVER AUTHORITY**
OWNER ADDRESS: **3700 LAKE AUSTIN BLVD.**
AUSTIN, TX 78703
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2009-07-27**
DRILLING DATE (COMPLETED): **2009-07-27**
DEPTH DRILLED: **30'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

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Submitted Drillers Report Database (SDRD)

MAP ID# 7 **Distance from Property: 0.317 mi. (1,674 ft.) E**

ID #: **TX191728**
TRACK #: **191728**
DATE ENTERED: **2009-08-31**
OWNER NAME: **LOWER COLORADO RIVER AUTHORITY**
OWNER ADDRESS: **3700 LAKE AUSTIN BLVD.**
AUSTIN, TX 78703
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2009-07-27**
DRILLING DATE (COMPLETED): **2009-07-27**
DEPTH DRILLED: **30'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 7 **Distance from Property: 0.317 mi. (1,674 ft.) E**

ID #: **TX191729**
TRACK #: **191729**
DATE ENTERED: **2009-08-31**
OWNER NAME: **LOWER COLORADO RIVER AUTHORITY**
OWNER ADDRESS: **3700 LAKE AUSTIN BLVD.**
AUSTIN, TX 78703
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2009-07-27**
DRILLING DATE (COMPLETED): **2009-07-27**
DEPTH DRILLED: **30'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 7 **Distance from Property: 0.317 mi. (1,674 ft.) E**

ID #: **TX191730**
TRACK #: **191730**
DATE ENTERED: **2009-08-31**
OWNER NAME: **LOWER COLORADO RIVER AUTHORITY**
OWNER ADDRESS: **3700 LAKE AUSTIN BLVD.**
AUSTIN, TX 78703
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2009-07-28**
DRILLING DATE (COMPLETED): **2009-07-28**
DEPTH DRILLED: **35'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

MAP ID# 7 **Distance from Property: 0.332 mi. (1,753 ft.) E**

STATE ID: **68-24-414**
OWNER'S NAME: **LCRA COMAL PLANT #2**
DATE DRILLED: **NOT REPORTED**
DEPTH DRILLED: **839'**
WATER USAGE: **NOT REPORTED**
LONGITUDE: **-98**
LATITUDE: **30**
SOURCE: **TWDB**

Texas Water Development Board
Well Schedule

State Well Number 6824414 Previous Well Number County Comal 91

River Basin 18 Guadalupe River Zone 1 Latitude 294213 Longitude 980726 Source of Coords 0

Owner's Well No. _____ Location _____

Owner
LCRA
Comal Plant #2

Driller

Address _____ Tenant/Oper. _____

Date Drilled Depth 839 Source of Depth A Altitude 635 Source of Alt. M

Well Type W User

WELL CONSTRUCTION Const-Method

Casing Material

Screen Material

Completion

Casing or Blank Pipe (C)
Well Screen or Slotted Zone (S) or Open Hole (O)
Cemented from_____to_____

LIFT DATA - Pump Mfr. - _____ Type - No. Stages _____

Bowls Diam - _____ in. Setting - _____ ft. Column Diam. - _____ in.

Motor Mfr. - _____ Fuel or Power - Horsepower -

YIELD Flow- _____GPM Pump- _____GPM Meas.,Rept.,Est.- _____ Date- _____

WATER USE Primary - Secondary - Tertiary -

OTHER DATA AVAILABLE Water Levels - N Quality - N Logs - Other Data -

WATER LEVELS

Recorded By D. R. Jones Date Record Collected or Updated - 08/15/2006

Reporting Agency 02

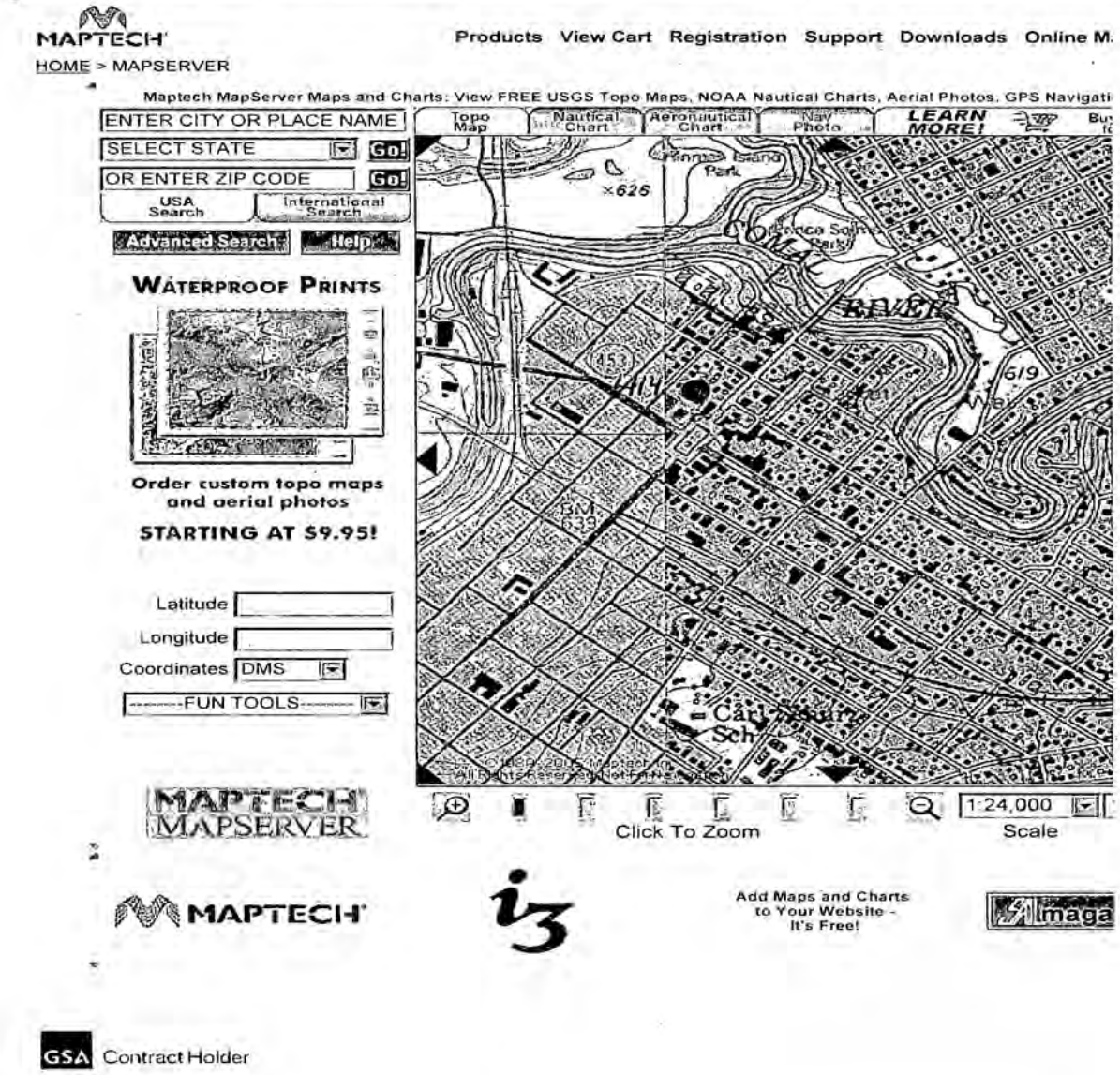
REMARKS -

Aquifer - 218EDRDA ID - 11
EDWARDS AND ASSOCIATED LIMESTONES

Well Number - 6824414

Tuesday, August 15, 2006

Maptech : Topo Maps Charts Navigation Software GPS and Online MapServer Page 1 of 2



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http://mapserver.maptech.com/homepage/index.cfm?lat=29.7021666667&lon=-98.121&sc... 8/15/2006

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MAP ID# 8 **Distance from Property: 0.326 mi. (1,721 ft.) WNW**

GEOSEARCH ID: **00419881**
REPORTING AGENCY: **US GEOLOGICAL SURVEY**
SITE IDENTIFICATION NUMBER: **294222098080601**
STATION NAME: **DX-68-23-622**
SITE TYPE: **WELL**
LATITUDE: **29.706111100**
LONGITUDE: **-98.135000000**
DISTRICT CODE: **48**
STATE CODE: **48**
COUNTY CODE: **091**
COUNTRY CODE: **US**
LAND NET LOCATION DESCRIPTION: **NOT REPORTED**
NAME OF LOCATION MAP: **NEW BRAUNFELS EAS**
SCALE OF LOCATION MAP: **24000**
ALTITUDE OF GAGE/LAND SURFACE: **NOT REPORTED**
METHOD OF ALTITUDE DETERMINED: **NOT REPORTED**
ALTITUDE ACCURACY: **NOT REPORTED**
ALTITUDE DATUM: **NOT REPORTED**
HYDROLOGIC UNIT CODE: **12100202**
DRAINAGE BASIN CODE: **NOT REPORTED**
TOPOGRAPHIC SETTING CODE: **U**
DATE OF FIRST CONSTRUCTION: **01/13/1956**
DATE SITE ESTABLISHED OR INVENTORIED: **20060804**
DRAINAGE AREA: **NOT REPORTED**
CONTRIBUTING DRAINAGE AREA: **NOT REPORTED**
MEAN GREENWICH TIME OFFSET: **CST**
LOCAL STANDARD TIME FLAG: **Y**
DATA RELIABILITY: **DATA HAVE BEEN CHECKED BY THE REPORTING AGENCY**
LOCAL AQUIFER: **NOT REPORTED**
LOCAL AQUIFER TYPE CODE: **NOT REPORTED**
NATIONAL AQUIFER CODE: **S500EDRTRN**
WELL DEPTH: **569 FEET**
HOLE DEPTH: **NOT REPORTED**
SOURCE OF DEPTH DATA: **S**
PROJECT NUMBER: **8653-9YW01**
REAL-TIME DATA FLAG: **NOT REPORTED**
PEAK-STREAMFLOW DATA BEGIN DATE: **NOT REPORTED**
PEAK-STREAMFLOW DATA END DATE: **NOT REPORTED**
PEAK-STREAMFLOW DATA COUNT: **NOT REPORTED**
WATER-QUALITY DATA BEGIN DATE: **NOT REPORTED**
WATER-QUALITY DATA END DATE: **NOT REPORTED**
WATER-QUALITY DATA COUNT: **NOT REPORTED**
FIELD WATER-LEVEL MEASUREMENTS BEGIN DATE: **NOT REPORTED**
FIELD WATER-LEVEL MEASUREMENTS END DATE: **NOT REPORTED**

FIELD WATER-LEVEL MEASUREMENTS COUNT: **NOT REPORTED**
SITE-VISIT DATA BEGIN DATE: **NOT REPORTED**
SITE-VISIT DATA END DATE: **NOT REPORTED**
SITE-VISIT DATA COUNT: **NOT REPORTED**

Back to Report Summary

MAP ID# 8 **Distance from Property: 0.326 mi. (1,721 ft.) WNW**

STATE ID: **68-23-622**
OWNER'S NAME: **LCRA COMAL PLANT #1**
DATE DRILLED: **NOT REPORTED**
DEPTH DRILLED: **569'**
WATER USAGE: **PLUGGED OR DESTROYED**
LONGITUDE: **-98**
LATITUDE: **30**
SOURCE: **TWDB**

Texas Water Development Board
Well Schedule

State Well Number 6823622 Previous Well Number County Comal 91

River Basin 18 Guadalupe River Zone 1 Latitude 294222 Longitude 980806 Source of Coords 0

Owner's Well No. _____ Location _____

Owner
LCRA
Comal Plant #1

Driller

Address _____ Tenant/Oper. _____

Date Drilled Depth 569 Source of Depth A Altitude 640 Source of Alt. M

Well Type W User

WELL CONSTRUCTION Const-Method

Casing Material

Screen Material

Completion

Casing or Blank Pipe (C)
Well Screen or Slotted Zone (S) or Open Hole (O)
Cemented from_____to_____

LIFT DATA - Pump Mfr. - _____ Type - NONE No. Stages _____

Bowls Diam - _____ in. Setting - _____ ft. Column Diam. - _____ in.

Motor Mfr. - _____ Fuel or Power - Horsepower -

YIELD Flow- _____ GPM Pump- _____ GPM Meas.,Rept.,Est.- _____ Date- _____

WATER USE Primary - UNUSED Secondary - Tertiary -

OTHER DATA AVAILABLE Water Levels - N Quality - N Logs - Other Data -

WATER LEVELS

Recorded By D. R. Jones Date Record Collected or Updated - 08/15/2006

Reporting Agency 02

REMARKS -
Well plugged Jan. 24,1989.

Aquifer - 218EDRDA ID - 11
EDWARDS AND ASSOCIATED LIMESTONES

Well Number - 6823622

Tuesday, August 15, 2006

Maptech : Topo Maps Charts Navigation Software GPS and Online MapServer Page 1 of 2



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TERMS AND CONDITIONS

68-23-622

http://mapserver.maptech.com/homepage/index.cfm?lat=29.7036666667&lon=-98.134333... 8/15/2006

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 9 **Distance from Property: 0.331 mi. (1,748 ft.) SSE**

ID #: **TX407651**
TRACK #: **407651**
DATE ENTERED: **2015-10-27**
OWNER NAME: **MCKENNA FOUNDATION**
OWNER ADDRESS: **801 WEST SAN ANTONIO ST**
NEW BRAUNFELS, TX 78130
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2015-01-23**
DRILLING DATE (COMPLETED): **2015-01-23**
DEPTH DRILLED: **45'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:
COMPANY NAME: **ENVIROTECH DRILLING SERVICES LLC**
COMPANY ADDRESS: **PO BOX 19064**
HOUSTON, TX 77224

Back to Report Summary

MAP ID# 10 **Distance from Property: 0.336 mi. (1,774 ft.) WNW**

GEOSEARCH ID: **00419882**
REPORTING AGENCY: **US GEOLOGICAL SURVEY**
SITE IDENTIFICATION NUMBER: **294223098080501**
STATION NAME: **DX-68-23-6 (NEW BRAUNFELS EUWD TEST)**
SITE TYPE: **WELL**
LATITUDE: **29.706613380**
LONGITUDE: **-98.135008800**
DISTRICT CODE: **48**
STATE CODE: **48**
COUNTY CODE: **091**
COUNTRY CODE: **US**
LAND NET LOCATION DESCRIPTION: **NOT REPORTED**
NAME OF LOCATION MAP: **NEW BRAUNFELS WES**
SCALE OF LOCATION MAP: **24000**
ALTITUDE OF GAGE/LAND SURFACE: **635**
METHOD OF ALTITUDE DETERMINED: **INTERPOLATED FROM TOPOGRAPHIC MAP**
ALTITUDE ACCURACY: **5**
ALTITUDE DATUM: **NGVD29**
HYDROLOGIC UNIT CODE: **12100202**
DRAINAGE BASIN CODE: **NOT REPORTED**
TOPOGRAPHIC SETTING CODE: **G**
DATE OF FIRST CONSTRUCTION: **12/20/1988**
DATE SITE ESTABLISHED OR INVENTORIED: **19881227**
DRAINAGE AREA: **NOT REPORTED**
CONTRIBUTING DRAINAGE AREA: **NOT REPORTED**
MEAN GREENWICH TIME OFFSET: **CST**
LOCAL STANDARD TIME FLAG: **Y**
DATA RELIABILITY: **DATA HAVE BEEN CHECKED BY THE REPORTING AGENCY**
LOCAL AQUIFER: **NOT REPORTED**
LOCAL AQUIFER TYPE CODE: **NOT REPORTED**
NATIONAL AQUIFER CODE: **NOT REPORTED**
WELL DEPTH: **NOT REPORTED**
HOLE DEPTH: **670 FEET**
SOURCE OF DEPTH DATA: **D**
PROJECT NUMBER: **4648-00272**
REAL-TIME DATA FLAG: **0**
PEAK-STREAMFLOW DATA BEGIN DATE: **--**
PEAK-STREAMFLOW DATA END DATE: **--**
PEAK-STREAMFLOW DATA COUNT: **0**
WATER-QUALITY DATA BEGIN DATE: **1988-12-20**
WATER-QUALITY DATA END DATE: **--**
WATER-QUALITY DATA COUNT: **3**
FIELD WATER-LEVEL MEASUREMENTS BEGIN DATE: **--**
FIELD WATER-LEVEL MEASUREMENTS END DATE: **--**

FIELD WATER-LEVEL MEASUREMENTS COUNT: **0**

SITE-VISIT DATA BEGIN DATE: **--**

SITE-VISIT DATA END DATE: **--**

SITE-VISIT DATA COUNT: **0**

Back to Report Summary

MAP ID# 11 **Distance from Property: 0.38 mi. (2,006 ft.) W**

ID NUMBER: **TX227400**
STATE ID : **68-23-6B**
OWNER NAME: **EDWARDS UNDERGROUND WATER DISTRICT**
DATE DRILLED: **08/30/1984**
DEPTH DRILLED: **68'**
STATIC LEVEL: **24'**
WATER USAGE: **DOMESTIC**
LONGITUDE: **-98.143238000**
LATITUDE: **29.697887000**

2 PAGE(S) OF DRILLERS' LOGS

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

Texas Water Well Drillers Board P. O. Box 13087 Austin, Texas 78711

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

28209

1) OWNER EDWARDS UNDERGROUND WATER DISTRICT Address 1900 Tower Life Bldg, San Antonio, Tex
(Name) (Street or RFD) (City) (State) (Zip)

2) LOCATION OF WELL: County Comal 1½ miles in S.W. direction from courthouse in New Braunfels, Texas Landa Park
(N.E., S.W., etc.) (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 8/30/84

DIAMETER OF HOLE Dia. (in.)	From (ft.)	To (ft.)
8	Surface	68'
	24'	

From (ft.)	To (ft.)	Description and color of formation material
24'	68'	Hard limestone

7) BOREHOLE COMPLETION: ☐ Open Hole ☒ Straight Wall ☐ Underreamed ☐ Gravel Packed ☐ Other _____
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
6	N	PVC Sched 40	0-68'		3/8

CEMENTING DATA
Cemented from _____ ft. to _____ ft.
Method used _____
Cemented by _____ (Company or Individual)

9) WATER LEVEL:
Static level 24 ft. below land surface Date 9/4/84
Artesian flow _____ gpm. Date _____

10) PACKERS:

Type	Depth
rubber	1'

11) TYPE PUMP: ☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder ☐ Other none set
Depth to pump bowls, cylinder, jet, etc., _____ ft.

12) WELL TESTS: ☐ Type Test: ☐ Pump ☒ Bailer ☐ Jetted ☐ Estimated
Yield: 15 gpm with 0 ft. drawdown after ½ hrs.

RECEIVED
SEP 17 1984
DEPT. OF
WATER RESOURCES

(Use reverse side if necessary)

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.

COMPANY NAME WILSON DRILLING COMPANY (Type or Print) Water Well Driller's License No. 2324

ADDRESS P.O. BOX 517 (Street or RFD) UVALDE (City) TEXAS (State) 78801 (Zip)

(Signed) Clifton E. Wilson (Licensed Water Well Driller) (Signed) _____ (Registered Driller Trainee)

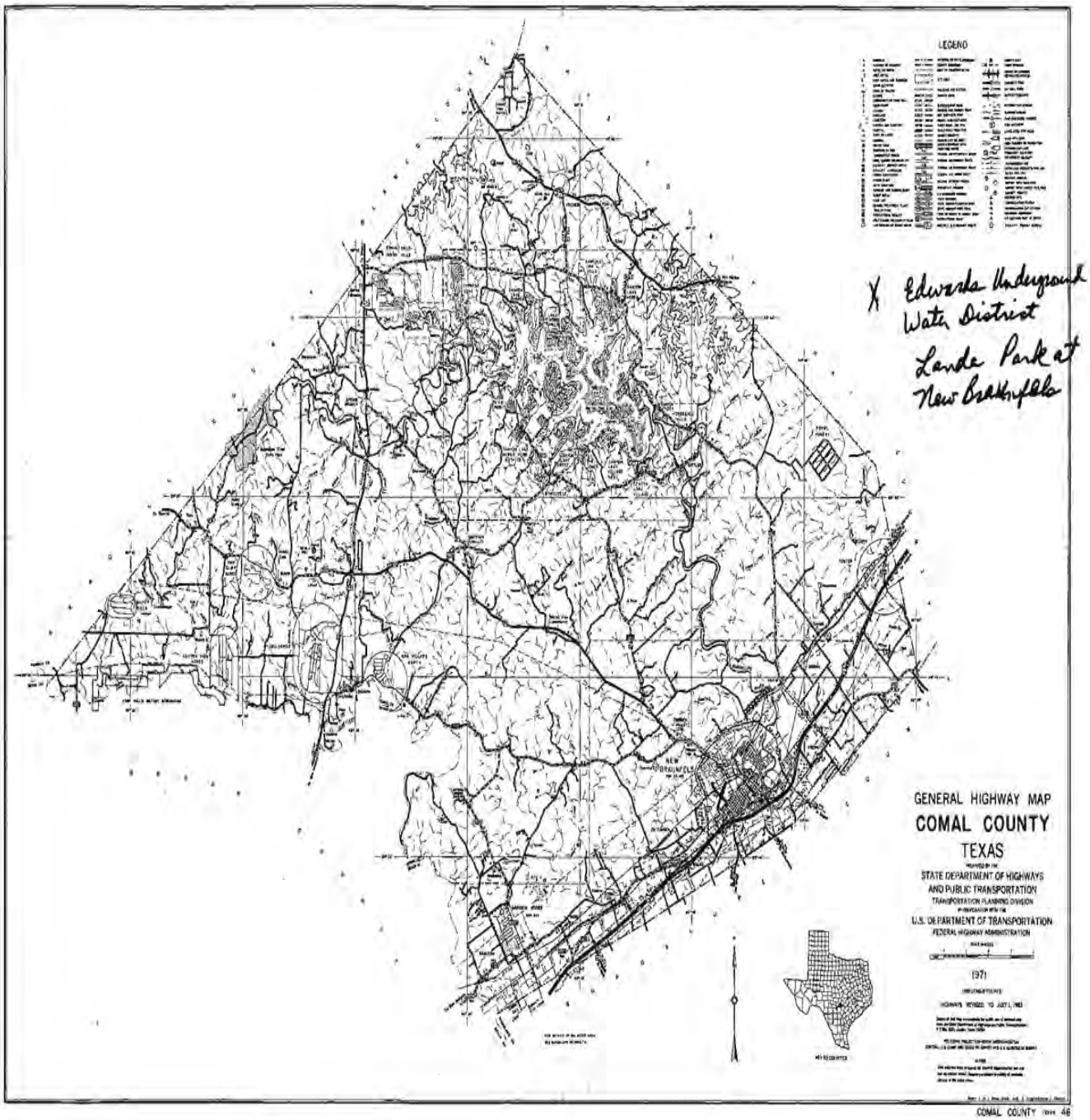
Please attach electric log, chemical analysis, and other pertinent information, if available.

For TDWR use only
Well No. 68-23-6B
Located on map Yes DLF

TDWR-0392 (Rev. 5-27-82)

DEPARTMENT OF WATER RESOURCES COPY

TCEQ (TCEQ)
Page # 1 out of 2
Water Well ID:
GeoSearch www.geo-search.com 888-396-0042
Order# 111976 Job# 248573
119 of 184



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Submitted Drillers Report Database (SDRD)

MAP ID# 12 **Distance from Property: 0.39 mi. (2,059 ft.) ESE**

ID #: **TX173110**
TRACK #: **173110**
DATE ENTERED: **2009-04-01**
OWNER NAME: **LOWER COLORADO RIVER AUTHORITY**
OWNER ADDRESS: **3700 LAKE AUSTIN BLVD**
AUSTIN, TX 78703
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2009-03-17**
DRILLING DATE (COMPLETED): **2009-03-17**
DEPTH DRILLED: **25'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 12 **Distance from Property: 0.39 mi. (2,059 ft.) ESE**

ID #: **TX173111**
TRACK #: **173111**
DATE ENTERED: **2009-04-01**
OWNER NAME: **LOWER COLORADO RIVER AUTHORITY**
OWNER ADDRESS: **3700 LAKE AUSTIN BLVD**
AUSTIN, TX 78703
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2009-03-17**
DRILLING DATE (COMPLETED): **2009-03-17**
DEPTH DRILLED: **25'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

MAP ID# 12 **Distance from Property: 0.39 mi. (2,059 ft.) ESE**

ID #: **TX173112**
TRACK #: **173112**
DATE ENTERED: **2009-04-01**
OWNER NAME: **LOWER COLORADO RIVER AUTHORITY**
OWNER ADDRESS: **3700 LAKE AUSTIN BLVD**
AUSTIN, TX 78703
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2009-03-18**
DRILLING DATE (COMPLETED): **2009-03-18**
DEPTH DRILLED: **17.5'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 12 **Distance from Property: 0.39 mi. (2,059 ft.) ESE**

ID #: **TX173113**
TRACK #: **173113**
DATE ENTERED: **2009-04-01**
OWNER NAME: **LOWER COLORADO RIVER AUTHORITY**
OWNER ADDRESS: **3700 LAKE AUSTIN BLVD**
AUSTIN, TX 78703
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2009-03-18**
DRILLING DATE (COMPLETED): **2009-03-18**
DEPTH DRILLED: **20'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

MAP ID# 12 **Distance from Property: 0.39 mi. (2,059 ft.) ESE**

ID #: **TX173114**
TRACK #: **173114**
DATE ENTERED: **2009-04-01**
OWNER NAME: **LOWER COLORADO RIVER AUTHORITY**
OWNER ADDRESS: **3700 LAKE AUSTIN BLVD**
AUSTIN, TX 78703
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2009-03-18**
DRILLING DATE (COMPLETED): **2009-03-18**
DEPTH DRILLED: **20'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

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MAP ID# 12 **Distance from Property: 0.39 mi. (2,059 ft.) ESE**

ID #: **TX173115**
TRACK #: **173115**
DATE ENTERED: **2009-04-01**
OWNER NAME: **LOWER COLORADO RIVER AUTHORITY**
OWNER ADDRESS: **3700 LAKE AUSTIN BLVD**
AUSTIN, TX 78703
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2009-03-18**
DRILLING DATE (COMPLETED): **2009-03-18**
DEPTH DRILLED: **24'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

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Submitted Drillers Report Database (SDRD)

MAP ID# 12 **Distance from Property: 0.39 mi. (2,059 ft.) ESE**

ID #: **TX173116**
TRACK #: **173116**
DATE ENTERED: **2009-04-01**
OWNER NAME: **LOWER COLORADO RIVER AUTHORITY**
OWNER ADDRESS: **3700 LAKE AUSTIN BLVD**
AUSTIN, TX 78703
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2009-03-18**
DRILLING DATE (COMPLETED): **2009-03-18**
DEPTH DRILLED: **21.5'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

MAP ID# 12 **Distance from Property: 0.39 mi. (2,059 ft.) ESE**

ID #: **TX173118**
TRACK #: **173118**
DATE ENTERED: **2009-04-01**
OWNER NAME: **LOWER COLORADO RIVER AUTHORITY**
OWNER ADDRESS: **3700 LAKE AUSTIN BLVD**
AUSTIN, TX 78703
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2009-03-18**
DRILLING DATE (COMPLETED): **2009-03-18**
DEPTH DRILLED: **25'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 12 **Distance from Property: 0.39 mi. (2,059 ft.) ESE**

ID #: **TX173120**
TRACK #: **173120**
DATE ENTERED: **2009-04-01**
OWNER NAME: **LOWER COLORADO RIVER AUTHORITY**
OWNER ADDRESS: **3700 LAKE AUSTIN BLVD**
AUSTIN, TX 78703
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2009-03-19**
DRILLING DATE (COMPLETED): **2009-03-19**
DEPTH DRILLED: **25'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 12 **Distance from Property: 0.39 mi. (2,059 ft.) ESE**

ID #: **TX173122**
TRACK #: **173122**
DATE ENTERED: **2009-04-01**
OWNER NAME: **LOWER COLORADO RIVER AUTHORITY**
OWNER ADDRESS: **3700 LAKE AUSTIN BLVD**
AUSTIN, TX 78703
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2009-03-19**
DRILLING DATE (COMPLETED): **2009-03-19**
DEPTH DRILLED: **30'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 12 **Distance from Property: 0.39 mi. (2,059 ft.) ESE**

ID #: **TX173124**
TRACK #: **173124**
DATE ENTERED: **2009-04-01**
OWNER NAME: **LOWER COLORADO RIVER AUTHORITY**
OWNER ADDRESS: **3700 LAKE AUSTIN BLVD**
AUSTIN, TX 78703
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2009-03-19**
DRILLING DATE (COMPLETED): **2009-03-19**
DEPTH DRILLED: **30'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

MAP ID# 12 **Distance from Property: 0.39 mi. (2,059 ft.) ESE**

ID #: **TX173126**
TRACK #: **173126**
DATE ENTERED: **2009-04-01**
OWNER NAME: **LOWER COLORADO RIVER AUTHORITY**
OWNER ADDRESS: **3700 LAKE AUSTIN BLVD**
AUSTIN, TX 78703
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2009-03-20**
DRILLING DATE (COMPLETED): **2009-03-20**
DEPTH DRILLED: **10'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 12 **Distance from Property: 0.39 mi. (2,059 ft.) ESE**

ID #: **TX173127**
TRACK #: **173127**
DATE ENTERED: **2009-04-01**
OWNER NAME: **LOWER COLORADO RIVER AUTHORITY**
OWNER ADDRESS: **3700 LAKE AUSTIN BLVD**
AUSTIN, TX 78703
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2009-03-20**
DRILLING DATE (COMPLETED): **2009-03-20**
DEPTH DRILLED: **15'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 12 **Distance from Property: 0.39 mi. (2,059 ft.) ESE**

ID #: **TX173132**
TRACK #: **173132**
DATE ENTERED: **2009-04-01**
OWNER NAME: **LOWER COLORADO RIVER AUTHORITY**
OWNER ADDRESS: **3700 LAKE AUSTIN BLVD**
AUSTIN, TX 78703
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2009-03-20**
DRILLING DATE (COMPLETED): **2009-03-20**
DEPTH DRILLED: **30'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

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Submitted Drillers Report Database (SDRD)

MAP ID# 12 **Distance from Property: 0.39 mi. (2,059 ft.) ESE**

ID #: **TX173133**
TRACK #: **173133**
DATE ENTERED: **2009-04-01**
OWNER NAME: **LOWER COLORADO RIVER AUTHORITY**
OWNER ADDRESS: **3700 LAKE AUSTIN BLVD**
AUSTIN, TX 78703
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2009-03-20**
DRILLING DATE (COMPLETED): **2009-03-20**
DEPTH DRILLED: **30'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

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Submitted Drillers Report Database (SDRD)

MAP ID# 12 **Distance from Property: 0.39 mi. (2,059 ft.) ESE**

ID #: **TX173134**
TRACK #: **173134**
DATE ENTERED: **2009-04-01**
OWNER NAME: **LOWER COLORADO RIVER AUTHORITY**
OWNER ADDRESS: **3700 LAKE AUSTIN BLVD**
AUSTIN, TX 78703
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2009-03-20**
DRILLING DATE (COMPLETED): **2009-03-20**
DEPTH DRILLED: **25'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

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Submitted Drillers Report Database (SDRD)

MAP ID# 12 **Distance from Property: 0.39 mi. (2,059 ft.) ESE**

ID #: **TX173135**
TRACK #: **173135**
DATE ENTERED: **2009-04-01**
OWNER NAME: **LOWER COLORADO RIVER AUTHORITY**
OWNER ADDRESS: **3700 LAKE AUSTIN BLVD**
AUSTIN, TX 78703
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2009-03-20**
DRILLING DATE (COMPLETED): **2009-03-20**
DEPTH DRILLED: **35'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

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Submitted Drillers Report Database (SDRD)

MAP ID# 12 **Distance from Property: 0.39 mi. (2,059 ft.) ESE**

ID #: **TX173165**
TRACK #: **173165**
DATE ENTERED: **2009-04-01**
OWNER NAME: **LOWER COLORADO RIVER AUTHORITY**
OWNER ADDRESS: **3700 LAKE AUSTIN BLVD**
AUSTIN, TX 78703
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2009-03-17**
DRILLING DATE (COMPLETED): **2009-03-17**
DEPTH DRILLED: **30'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

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Submitted Drillers Report Database (SDRD)

MAP ID# 12 **Distance from Property: 0.39 mi. (2,059 ft.) ESE**

ID #: **TX173166**
TRACK #: **173166**
DATE ENTERED: **2009-04-01**
OWNER NAME: **LOWER COLORADO RIVER AUTHORITY**
OWNER ADDRESS: **3700 LAKE AUSTIN BLVD**
AUSTIN, TX 78703
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2009-03-17**
DRILLING DATE (COMPLETED): **2009-03-17**
DEPTH DRILLED: **30'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

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Submitted Drillers Report Database (SDRD)

MAP ID# 12 **Distance from Property: 0.39 mi. (2,059 ft.) ESE**

ID #: **TX173171**
TRACK #: **173171**
DATE ENTERED: **2009-04-01**
OWNER NAME: **LOWER COLORADO RIVER AUTHORITY**
OWNER ADDRESS: **3700 LAKE AUSTIN BLVD**
AUSTIN, TX 78703
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2009-03-17**
DRILLING DATE (COMPLETED): **2009-03-17**
DEPTH DRILLED: **10'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

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MAP ID# 13 **Distance from Property: 0.413 mi. (2,181 ft.) NW**

ID #: **TX319328**
TRACK #: **319328**
DATE ENTERED: **2013-05-21**
OWNER NAME: **MAJOR BRAND GASOLINE**
OWNER ADDRESS: **P.O. BOX 6110**
AUSTIN, TX 78746
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2013-05-07**
DRILLING DATE (COMPLETED): **2013-05-07**
DEPTH DRILLED: **30'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 13 **Distance from Property: 0.413 mi. (2,181 ft.) NW**

ID #: **TX319342**
TRACK #: **319342**
DATE ENTERED: **2013-05-21**
OWNER NAME: **MAJOR BRAND GASOLINE**
OWNER ADDRESS: **P.O. BOX 6110**
AUSTIN, TX 78746
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2013-05-07**
DRILLING DATE (COMPLETED): **2013-05-07**
DEPTH DRILLED: **25'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

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Submitted Drillers Report Database (SDRD)

MAP ID# 13 **Distance from Property: 0.413 mi. (2,181 ft.) NW**

ID #: **TX319345**
TRACK #: **319345**
DATE ENTERED: **2013-05-21**
OWNER NAME: **MAJOR BRAND GASOLINE**
OWNER ADDRESS: **P.O. BOX 6110**
AUSTIN, TX 78746
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2013-05-07**
DRILLING DATE (COMPLETED): **2013-05-07**
DEPTH DRILLED: **25'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

Back to Report Summary

Submitted Drillers Report Database (SDRD)

MAP ID# 13 **Distance from Property: 0.413 mi. (2,181 ft.) NW**

ID #: **TX319346**
TRACK #: **319346**
DATE ENTERED: **2013-05-21**
OWNER NAME: **MAJOR BRAND GASOLINE**
OWNER ADDRESS: **P.O. BOX 6110**
AUSTIN, TX 78746
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2013-05-07**
DRILLING DATE (COMPLETED): **2013-05-07**
DEPTH DRILLED: **25'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

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Submitted Drillers Report Database (SDRD)

MAP ID# 13 **Distance from Property: 0.413 mi. (2,181 ft.) NW**

ID #: **TX343646**
TRACK #: **343646**
DATE ENTERED: **2013-10-17**
OWNER NAME: **MAJOR BRAND GASOLINE**
OWNER ADDRESS: **P.O. BOX 6110**
AUSTIN, TX 78746
COUNTY: **GUADALUPE**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2013-10-15**
DRILLING DATE (COMPLETED): **2013-10-15**
DEPTH DRILLED: **32.5'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:
COMPANY NAME: **ALPINE FIELD SERVICES, INC.**
COMPANY ADDRESS: **6830 BARNEY RD**
HOUSTON, TX 77092

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Submitted Drillers Report Database (SDRD)

MAP ID# 13 **Distance from Property: 0.413 mi. (2,181 ft.) NW**

ID #: **TX343647**
TRACK #: **343647**
DATE ENTERED: **2013-10-17**
OWNER NAME: **MAJOR BRAND GASOLINE**
OWNER ADDRESS: **P.O. BOX 6110**
AUSTIN, TX 78746
COUNTY: **GUADALUPE**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2013-10-15**
DRILLING DATE (COMPLETED): **2013-10-15**
DEPTH DRILLED: **32.5'**

WATER LEVEL:
STATIC LEVEL: **NOT REPORTED'**
WATER LEVEL DATE: **NOT REPORTED**
TYPE OF WATER: **NOT REPORTED**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:
COMPANY NAME: **ALPINE FIELD SERVICES, INC.**
COMPANY ADDRESS: **6830 BARNEY RD**
HOUSTON, TX 77092

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Submitted Drillers Report Database (SDRD)

MAP ID# 14 **Distance from Property: 0.416 mi. (2,196 ft.) NW**

ID #: **TX346743**
TRACK #: **346743**
DATE ENTERED: **2013-11-15**
OWNER NAME: **HEB GROCERY COMPANY, LP**
OWNER ADDRESS: **646 SOUTH MAIN AVE.**
SAN ANTONIO, TX 78204
COUNTY: **COMAL**
LATITUDE: **30** LONGITUDE: **-98**

WELL LOG:
DRILLING DATE (STARTED): **2013-11-07**
DRILLING DATE (COMPLETED): **2013-11-07**
DEPTH DRILLED: **27.5'**

WATER LEVEL:
STATIC LEVEL: **24'**
WATER LEVEL DATE: **2013-11-07**
TYPE OF WATER: **NON-POTABLE**

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:
COMPANY NAME: **VORTEX DRILLING, INC.**
COMPANY ADDRESS: **4412 BLUEMEL ROAD**
SAN ANTONIO, TX 78240

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MAP ID# 15 **Distance from Property: 0.435 mi. (2,297 ft.) WNW**

GEOSEARCH ID: **00419886**
REPORTING AGENCY: **US GEOLOGICAL SURVEY**
SITE IDENTIFICATION NUMBER: **294226098081001**
STATION NAME: **DX-68-23-619A**
SITE TYPE: **WELL**
LATITUDE: **29.707446680**
LONGITUDE: **-98.136397800**
DISTRICT CODE: **48**
STATE CODE: **48**
COUNTY CODE: **091**
COUNTRY CODE: **US**
LAND NET LOCATION DESCRIPTION: **NOT REPORTED**
NAME OF LOCATION MAP: **NEW BRAUNFELS WES**
SCALE OF LOCATION MAP: **24000**
ALTITUDE OF GAGE/LAND SURFACE: **634.7**
METHOD OF ALTITUDE DETERMINED: **LEVEL OR OTHER SURVEYED METHOD**
ALTITUDE ACCURACY: **1**
ALTITUDE DATUM: **NGVD29**
HYDROLOGIC UNIT CODE: **12100202**
DRAINAGE BASIN CODE: **NOT REPORTED**
TOPOGRAPHIC SETTING CODE: **T**
DATE OF FIRST CONSTRUCTION: **1990**
DATE SITE ESTABLISHED OR INVENTORIED: **19900119**
DRAINAGE AREA: **NOT REPORTED**
CONTRIBUTING DRAINAGE AREA: **NOT REPORTED**
MEAN GREENWICH TIME OFFSET: **CST**
LOCAL STANDARD TIME FLAG: **Y**
DATA RELIABILITY: **DATA HAVE BEEN CHECKED BY THE REPORTING AGENCY**
LOCAL AQUIFER: **NOT REPORTED**
LOCAL AQUIFER TYPE CODE: **C**
NATIONAL AQUIFER CODE: **S500EDRTRN**
WELL DEPTH: **652 FEET**
HOLE DEPTH: **959 FEET**
SOURCE OF DEPTH DATA: **G**
PROJECT NUMBER: **4648-00271**
REAL-TIME DATA FLAG: **0**
PEAK-STREAMFLOW DATA BEGIN DATE: **--**
PEAK-STREAMFLOW DATA END DATE: **--**
PEAK-STREAMFLOW DATA COUNT: **0**
WATER-QUALITY DATA BEGIN DATE: **1990-01-11**
WATER-QUALITY DATA END DATE: **--**
WATER-QUALITY DATA COUNT: **43**
FIELD WATER-LEVEL MEASUREMENTS BEGIN DATE: **--**
FIELD WATER-LEVEL MEASUREMENTS END DATE: **--**

FIELD WATER-LEVEL MEASUREMENTS COUNT: **0**

SITE-VISIT DATA BEGIN DATE: **--**

SITE-VISIT DATA END DATE: **--**

SITE-VISIT DATA COUNT: **0**

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MAP ID# 15 **Distance from Property: 0.435 mi. (2,297 ft.) WNW**

GEOSEARCH ID: **00419887**
REPORTING AGENCY: **US GEOLOGICAL SURVEY**
SITE IDENTIFICATION NUMBER: **294226098081002**
STATION NAME: **DX-68-23-619B**
SITE TYPE: **WELL**
LATITUDE: **29.707446680**
LONGITUDE: **-98.136397800**
DISTRICT CODE: **48**
STATE CODE: **48**
COUNTY CODE: **091**
COUNTRY CODE: **US**
LAND NET LOCATION DESCRIPTION: **NOT REPORTED**
NAME OF LOCATION MAP: **NEW BRAUNFELS WES**
SCALE OF LOCATION MAP: **24000**
ALTITUDE OF GAGE/LAND SURFACE: **635**
METHOD OF ALTITUDE DETERMINED: **ALTIMETER**
ALTITUDE ACCURACY: **1**
ALTITUDE DATUM: **NGVD29**
HYDROLOGIC UNIT CODE: **12100202**
DRAINAGE BASIN CODE: **NOT REPORTED**
TOPOGRAPHIC SETTING CODE: **NOT REPORTED**
DATE OF FIRST CONSTRUCTION: **1990**
DATE SITE ESTABLISHED OR INVENTORIED: **19900119**
DRAINAGE AREA: **NOT REPORTED**
CONTRIBUTING DRAINAGE AREA: **NOT REPORTED**
MEAN GREENWICH TIME OFFSET: **CST**
LOCAL STANDARD TIME FLAG: **Y**
DATA RELIABILITY: **DATA HAVE BEEN CHECKED BY THE REPORTING AGENCY**
LOCAL AQUIFER: **NOT REPORTED**
LOCAL AQUIFER TYPE CODE: **C**
NATIONAL AQUIFER CODE: **S500EDRTRN**
WELL DEPTH: **787 FEET**
HOLE DEPTH: **959.3 FEET**
SOURCE OF DEPTH DATA: **G**
PROJECT NUMBER: **4648-00272**
REAL-TIME DATA FLAG: **0**
PEAK-STREAMFLOW DATA BEGIN DATE: **--**
PEAK-STREAMFLOW DATA END DATE: **--**
PEAK-STREAMFLOW DATA COUNT: **0**
WATER-QUALITY DATA BEGIN DATE: **1990-06-14**
WATER-QUALITY DATA END DATE: **--**
WATER-QUALITY DATA COUNT: **15**
FIELD WATER-LEVEL MEASUREMENTS BEGIN DATE: **--**
FIELD WATER-LEVEL MEASUREMENTS END DATE: **--**

FIELD WATER-LEVEL MEASUREMENTS COUNT: **0**

SITE-VISIT DATA BEGIN DATE: **--**

SITE-VISIT DATA END DATE: **--**

SITE-VISIT DATA COUNT: **0**

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MAP ID# 15 **Distance from Property: 0.421 mi. (2,223 ft.) WNW**

STATE ID: **68-23-619**
OWNER'S NAME: **EDWARDS AQUIFER AUTHORITY - NE WELL**
DATE DRILLED: **00/00/1990**
DEPTH DRILLED: **652'**
WATER USAGE: **UNUSED**
LONGITUDE: **-98**
LATITUDE: **30**
SOURCE: **TWDB**

FORM NO. 9-1204-A
Revised February 1987

Coded by PLR
Checked by
Entered by

DX-68-23-619 (A)
619 (B)
File Code
Date 1-19-90

U.S. DEPT. OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND-WATER SITE SCHEDULE
General Site Data

AGENCY CODE (C4): USGS
SITE ID (C1): 294226098081601
619B .02
PROJECT NO. (C6): 464810101271

STATION NAME (C12): DX-68-23-619A
619B

LATITUDE (C9): 294226
LONGITUDE (C10): 0980816
LAT-LONG ACCURACY (C11): (S) F T M (1 sec, 5 sec, 10 sec, min)

DISTRICT (C5): 48
STATE (C7): 48
COUNTY or TOWN (C8): Comal
County code: 091

LAND NET (C13): ¼ ¼ ¼ S section T township R range meridian

LOCATION MAP (C14): NEW BRAUNFELS WEST
MAP SCALE (C15): 24000

ALTITUDE (C16): 1634.74
USGS Brass Plate
METHOD OF MEASUREMENT (C17): A L M (alti-meter, level, map)
ACCURACY (C18):
HYDROLOGIC UNIT CODE (C20): 2118EDRDA

DRAINAGE BASIN CODE (C801):
TOPOGRAPHIC SETTING (C19): A B C D E F G H K L M O P S (T) U V W
(alluvial fan, playa, stream channel, depression, dunes, flat, flood plain, hill top, sinkhole, lake or swamp, mangrove swamp, offshore, pediment, hillside, terrace, undulating, valley flat, upland draw)

AGENCY USE (C803): (A) I O (active, inactive, inventory only)
DATE INVENTORIED (C711): 01 (month) - 19 (day) - 1990 (year)
STATION TYPE (C802) (Place a 'Y' in the appropriate box): (Y) well

DATA TYPE (C804) (Place an 'A' (active), an 'I' (inactive), or an 'O' (inventory) in the appropriate box)
WL cont. WL int. QW cont. QW int. Site water use

INSTRUMENTS (C805) (Place a 'Y' in the appropriate box):
digital recorder, graphic recorder, telemetry land line, telemetry radio, telemetry satellite, AHDAS, deflection meter, bubble gage, CR type recorder, weighing rain gage, tipping bucket rain gage

REMARKS (C806): BORE HAS TWO SAMPLING ZONES

EDWARDS UNDERGROUND WATER DISTRICT
TD-959.3 (Plugged Back To 787')
Driller: Texas Water Wells
Drilled: 1990

ROUND-WATER SITE DATA

DATA RELIABILITY (C3) O I M U — field checked, location, minimal data, unchecked

SITE TYPE (C2) C D F H M A O P T W X — collector, drain, excavation, sink hole, connector well, multiple wells, outcrop, pond, tunnel, well, test hole

DATE OF CONSTRUCTION (C21) 01 - [ ] - 1990 (month - day - year)

USE OF SITE (C23) A C D E G H M O R S T U W X Z — anode, standby, emergency supply, drain, geothermal, seismic, heat reservoir, mine, observation, oil or gas, recharge, repressurize, test, unused, withdrawal, waste, destroyed.

SECONDARY USE OF SITE (C301) (SEE USE OF SITE) [ ]

TERTIARY USE OF SITE (C302) (SEE USE OF SITE) [ ]

USE OF WATER (C24) A B C D E F H I J K M N P Q R S T U Y Z — air cond., bottling, co-mingle, de water, power, fire, domestic, irrigation, industrial (cooling), mining, medicinal, industrial, public supply, aquaculture, recreation, stock, institutional, unused, desalination, other

SECONDARY USE OF WATER (C25) [ ] (SEE USE OF WATER)

TERTIARY USE OF WATER (C26) [ ] (SEE USE OF WATER)

AQUIFER TYPE (C713) U N C M X — unconfined, single; unconfined, multiple; confined, single; confined, multiple; mixed

PRIMARY AQUIFER (C714) [ ]

HOLE DEPTH (C27) 959.3

WELL DEPTH (C28) 959.3

SOURCE OF DEPTH DATA (C29) A D G L M O R S Z — other gov't., driller, geologist, logs, memory, owner, other reported, reporting agency, other

10" Steel Csg - 518ft.

WATER LEVEL (C30) [ ]

DATE WATER LEVEL MEASURED (C31) (Mandatory if C30, water level, has a value) [ ] - [ ] - 19[ ] (month - day - year)

METHOD OF WATER-LEVEL MEASUREMENT (C34) A B C E G H L M N R S T V Z — airline, analog, calibrated airline, estimated, pressure gage, calibrated press gage, geophysical log, manometer, non-rec. gage, reported, steel tape, electric tape, calibrated elec. tape, other

SITE STATUS FOR WATER LEVEL (C37) D E F G H I J N O P R S T V W X Z — dry, recently flowing, flowing, nearby flowing, nearby recently flowing, injector site, injector site monitor, measurement discon., obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other

SOURCE OF WATER-LEVEL DATA (C33) A D G L M O R S Z — other gov't., driller, geologist, logs, memory, owner, other reported, reporting agency, other

CONSTRUCTION DATA

RECORD TYPE (C754) COINS

RECORD SEQUENCE NO. (C723) 1

DATE OF CONSTRUCTION (C60) 01 - [ ] - 1990 (month - day - year)

NAME OF CONTRACTOR (C63) TEXWATERWELL

SOURCE OF DATA (C64) A D G L M O R S Z — other gov't., driller, geologist, logs, memory, owner, other reported, reporting agency, other

METHOD OF CONSTRUCTION (C66) A B C D H J P R T V W Z — air-rotary, bored or augered, cable tool, dug, hydraulic rotary, jetted, air percussion, reverse rotary, trenching, driven, drive wash, other

TYPE OF FINISH (C68) C F G H O P S T W X Z — porous concrete, gravel w/perf., gravel screen, horiz. gallery, open end, perf. or slotted, screen, sand point, welded, open hole, other

TYPE OF SEAL (C67) B C G N Z — bentonite, clay, cement grout, none, other

BOTTOM OF SEAL (C68) [ ]

METHOD OF DEVELOPMENT (C69) A B C J N P S Z — air-lift pump, bailed, compressed air, jetted, none, pumped, surged, other

HOURS OF DEVELOPMENT (C70) [ ]

SPECIAL TREATMENT (C71) C D E F H M Z — chemicals, dry ice, explosives, deflocculant, hydrofracturing, mechanical, other

DX-68-23-619

CONSTRUCTION HOLE DATA (3 sets shown)

RECORD TYPE (C758) HOLE | RECORD SEQUENCE NO. (C724) | SEQUENCE NO. OF PARENT RECORD (C59)

DEPTH TO TOP OF INTERVAL (C73) | DEPTH TO BOTTOM OF INTERVAL (C74) | DIAMETER OF INTERVAL (C75)

RECORD SEQUENCE NO. (C724)

DEPTH TO TOP OF INTERVAL (C73) | DEPTH TO BOTTOM OF INTERVAL (C74) | DIAMETER OF INTERVAL (C75)

RECORD SEQUENCE NO. (C724)

DEPTH TO TOP OF INTERVAL (C73) | DEPTH TO BOTTOM OF INTERVAL (C74) | DIAMETER OF INTERVAL (C75)

CONSTRUCTION CASING DATA (3 sets shown)

RECORD TYPE (C758) CSNG | RECORD SEQUENCE NO. (C725) | SEQUENCE NO. OF PARENT RECORD (C59)

DEPTH TO TOP OF CASING (C77) | DEPTH TO BOTTOM OF CASING (C78) 518.0 | DIAMETER OF CASING (C79) 10.

[1] CASING MATERIAL (C80) | CASING THICKNESS (C81)

RECORD SEQUENCE NO. (C725)

"Shallow"
DEPTH TO TOP OF CASING (C77) 78.0 | DEPTH TO BOTTOM OF CASING (C78) 648.0 | DIAMETER OF CASING (C79) 2.0

[1] CASING MATERIAL (C80) P | CASING THICKNESS (C81)

RECORD SEQUENCE NO. (C725)

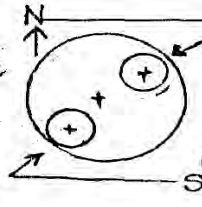
"Deep"
DEPTH TO TOP OF CASING (C77) 784.0 | DIAMETER OF CASING (C79) 2.0

[1] CASING MATERIAL (C80) P | CASING THICKNESS (C81)

FOOTNOTE:

[1] CASING MATERIAL CODES:

B	C	D	G	I	M	P	R	S	T	U	W	Z
brick,	concrete,	copper,	galv. iron	wrought iron,	other metal,	PVC or plastic,	rock or stone,	steel,	tile,	coated steel,	wood,	other material



CONSTRUCTION OPENINGS DATA (3 s[illegible] shown)

RECORD TYPE (C768): OPEN RECORD SEQUENCE NO. (C728): SEQUENCE NO. OF PARENT RECORD (C69):

Plugged Back

DEPTH TO TOP OF INTERVAL (C83): DEPTH TO BOTTOM OF INTERVAL (C84): 1959.3 DIAMETER OF INTERVAL (C87): 8.

2 MATERIAL TYPE (C86): S 3 TYPE OF OPENING (C85): LENGTH OF OPENING (C89): WIDTH OF OPENING (C88):

RECORD SEQUENCE NO. (C728):

DEPTH TO TOP OF INTERVAL (C83): DEPTH TO BOTTOM OF INTERVAL (C84): 1648. DIAMETER OF INTERVAL (C87): 12.0

2 MATERIAL TYPE (C86): P 3 TYPE OF OPENING (C85): LENGTH OF OPENING (C89): 40. WIDTH OF OPENING (C88): .350

RECORD SEQUENCE NO. (C728):

DEPTH TO TOP OF INTERVAL (C83): DEPTH TO BOTTOM OF INTERVAL (C84): 1784. DIAMETER OF INTERVAL (C87): 12.0

Gravel 736-787'

2 MATERIAL TYPE (C86): P 3 TYPE OF OPENING (C85): LENGTH OF OPENING (C89): 40. WIDTH OF OPENING (C88): .350

FOOTNOTES:

2 TYPE OF MATERIAL CODES FOR OPEN SECTIONS: B (brass or bronze), C (concrete), G (galv. iron), I (wrought iron), M (other metal), P (PVC or plastic), R (stainless steel), S (steel), T (tile), Z (other)

3 TYPE OF OPENINGS CODES: F (fractured rock), L (louvered/shuttered), M (mesh), P (perf. or slotted), R (wire-wound), S (screen, (unk.)), T (sand point), W (walled), X (open hole), Z (other)

CONSTRUCTION MEASURE POINT DATA

RECORD TYPE (C768): MPNT RECORD SEQUENCE NO. (C728): BEGINNING DATE (C321): - - 19 ENDING DATE (C322): - - 19

M.P. HEIGHT (C323): M.P. REMARKS (C324):

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

STATE NO. DX68-23-619

Texas Water Well Drillers Board
P.O. Box 13087
Austin, Texas 78711

1) OWNER EDWARDS UNDERGROUND WATER DIST. (Name) ADDRESS P.O. BOX 15830 SAN ANTONIO, TX. 78212 (Street or RFD) (City) (State) (Zip)

2) LOCATION OF WELL: County COMAL . ____ miles in ____ (NE, SW, etc.) direction from NEW BRAUNSFELS (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 ____
XX 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 ____ 19__ Completed ____ 19__

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
15	Surface	528
7 7/8	528	935

7) BOREHOLE COMPLETION:
XX 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	40	LEONA GRAVEL
40	247	PECAN GAP
247	386	AUSTIN CHALK
386	415	EAGLE FORD SHELL
415	561	BUDA LIMESTONE
561	506	DEL RIO CLAY
506	935	EDWARDS LIMESTONE

RECEIVED SEP 09 1991 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 Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casting Screen
10 3/4	N	STEEL	0 + 2	518	
		SEE ATTACHED			

9) CEMENTING DATA [Rule 287.44(1)]
Cemented from SURF. ft. to 518 ft. No. of Sacks Used 320
____ ft. to ____ ft. No. of Sacks Used ____
Method used OILFIELD
Cemented by HOWCO

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]

11) WATER LEVEL:
Static level 5.5 ft. below land surface Date 2/5/90
Artesian flow ____ gpm. Date ____

12) PACKERS: Type ____ Depth ____

13) TYPE PUMP:
☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder
☐ Other ____
Depth to pump bowls, cylinder, jet, etc., VARIED ft.

14) WELL TESTS:
Type Test: XX Pump ☐ Bailer XX Jetted ☐ Estimated
Yield: 40-50 gpm with VARIED ft. drawdown after ____ hrs.

15) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable constituents?
XX Yes ☐ No If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? ____ Depth of strata ____
Was a chemical analysis made? XX Yes ☐ No BY OWNER

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 TEXAS WATER WELLS (Type or print) WELL DRILLER'S LICENSE NO. 02586W

ADDRESS P.O. BOX 1239 (Street or RFD) TOMBALL, (City) TEXAS (State) 77377 (Zip)

(Signed) [signature] (Licensed Well Driller) (Signed) ____ (Registered Driller Trainee)

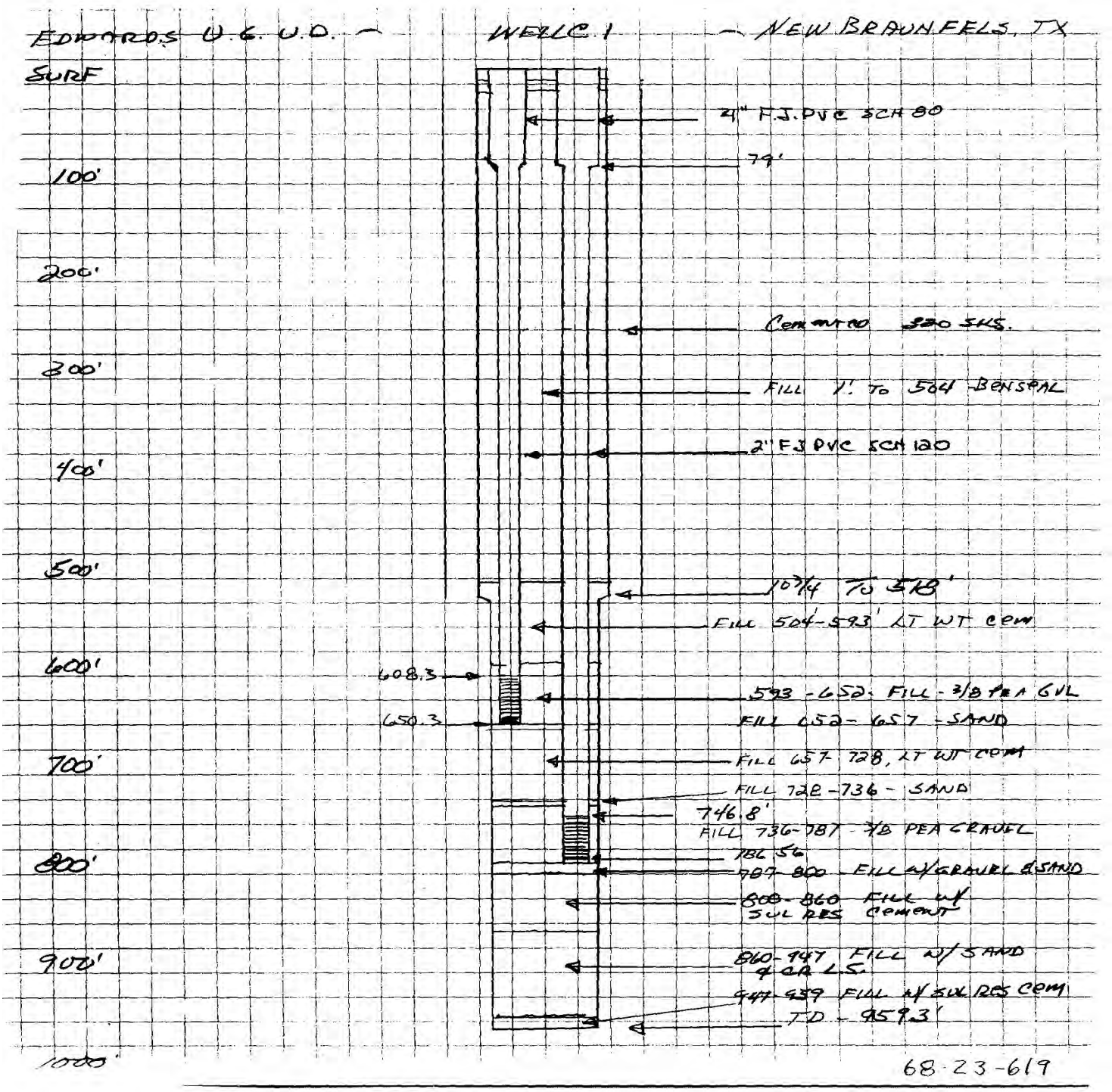
Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only: Well No. ____ Located on map ____

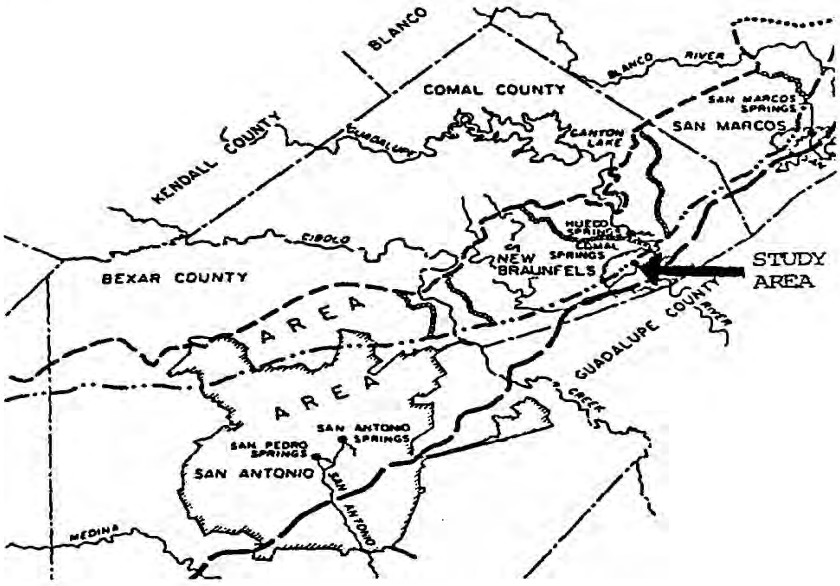
WWD-012 (Rev. 05-18-90)

TEXAS WATER COMMISSION COPY

68-23-619


EDWARDS U.G.U.D. — WELL 1 — NEW BRAUNFELS, TX
SURF
100'
200'
300'
400'
500'
600'
700'
800'
900'
1000'
2" F.J. PVC SCH 80
79'
Cement to 330 SKS.
FILL V. TO 504 BENSEAL
2" FJ PVC SCH 120
10 3/4 TO 518'
FILL 504-593' LT WT CEM
608.3
650.3
593-652: FILL - 3/8 PEA GVL
FILL 652-657 - SAND
FILL 657-728, LT WT CEM
FILL 728-736 - SAND
746.8'
FILL 736-787 - 3/8 PEA GRAVEL
786.56
787-800 FILL W/GRAVEL & SAND
800-860 FILL W/ SVL RES CEMENT
860-947 FILL W/ SAND & CA LS.
947-959 FILL W/ SVL RES CEM
TD - 959.3'
68-23-619

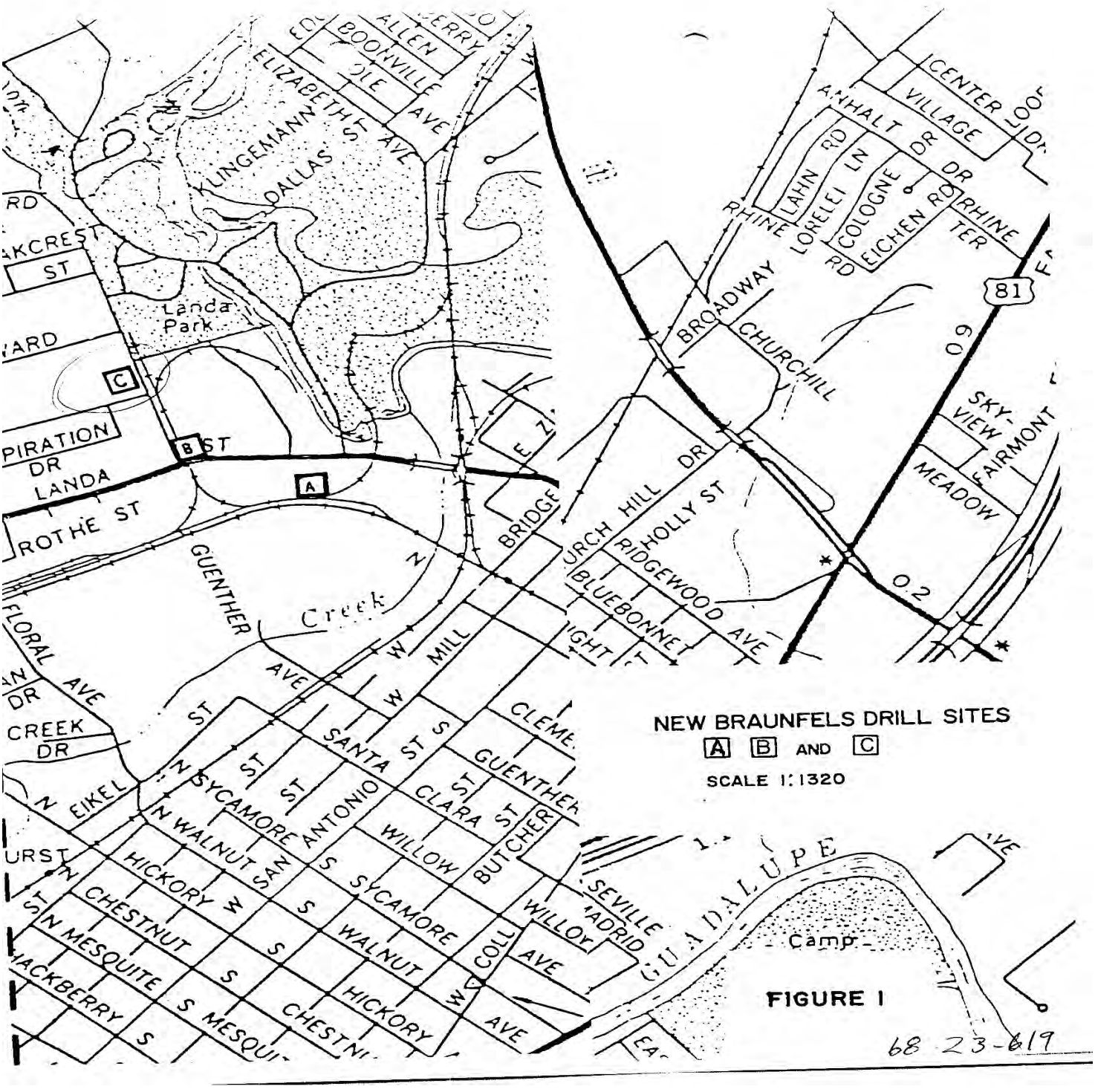
CONTRACT DOCUMENTS FOR THE NEW BRAUNFELS, TX. BAD-WATER LINE MONITORING WELLS DRILLING PROJECT

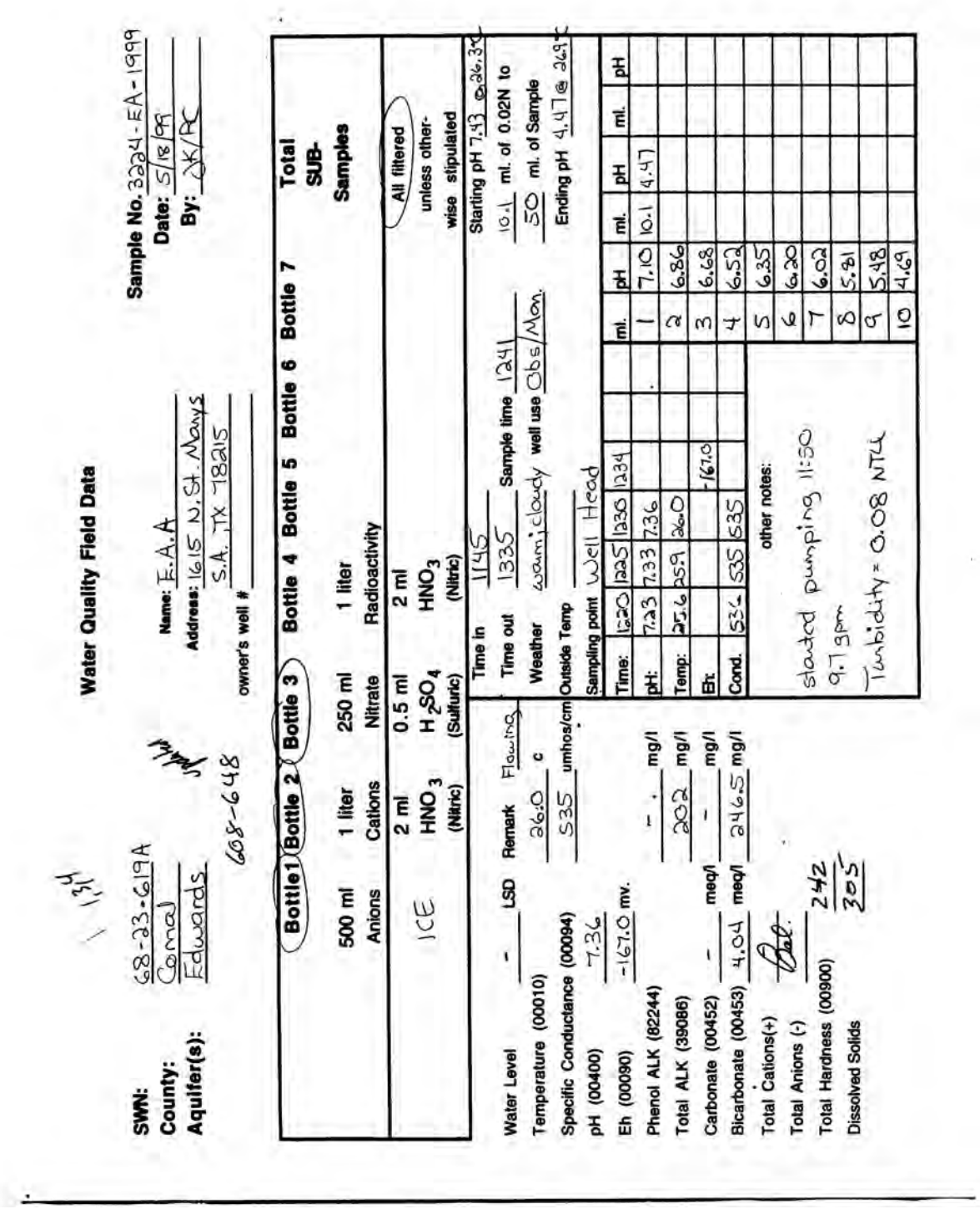


Edwards Underground Water District

April 1989

68-23-619


NEW BRAUNFELS DRILL SITES
A B AND C
SCALE 1:1320
FIGURE 1
68 23-619
Landa Park
Creek
GUENTHER
MILL
BRIDGE
BROADWAY
CHURCHILL
HOLLY ST
RIDGEWOOD AVE
BLUEBONNET
MEADOW
SKY-VIEW
FAIRMONT
ANHALT DR
VILLAGE
CENTER
RHINE
LAHN RD
LORELEI LN
COLOGNE RD
EICHEN RD
RHINE TER
81
ROTHE ST
LANDA
PIRATION DR
FLORAL AVE
CREEK DR
N EIKEL
SANTA
CLARA
ANTONIO
SYCAMORE
WALNUT
HICKORY
CHESTNUT
MESQUITE
HACKBERRY
WILLOW
BUTCHER
COLL
AVE
SEVILLE
GUADALUPE
Camp
ELIZABETH ST
KLINGEMANN
DALLAS
BOONVILLE
ALLEN
AVE



Water Quality Field Data

SWN: 68-23-619A
County: Comal
Aquifer(s): Edwards

Name: E.A.A
Address: 1615 N. St. Marys
S.A. TX 78215
owner's well #

Sample No. 3234-EA-1999
Date: 5/18/99
By: JK/RC

Bottle1	Bottle 2	Bottle 3	Bottle 4	Bottle 5	Bottle 6	Bottle 7	Total SUB-Samples
500 ml Anions	1 liter Cations	250 ml Nitrate	1 liter Radioactivity				
ICE	2 ml HNO_3 (Nitric)	0.5 ml H_2SO_4 (Sulfuric)	2 ml HNO_3 (Nitric)				All filtered unless otherwise stipulated

Water Level — LSD — Remark Flowing
Temperature (00010) — 26.0 c
Specific Conductance (00094) — 535 umhos/cm
pH (00400) — 7.36
Eh (00090) — -167.0 mv.
Phenol ALK (82244) — - . mg/l
Total ALK (39086) — 202 mg/l
Carbonate (00452) — - meq/l — - mg/l
Bicarbonate (00453) — 4.04 meq/l — 246.5 mg/l
Total Cations(+) — Bal.
Total Anions (-) — 242
Total Hardness (00900) — 305
Dissolved Solids

Time in 1145
Time out 1335 Sample time 1241
Weather warm; cloudy well use Obs/Mon.
Outside Temp
Sampling point well Head

Time:	1220	1225	1230	1234			ml.	pH	ml.	pH	ml.	pH
pH:	7.23	7.33	7.36				1	7.10	10.1	4.47		
Temp:	25.6	25.9	26.0				2	6.86				
Eh:				-167.0			3	6.68				
Cond.	534	535	535				4	6.52				
							5	6.35				
							6	6.20				
							7	6.02				
							8	5.91				
							9	5.48				
							10	4.69				

other notes:
slated pumping 11:50
9.7 gpm
Turbidity = 0.08 NTU

Starting pH 7.43 @ 26.3C
10.1 ml. of 0.02N to
50 ml. of Sample
Ending pH 4.47 @ 26.9C

Environmental Laboratory Services
The Solution Lab

FINAL ANALYSIS REPORT

LAB ID: 9907662 SAMPLE DESCRIPTION: Groundwater
COMPANY: TX Water Dev. Board SAMPLE DATE: 05/18/99
ACCT NO: SAMPLE TIME: 1241
REQUISITION No.: R10944 DATE RECEIVED: 05/24/99
LOCATION ID: 68-23-619A 608-648 REPORT DATE: 06/23/99

PARAMETER	RESULTS	UNITS	STORET #	PQL in WATER	DATE ANALYZED
Bromide	0.09	mg/L	71870	0.02	05/26/99
Chloride	23.0	mg/L	00941	1.5	05/26/99
Fluoride	2.42	mg/L	00950	0.01	05/26/99
Nit.,nitri/nitra-AFA	<0.020	mg/L	00630	0.010	05/26/99
Nitrogen, Kjeldahl	<0.040	mg/L	00623	0.040	05/28/99
Nitrogen, ammonia	<0.040	mg/L	00608	0.040	05/25/99
Phosphorus, Total	<0.040	mg/L	00665	0.040	05/28/99
Silica	14.70	mg/L	00955	0.50	05/27/99
Sulfate	44.30	mg/L	00946	1.50	05/26/99
Alkalinity, Total	191	mg/L	00410	1	05/25/99
Alkalinity, Phenol.	0	mg/L	00415	0	05/25/99
Boron, Dissolved	107.00	ug/L	01020	50.00	06/10/99
Cobalt, Diss. ICPMS	<1.0	ug/L	01035	1.0	06/04/99
Iron, Dissolved	91.00	ug/L	01046	50.00	06/10/99
Lithium, Diss. ICPMS	17.9	ug/L	01130	2.0	06/04/99
Molybdenum Dis ICPMS	<1.0	ug/L	01060	1.0	06/04/99
Potassium, Dissolved	1.65	mg/L	00935	0.20	06/10/99
Strontium, Dissolved	2890.00	ug/L	01080	20.00	06/10/99
Vanadium, Diss ICPMS	<1.0	ug/L	01085	1.0	06/04/99
Aluminum, Dis. ICPMS	<4.0	ug/L	01106	4.0	06/04/99
Arsenic, Diss. ICPMS	<2.0	ug/L	01000	2.0	06/04/99
Barium, Diss. ICPMS	40.1	ug/L	01005	1.0	06/04/99
Cadmium, Diss. ICPMS	<1.0	ug/L	01025	1.0	06/04/99
Calcium, Dissolved	47.20	mg/L	00915	0.20	06/10/99
Chromium, Diss ICPMS	<1.0	ug/L	01030	1.0	06/04/99
Copper, Diss. ICPMS	<2.0	ug/L	01040	2.0	06/04/99
Lead, Diss. ICPMS	<1.0	ug/L	01049	1.0	06/04/99
Magnesium, Dissolved	29.60	mg/L	00925	0.20	06/10/99
Manganese, Dis ICPMS	<1.0	ug/L	01056	1.0	06/04/99
Nickel, Diss. ICPMS	<1.0	ug/L	01065	1.0	06/04/99
Selenium, Dis. ICPMS	<4.0	ug/L	01145	4.0	06/04/99
Sodium, Dissolved	14.10	mg/L	00930	0.20	06/10/99
Antimony, Dis. ICPMS	<1.0	ug/L	01095	1.0	06/04/99
Beryllium, Dis ICPMS	<1.0	ug/L	01010	1.0	06/04/99
Thallium, Diss ICPMS	<1.0	ug/L	01057	1.0	06/04/99
Zinc, Diss. ICPMS	<2.0	ug/L	01090	2.0	06/04/99

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Lower Colorado River Authority • P.O. Box 220 • Austin, Texas 78767
3505 Montopolis Drive • Austin, Texas 78744 • (512) 356-6022 • (800) 776-5272 • (512) 356-6021 FAX

Water Quality Field Data

Sample No. 3225-EA-1999
Date: 5/18/99
By: JK/RC

SWN: 68-23-619 (3) 74 71
County: Comal
Aquifer(s): Edwards

Name: E.A.A.
Address: 1615 N. St. Mary's
SA, TX 78215
owner's well # 744-784

Bottle 1	Bottle 2	Bottle 3	Bottle 4	Bottle 5	Bottle 6	Bottle 7	Total SUB-Samples
500 ml Anions	1 liter Cations	250 ml Nitrate	1 liter Radioactivity				
ICE	2 ml HNO_3 (Nitric)	0.5 ml H_2SO_4 (Sulfuric)	2 ml HNO_3 (Nitric)				All filtered unless otherwise stipulated

Time in 1145
Time out 1335 Sample time 1247
Weather warm, cloudy well use Obs/Mon.
Outside Temp
Sampling point Well Head

Starting pH 7.55 @ 26.6°C
11.05 ml. of 0.02N to
50 ml. of Sample
Ending pH 4.48 @ 26.6°C

Water Level	-	LSD	Remark	Flowing				ml.	pH	ml.	pH	ml.	pH
Temperature (00010)			26.2	c				1	7.17	11	4.58		
Specific Conductance (00094)			558	umhos/cm				2	6.95	11.05	4.48		
pH (00400)	7.3							3	6.77				
Eh (00090)	211	mv.						4	6.62				
Phenol ALK (82244)	-	mg/l						5	6.51				
Total ALK (39086)	221	mg/l						6	6.38				
Carbonate (00452)	-	meq/l						7	6.24				
Bicarbonate (00453)	4.42	meq/l	270.0	mg/l				8	6.07				
Total Cations(+)	Bal.							9	5.85				
Total Anions (-)								10	5.51				
Total Hardness (00900)	260												
Dissolved Solids	316												

other notes:
stacked pumping 1150
9.7 gpm
Turbidity =

Environmental Laboratory Services
The Solution Lab

FINAL ANALYSIS REPORT

LAB ID: 9907663 SAMPLE DESCRIPTION: Groundwater
COMPANY: TX Water Dev. Board SAMPLE DATE: 05/18/99
ACCT NO: SAMPLE TIME: 1247
REQUISITION No.: R10944 DATE RECEIVED: 05/24/99
LOCATION ID: 68-23-619B 744-784 REPORT DATE: 06/23/99

PARAMETER	RESULTS	UNITS	STORET #	PQL in WATER	DATE ANALYZED
Bromide	0.07	mg/L	71870	0.02	05/26/99
Chloride	18.4	mg/L	00941	1.5	05/26/99
Fluoride	1.52	mg/L	00950	0.01	05/26/99
Nit.,nitri/nitra-AFA	<0.020	mg/L	00630	0.010	05/26/99
Nitrogen, Kjeldahl	<0.040	mg/L	00623	0.040	05/28/99
Nitrogen, ammonia	0.041	mg/L	00608	0.040	05/25/99
Phosphorus, Total	0.047	mg/L	00665	0.040	05/28/99
Silica	14.00	mg/L	00955	0.50	05/27/99
Sulfate	48.50	mg/L	00946	1.50	05/26/99
Alkalinity, Total	208	mg/L	00410	1	05/25/99
Alkalinity, Phenol.	0	mg/L	00415	0	05/25/99
Boron, Dissolved	111.00	ug/L	01020	50.00	06/10/99
Cobalt, Diss. ICPMS	<1.0	ug/L	01035	1.0	06/04/99
Iron, Dissolved	102.00	ug/L	01046	50.00	06/10/99
Lithium, Diss. ICPMS	13.5	ug/L	01130	2.0	06/04/99
Molybdenum Dis ICPMS	10.8	ug/L	01060	1.0	06/04/99
Potassium, Dissolved	1.35	mg/L	00935	0.20	06/10/99
Strontium, Dissolved	15800.00	ug/L	01080	20.00	06/10/99
Vanadium, Diss ICPMS	1.2	ug/L	01085	1.0	06/04/99
Aluminum, Dis. ICPMS	<4.0	ug/L	01106	4.0	06/04/99
Arsenic, Diss. ICPMS	<2.0	ug/L	01000	2.0	06/04/99
Barium, Diss. ICPMS	121.6	ug/L	01005	1.0	06/04/99
Cadmium, Diss. ICPMS	<1.0	ug/L	01025	1.0	06/04/99
Calcium, Dissolved	55.40	mg/L	00915	0.20	06/10/99
Chromium, Diss ICPMS	<1.0	ug/L	01030	1.0	06/04/99
Copper, Diss. ICPMS	<2.0	ug/L	01040	2.0	06/04/99
Lead, Diss. ICPMS	<1.0	ug/L	01049	1.0	06/04/99
Magnesium, Dissolved	25.40	mg/L	00925	0.20	06/10/99
Manganese, Dis ICPMS	<1.0	ug/L	01056	1.0	06/04/99
Nickel, Diss. ICPMS	<1.0	ug/L	01065	1.0	06/04/99
Selenium, Dis. ICPMS	<4.0	ug/L	01145	4.0	06/04/99
Sodium, Dissolved	11.40	mg/L	00930	0.20	06/10/99
Antimony, Dis. ICPMS	<1.0	ug/L	01095	1.0	06/04/99
Beryllium, Dis ICPMS	<1.0	ug/L	01010	1.0	06/04/99
Thallium, Diss ICPMS	<1.0	ug/L	01057	1.0	06/04/99
Zinc, Diss. ICPMS	2.6	ug/L	01090	2.0	06/04/99

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Lower Colorado River Authority • P. O. Box 220 • Austin, Texas 78767
3505 Montopolis Drive • Austin, Texas 78744 • (512) 356-6022 • (800) 776-5272 • (512) 356-6021 FAX

LCRA Environmental Laboratory Services

Date: *11-Aug-00*

CLIENT: Texas Water Development Board
Client Sample ID: 68-23-619
Lab Order: 0006270 **COC ID:** 13826
Project: TWDB 9/99 thru 8/00
Collection Date: 06/22/2000 2:37:00 PM
Lab ID: 0006270-13
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	QC Batch	Date Analyzed
ICP METALS, DISSOLVED		**E200.7**					Analyst: **BL**
Calcium	53.4	0.200		mg/L	1	R5166	07/28/2000
Magnesium	24.7	0.200		mg/L	1	R5166	07/28/2000
Potassium	1.24	0.200		mg/L	1	R5166	07/28/2000
Sodium	10.6	0.700		mg/L	1	R5166	07/28/2000
ICP METALS, DISSOLVED		**E200.7**					Analyst: **BL**
Boron	70.1	50.0		µg/L	1	R5167	07/28/2000
Iron	56.8	50.0		µg/L	1	R5167	07/28/2000
Strontium	16700	200		µg/L	10	R5167	07/28/2000
ICPMS METALS, DISSOLVED		**E200.8**					Analyst: **PJM**
Aluminum	ND	4.00		µg/L	1	R5074	07/18/2000
Antimony	ND	1.00		µg/L	1	R5074	07/18/2000
Arsenic	ND	2.00		µg/L	1	R5074	07/18/2000
Barium	110	1.00		µg/L	1	R5074	07/18/2000
Beryllium	ND	1.00		µg/L	1	R5074	07/18/2000
Cadmium	ND	1.00		µg/L	1	R5074	07/18/2000
Chromium	5.15	1.00		µg/L	1	R5074	07/18/2000
Cobalt	ND	1.00		µg/L	1	R5074	07/18/2000
Copper	ND	2.00		µg/L	1	R5074	07/18/2000
Lead	ND	1.00		µg/L	1	R5074	07/18/2000
Lithium	15.1	2.00		µg/L	1	R5074	07/18/2000
Manganese	1.15	1.00		µg/L	1	R5074	07/18/2000
Molybdenum	9.37	1.00		µg/L	1	R5074	07/18/2000
Nickel	1.39	1.00		µg/L	1	R5074	07/18/2000
Selenium	ND	4.00		µg/L	1	R5074	07/18/2000
Thallium	ND	1.00		µg/L	1	R5074	07/18/2000
Vanadium	2.00	1.00		µg/L	1	R5074	07/18/2000
Zinc	ND	4.00		µg/L	1	R5074	07/18/2000
ANIONS BY ION CHROMATOGRAPHY		**E300**					Analyst: **AMJ**
Bromide	0.0700	0.0200		mg/L	1	R4885A	07/06/2000
Chloride	17.5	1.50		mg/L	1	R4885A	07/06/2000
Fluoride	1.35	0.0100		mg/L	1	R4885A	07/06/2000
Sulfate	48.1	1.50		mg/L	1	R4885A	07/06/2000
ALKALINITY		**M2320 B**					Analyst: **CL**
Alkalinity, Phenolphthalein	ND	0		mg/L CaCO3	1	R4888	07/07/2000
Alkalinity, Total (As CaCO3)	209	2.00		mg/L CaCO3	1	R4888	07/07/2000
CATION/ANION BALANCE		**CALCULATION**					Analyst: **AMJ**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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LCRA Environmental Laboratory Services

Date: *11-Aug-00*

CLIENT: Texas Water Development Board
Lab Order: 0006270 **COC ID:** 13826
Project: TWDB 9/99 thru 8/00
Lab ID: 0006270-13

Client Sample ID: 68-23-619
Collection Date: 06/22/2000 2:37:00 PM
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	QC Batch	Date Analyzed
Cation/Anion Balance	Balanced	0		Date	1	R5180	07/31/2000
NITRATE AND NITRITE		**E353.2**					Analyst: **CL**
Nitrogen, Nitrate & Nitrite	ND	0.0200		mg/L	1	R4939E	07/12/2000
SILICA		**E370.1**					Analyst: **CL**
Silica, Dissolved (as SiO2)	13.9	0.500		mg/L	1	R4869F	07/06/2000

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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TWDB Water Quality Field Data Sheet

New Well: yes / no

State Well Number: 68-23-619B

County: Comal

County Code:

Aquifer Code: 11

Aquifer Id: 218EBFZA

Send Results To: Owner / Lessee / DO NOT SEND

Owner's Name: E.A.A.

Lessee's Name:

Attention:

Mailing Address: 1615 N. St. Mary's St.

San Antonio, TX 78215

Well Number: N.B. Transect

Type of Sample: LCRA / HACH

Sample Number: 3244-EA-2000

Date: 6/22/00

Sampler(s): BL

Add enough of the proper acid to each bottle that is preserved to drop the pH to 2.

1 (on ice)	2	3 (on ice)	4 (on ice)	5
500ml (filtered)	500ml (filtered)	250ml (filtered)	40 ml (not filtered)	1 gallon (filtered)
Anions / Total Alkalinity	Cations	Nitrate/Nitrite	Atrazine	Radioactivity
no preservative	1ml Nitric (HNO3)	0.5 ml Sulfuric (H2SO4)	**no preservative**	10 ml Nitric (HNO3)

Time In: 13:15

Time Out: 15:00

W. L. depth from LSD (ft.):

W.L. remark:

Pumping Since: 13:26

Sampling Point: Submersible

Well Use: Monitor

Lift: S

Power: E

Latitude: 29° 42' 26" N

Longitude: 98° 08' 10" W

Elevation: ft.

Sample Time: 14:37

Filter pressure: line

Daily Meter Calibration:

pH	7	7
	4 or 10	10.02
Conductivity	500	494
	1000	999
	2000	
	5000	

Field Alkalinity Titration:

7.6 Start pH 4.5 End pH

50 ml. Sample Size

11.1 ml. Acid added for Total

ml. Acid added for Phenol

Items below calculated from ml. acid added data:

Field Total Alkalinity: 222.0 mg/L

Field Phenol Alkalinity: 0.0 mg/L

Notes:

Sample interval - 944-784

W. Q. Stabilization Parameters Table

Time:	14:15	14:20	14:25	*Final Readings:* 14:25
pH:	7.48	7.50	7.51	7.51
Temperature:	25.6	25.6	25.6	25.6
Conductivity:	537	537	536	536
Conductivity Temperature:	25.7	25.7	25.7	25.7

Items Below Calculated Later From Results:

Total Hardness: 155

Calculated TDS (mg/L): 345

Data Entered By Sampler Into Database: B yes / no

v:\HEM\Groundwater\WaterQuality\3244-EA.wk

revised 6/7/00

TWDB Water Quality Field Data Sheet

New Well: yes / (no)
State Well Number: 68-23-619
County: Comal
County Code: ~~BX~~ 91
Aquifer Code: EBFZA
Aquifer Id: 11

Send Results To: (Owner) / Lessee
Owner's Name: EAA
Lessee's Name:
Attention:
Mailing Address: 1615 N. St. Mary's
San Antonio, Tx 78215
Well Number:

Type of Sample: LCRA / HACH
Sample Number: 04/4-EA-2001
Date: 8/7/2001
Sampler(s): EET / DM

CIRCLE BOTTLES TAKEN:			
1 (on ice)	2	3 (on ice)	
500ml (filtered)	500ml (filtered)	250ml (filtered)	
Anions / Total Alkalinity	Cations	Nitrate/Nitrite	
no preservative	-2 ml Nitric(HNO3)	- 1 ml Sulfuric (H2SO4)	

Add enough of the proper acid to each bottle that is preserved to drop the pH to 2.

Time In: 13:15 Time Out: 14:55

Daily Meter Calibration:		
pH	7	7.01
	4 or 10	4.01
Conductivity	500	499
	1000	1002
	2000	
	5000	

W. L. depth from LSD (ft.):
W.L. remark:

Pumping Since: 1300
Sampling Point:

Well Use: Monitor
Lift: Submersible
Power: Electric
Latitude: 29-42 23
Longitude: 98-08-08
Elevation:

Sample Time: 14:22
Filter pressure: hand pump (line)

Field Alkalinity Titration:
7.38 Start pH 4.50 End pH
50 ml. Sample Size
11.4 ml. Acid added for Total
ml. Acid added for Phenol
Items below calculated from ml. acid added data:
Field Total Alkalinity: 228 mg/L
Field Phenol Alkalinity: mg/L

Notes: 1.52 ntu-turbidity
Stopped from pt B
744-784 sq. removed
[illegible]

Items Below Calculated Later From Results:
Total Hardness: 282
Calculated TDS (mg/L): 332
Balanced: B

Data Entered By Sampler Into Database: Y / no

Water Quality Stabilization Parameters Table

	Time:			Final Readings:
	14:02	14:07	14:13	14:20
pH:	7.25	7.26	7.26	7.26
Temperature (Celsius):	26.3	26.3	26.2	26.3
Conductivity (uS/cm):	563	559	558	559
Conductivity Temperature (Celsius):	26.4	26.5	26.4	26.4

This form is found at:
v:\Client\Projects\WaterQuality\wqstb-master.xls

revised 8/21/00

Final Analysis Report

LCRA Environmental Laboratory Services

Date: *10-Sep-01*

CLIENT: Texas Water Development Board
Client Sample ID: 68-23-619
Lab Order: 0108177 **File No:** 16989
Project: TWDB 00-01B
Collection Date: 08/07/2001 2:22:00 PM
Lab ID: 0108177-01
Matrix: GROUNDWATER

Analyses	Storet	Result	PQL	Qual	Units	DF	BatchID	Date Analyzed
ICP METALS DISSOLVED			**E200.7**					Analyst: **SW**
Calcium	00915	61.6	0.204		mg/L	1.02	R10351	08/29/2001 8:26:33 PM
Magnesium	00925	26.9	0.204		mg/L	1.02	R10351	08/29/2001 8:26:33 PM
Potassium	00935	1.39	0.204		mg/L	1.02	R10351	08/29/2001 8:26:33 PM
Sodium	00930	10.9	0.714		mg/L	1.02	R10351	08/29/2001 8:26:33 PM
ICP METALS DISSOLVED			**E200.7**					Analyst: **SW**
Boron	01020	ND	51.0		µg/L	1.02	R10351	08/29/2001 8:26:33 PM
Iron	01046	ND	51.0		µg/L	1.02	R10388B	08/31/2001 1:01:59 PM
Strontium	01080	16200	20.4		µg/L	1.02	R10351	08/29/2001 8:26:33 PM
ICPMS DISSOLVED METALS			**E200.8**					Analyst: **PJM**
Aluminum	01106	ND	4.00		µg/L	1	R10432	09/04/2001
Antimony	01095	ND	1.00		µg/L	1	R10432	09/04/2001
Arsenic	01000	ND	2.00		µg/L	1	R10432	09/04/2001
Barium	01005	122	1.00		µg/L	1	R10432	09/04/2001
Beryllium	01010	ND	1.00		µg/L	1	R10432	09/04/2001
Cadmium	01025	ND	1.00		µg/L	1	R10432	09/04/2001
Chromium	01030	ND	1.00		µg/L	1	R10432	09/04/2001
Cobalt	01035	ND	1.00		µg/L	1	R10432	09/04/2001
Copper	01040	ND	1.00		µg/L	1	R10432	09/04/2001
Lead	01049	ND	1.00		µg/L	1	R10432	09/04/2001
Lithium	01130	11.5	2.00		µg/L	1	R10432	09/04/2001
Manganese	01056	1.15	1.00		µg/L	1	R10432	09/04/2001
Molybdenum	01060	9.10	1.00		µg/L	1	R10432	09/04/2001
Nickel	01065	2.39	1.00		µg/L	1	R10432	09/04/2001
Selenium	01145	ND	4.00		µg/L	1	R10432	09/04/2001
Thallium	01057	ND	1.00		µg/L	1	R10432	09/04/2001
Vanadium	01085	ND	1.00		µg/L	1	R10432	09/04/2001
Zinc	01090	8.01	4.00		µg/L	1	R10432	09/04/2001
CATION/ANION BALANCES			**CALCULATION**					Analyst: **AMJ**
Cation/Anion Balance		Balanced			Date	1	R10433	09/05/2001
ANIONS BY ION CHROMATOGRAPHY			**E300**					Analyst: **AMJ**

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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LCRA Environmental Laboratory Services

Date: 10-Sep-01

CLIENT: Texas Water Development Board
Client Sample ID: 68-23-619
Lab Order: 0108177 File No: 16989
Project: TWDB 00-01B
Collection Date: 08/07/2001 2:22:00 PM
Lab ID: 0108177-01
Matrix: GROUNDWATER

Analyses	Storet	Result	PQL	Qual	Units	DF	BatchID	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY			**E300**					Analyst: **AMJ**
Bromide Dissolved	71870	0.0741	0.0200		mg/L	1	R10391A	08/30/2001
Chloride Dissolved	00941	17.7	1.00		mg/L	1	R10391A	08/30/2001
Fluoride Dissolved	00950	1.40	0.0100		mg/L	1	R10391A	08/30/2001
Sulfate Dissolved	00946	48.3	1.00		mg/L	1	R10391A	08/30/2001
ALKALINITY			**M2320 B**					Analyst: **CMM**
Alkalinity, Phenolphthalein	00415	ND			mg/L CaCO	1	R10172	08/20/2001
Alkalinity, Total (As CaCO3)	00410	223	2.00		mg/L CaCO	1	R10172	08/20/2001
NITRATE AND NITRITE			**E353.2**					Analyst: **WR**
Nitrogen, Nitrate & Nitrite	00631	0.0629	0.0200		mg/L	1	R10274C	08/24/2001
SILICA			**E370.1**					Analyst: **WR**
Silica, Dissolved (as SiO2)	00995	13.9	0.500		mg/L	1	R10464A	09/06/2001

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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2002FY TWDB Water Quality Field Data Sheet

Sample ID Number: 5537 15529 89
Date: 7/30/02
Sampler(s): EUT/GLC
9/6/2

State Well Number: DX-68-23-604(B) 2
County: Comal
County Code: 091
Aquifer Code: EAST 24
Aquifer Id: 11

Name: 24A
Address: 1615 N. St. Marys St
San Antonio TX 78215
Phone Number: (210) 222-3204
Attention: Sue Johnson
Well Name or #:

CIRCLE EACH SAMPLE FRACTION COLLECTED:			
1	2	3	5
500ml (filtered) Anions / Total Alk. Ice	500ml (filtered) Cations Nitric (HNO3)	250ml (filtered) Nitrate Ice + H2SO4	

Proper preservation requires adding enough of the correct acid to each sample fraction to bring the pH below 2.0.

Time In: 10:30
Time Out:

W.L. depth from LSD (ft.): 326.53
W.L. remark: No Audible
M.P. = 3.33 ft

Pumping Since: 10:45
Sampling Point: Wellhead Faw

Well Use:
Lift:
Power:

FIELD G.P.S. readings
Latitude: 29-42-36.9
Longitude: 98-08-05.3

Sample Time: 12:00

Filter pressure: hand pump / line

Calibration Verification Readings

pH	7.00	7.00	
	4 or 10	4.01	
SLP = 100.3			
Conductivity	500	501	
	1000	1002	
	2000		
	5000		

Field Alkalinity Titration:

7.8 Start pH 4.51 End pH
50.0 mL Sample Size
mL Acid added for Phenol (> 8.3)
10.7 mL Acid added for Total (8.3 - 4.5)
Items below calculated from: mL acid added x 20 = Alkalinity
Phenol Alkalinity (8224): mg/L
Total Alkalinity (39086): 202.00 mg/L

Items Below Calculated Later From Results:
Dissolved Solids (mg/L): 297
Hardness (as CaCO3): 232
Balanced: ✓

Notes: Turbidity = 0.11a NTU

Water Quality Stabilization Parameters Table (at least 3 readings at five minute intervals)

Time:	11:45	11:50	11:55		
pH:	7.41	7.38	7.39		
Celsius Temp. (00010)	24.7	24.8	24.7		
Conductivity (µS/cm):	548	548	548		

Data Entered By Sampler Into Database: yes / no

LCRA Environmental Laboratory Services

Date: 23-Aug-02

CLIENT: Texas Water Development Board
Lab Order: 0208024 File No: 20918
Project: TWDB FY02
Lab ID: 0208024-02

Client Sample ID: 68-23-619
Collection Date: 7/30/02 12:00:00 PM
Matrix: GROUNDWATER

Analyses	Storet	Result	PQL	Qual	Units	DF	BatchID	Date Analyzed
ICP METALS DISSOLVED		E200.7						Analyst: MLP
Calcium		45.9	0.20		mg/L	1	R15551B	8/12/02 9:54:30 PM
Magnesium		27.7	0.20		mg/L	1	R15551B	8/12/02 9:54:30 PM
Potassium		1.48	0.20		mg/L	1	R15551B	8/12/02 9:54:30 PM
Sodium		13.6	0.70		mg/L	1	R15551B	8/12/02 9:54:30 PM
ICP METALS DISSOLVED		E200.7						Analyst: MLP
Boron		168	51		µg/L	1.02	R15553B	8/12/02 9:54:30 PM
Iron		215	51		µg/L	1.02	R15553B	8/12/02 9:54:30 PM
Strontium		3650	20		µg/L	1.02	R15553B	8/12/02 9:54:30 PM
ICPMS DISSOLVED METALS		E200.8						Analyst: SW
Aluminum		ND	4.00		µg/L	1	R15729B	8/20/02
Antimony		ND	1.00		µg/L	1	R15729B	8/20/02
Arsenic		ND	2.00		µg/L	1	R15729B	8/20/02
Barium		54.9	1.00		µg/L	1	R15729B	8/20/02
Beryllium		ND	1.00		µg/L	1	R15729B	8/20/02
Cadmium		ND	1.00		µg/L	1	R15729B	8/20/02
Chromium		ND	1.00		µg/L	1	R15729B	8/20/02
Cobalt		ND	1.00		µg/L	1	R15729B	8/20/02
Copper		ND	1.00		µg/L	1	R15729B	8/20/02
Lead		ND	1.00		µg/L	1	R15729B	8/20/02
Lithium		13.4	2.00		µg/L	1	R15729B	8/20/02
Manganese		6.50	1.00		µg/L	1	R15729B	8/20/02
Molybdenum		1.11	1.00		µg/L	1	R15729B	8/20/02
Nickel		1.88	1.00		µg/L	1	R15729B	8/20/02
Selenium		ND	4.00		µg/L	1	R15729B	8/20/02
Thallium		ND	1.00		µg/L	1	R15729B	8/20/02
Vanadium		ND	1.00		µg/L	1	R15729B	8/20/02
Zinc		ND	4.00		µg/L	1	R15729B	8/20/02
CATION/ANION BALANCES		CALCULATION						Analyst: WM
Cation/Anion Balance		Balanced			Date	1	R15786	8/22/02
ANIONS BY ION CHROMATOGRAPHY, DISSOLVE		E300						Analyst: WR
Bromide Dissolved		0.08	0.02		mg/L	1	R15777D	8/21/02
Chloride Dissolved		22.7	1.00		mg/L	1	R15777D	8/21/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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LCRA Environmental Laboratory Services

Date: 23-Aug-02

CLIENT: Texas Water Development Board
Client Sample ID: 68-23-619
Lab Order: 0208024 **File No:** 20918
Project: TWDB FY02
Collection Date: 7/30/02 12:00:00 PM
Lab ID: 0208024-02
Matrix: GROUNDWATER

Analyses	Storet	Result	PQL	Qual	Units	DF	BatchID	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY, DISSOLVE	**E300**							Analyst: **WR**
Fluoride Dissolved		2.24	0.01		mg/L	1	R15777D	8/21/02
Sulfate Dissolved		44.2	1.00		mg/L	1	R15777D	8/21/02
ALKALINITY	**M2320 B**							Analyst: **CMM**
Alkalinity, Phenolphthalein		ND	0		mg/L CaCO	1	R15519	8/8/02
Alkalinity, Total (As CaCO3)		201	2		mg/L CaCO	1	R15519	8/8/02
NITRATE AND NITRITE	**E353.2**							Analyst: **WM**
Nitrogen, Nitrate & Nitrite		ND	0.02		mg/L	1	R15548B	8/12/02
SILICA	**E370.1**							Analyst: **WM**
Silica, Dissolved (as SiO2)		15.0	0.50		mg/L	1	R15492G	8/8/02

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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2003FY IWDB Water Quality Field Data Sheet

Newly Inventoried Well ___

State Well Number: DX-68-23-604 Name: [illegible]
County: 41 Address: 1615 N St. [illegible] St
County Code: Comal San Antonio TX 7820[illegible]
Aquifer Code: 219BBFZZZ Phone Number: (210) 222-9204
Aquifer Id: 11 Attention: Steve Johnson
Well Name or #: USGS (Bill Scott)

Sample ID Number: 30-GMA-2003
Date: 6/25/03
Sampler(s): DB/GL

CIRCLE EACH SAMPLE FRACTION COLLECTED:				
1	2	3	4	5
500ml (filtered) Anions / Total Alk.	500ml (filtered) Cations	250ml (filtered) Nitrate		
Ice	Nitric (HNO3)	Ice + H2SO4		

Proper preservation requires adding enough of the correct acid to each sample fraction to bring the pH below 2.0.

Time In: 12:00 Time Out: ___
W.L. depth from LSD (ft.): — W.L. remark: — M.P. = —
Pumping Since: 13:05 Sampling Point: DW
Well Use: D
Lift:
Power: N
Casing Type: ___
Casing Size: ___"
Sample Time: 14:15 Filter pressure: hand pump / line

Water Quality Stabilization Parameters Table (at least 3 readings at five minute intervals)

Time:	14:05	14:10	14:15			
pH:	7.95	7.89	7.84			
Celsius Temp. (00010)	24.1	24.0	24.0			
Conductivity (uS/cm):	482	463	483			
	0.15	0.11	0.10			

Calibration Verification Readings

pH	7 =	6.99	
	4 or 10 =	4.01	
SLP = 99.0	7.38 =		
Conductivity	500 =	501	
	1000 =	1003	
	2000 =		
	5000 =		

Field Alkalinity Titration:

7.95	Start pH	4.52 id pH
50.0	mL Sample Size	
	mL Acid added for Phen	(> 8.3)
10.0	mL Acid added for Total	3.-4.5)

Items below calculated from: mL acid added x 20 Alkalinity
Phenol Alkalinity (ff224): 0 mL
Total Alkalinity (3908): 200 mL

FIELD G.P.S. readings

Latitude: ° ' . "
Longitude: ° ' . "

Items Below Calculated Later From sults:
Dissolved Solids (mg/L): 254
Hardness (as CaCO3): 214
Balanced: Y

Notes: Turbidity = 0.96 NTU

Data Entered By Sampler Into Database: Y / N

LCRA Environmental Laboratory Services

Date: 23-Jul-03

CLIENT: Texas Water Development Board
Client Sample ID: 68-23-619
Lab Order: 0307031 File No: 25262
Project: TWDB FY03
Collection Date: 6/25/2003 2:15:00 PM
Lab ID: 0307031-04
Matrix: GROUNDWATER

Analyses	Storet	Result	Qual	PQL	Units	DF	Batch ID	Date Analyzed
ICP METALS DISSOLVED				E200.7				Analyst: MLP
Calcium		37.1		0.20	mg/L	1	20747	7/18/2003 11:50:04 A
Magnesium		28.7		0.20	mg/L	1	20747	7/18/2003 11:50:04 A
Potassium		1.63		0.20	mg/L	1	20747	7/18/2003 11:50:04 A
Sodium		14.4		0.70	mg/L	1	20747	7/18/2003 11:50:04 A
ICP METALS DISSOLVED				E200.7				Analyst: MLP
Boron		281		50	µg/L	1	20780	7/18/2003 5:10:14 PM
Iron		291		50	µg/L	1	20780	7/18/2003 5:10:14 PM
Strontium		3160		20	µg/L	1	20780	7/18/2003 5:10:14 PM
ICPMS DISSOLVED METALS				E200.8				Analyst: SW
Aluminum		ND		4.00	µg/L	1	20601	7/8/2003
Antimony		ND		1.00	µg/L	1	20601	7/8/2003
Arsenic		ND		2.00	µg/L	1	20601	7/8/2003
Barium		46.7		1.00	µg/L	1	20601	7/8/2003
Beryllium		ND		1.00	µg/L	1	20601	7/8/2003
Cadmium		ND		1.00	µg/L	1	20601	7/8/2003
Chromium		ND		1.00	µg/L	1	20601	7/8/2003
Cobalt		ND		1.00	µg/L	1	20601	7/8/2003
Copper		ND		1.00	µg/L	1	20601	7/8/2003
Lead		ND		1.00	µg/L	1	20601	7/8/2003
Lithium		14.4		2.00	µg/L	1	20601	7/8/2003
Manganese		14.2		1.00	µg/L	1	20601	7/8/2003
Molybdenum		ND		1.00	µg/L	1	20601	7/8/2003
Nickel		1.07		1.00	µg/L	1	20601	7/8/2003
Selenium		ND		4.00	µg/L	1	20601	7/8/2003
Thallium		ND		1.00	µg/L	1	20601	7/8/2003
Vanadium		ND		1.00	µg/L	1	20601	7/8/2003
Zinc		5.58		4.00	µg/L	1	20601	7/8/2003
CATION/ANION BALANCES				CALCULATION				Analyst: WM
Cation/Anion Balance		Balanced		0	Date	1	20797	7/22/2003
ANIONS BY ION CHROMATOGRAPHY, DISSOLVE				E300				Analyst: WR
Bromide Dissolved		0.08		0.02	mg/L	1	20706	7/15/2003 8:25:08 PM
Chloride Dissolved		22.5		1.00	mg/L	1	20706	7/15/2003 8:25:08 PM
Fluoride Dissolved		2.07		0.01	mg/L	1	20706	7/15/2003 8:25:08 PM
Sulfate Dissolved		12.8		1.00	mg/L	1	20706	7/15/2003 8:25:08 PM
ALKALINITY				M2320 B				Analyst: CMM
Alkalinity, Phenolphthalein		ND		0	mg/L CaCO3	1	20542	7/3/2003
Alkalinity, Total (As CaCO3)		200		2	mg/L CaCO3	1	20542	7/3/2003

Qualifiers:
- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Page 7 of 26

LCRA Environmental Laboratory Services

Date: 23-Jul-03

CLIENT: Texas Water Development Board
Lab Order: 0307031 File No: 25262
Project: TWDB FY03
Lab ID: 0307031-04

Client Sample ID: 68-23-619
Collection Date: 6/25/2003 2:15:00 PM
Matrix: GROUNDWATER

Analyses	Storet	Result	Qual	PQL	Units	DF	Batch ID	Date Analyzed
NITRATE AND NITRITE			E353.2					Analyst: WM
Nitrogen, Nitrate & Nitrite		ND		0.02	mg/L	1	20557	7/7/2003
SILICA			E370.1					Analyst: WM
Silica, Dissolved (as SiO2)		11.8		0.50	mg/L	1	20573	7/8/2003

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Page 8 of 26

Back to Report Summary

Texas Water Development Board Groundwater Database (TWDB)

MAP ID# 15 **Distance from Property: 0.421 mi. (2,223 ft.) WNW**

STATE ID: **68-23-624**
OWNER'S NAME: **EDWARDS AQUIFER AUTHORITY - SW WELL**
DATE DRILLED: **00/00/1990**
DEPTH DRILLED: **787'**
WATER USAGE: **UNUSED**
LONGITUDE: **-98**
LATITUDE: **30**
SOURCE: **TWDB**

Back to Report Summary

MAP ID# 16 **Distance from Property: 0.423 mi. (2,233 ft.) NNW**

ID NUMBER: **TX230010**
STATE ID : **68-23-6**
OWNER NAME: **EDWARDS UNDERGROUND WATER DISTRICT**
DATE DRILLED: **12/28/1988**
DEPTH DRILLED: **670'**
STATIC LEVEL: **20'**
WATER USAGE: **MONITOR/TEST WELL**
LONGITUDE: **-98.140091000**
LATITUDE: **29.704274000**

3 PAGE(S) OF DRILLERS' LOGS

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 Edwards Underground Water Dist (Name) P.O. Box 15830 (Address) San Antonio, TX 78212 (Street or RFD) (City) (State) (Zip)

2) LOCATION OF WELL: County Comal c.ty limits miles in (N.E., S.W., etc.) direction from New Braunfels (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. #1

☐ 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 12-1 1988 Completed 12-28 1988

DIAMETER OF HOLE Dia. (in.)	From (ft.)	To (ft.)
10	Surface	30
6	30	670

From (ft.)	To (ft.)	Description and color of formation material
		SEE ATTACHED

7) BOREHOLE COMPLETION:
☐ Open Hole ☒ Straight Wall ☐ Underreamed
☐ Gravel Packed ☐ Other ____
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
8	N	steel	0	28	
		Ran trim pipe & plugged to surface			
		Closed to 445 w/Del Rio shale & plugged to surface w/83 sacks cement			

9) CEMENTING DATA (Rule 319.44(b))
Cemented from ____ ft. to ____ ft. No. of Sacks Used ____
____ ft. to ____ ft. No. of Sacks Used 83
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 20 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: ____ gpm with ____ ft. drawdown after ____ hrs.

RECEIVED
SEP 7 1989
TEXAS WATER COMMISSION

(Use reverse side if necessary)

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 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 LOUIS BERGMANN & SONS (Type or Print) Water Well Driller's License No. 1937

ADDRESS 135 South Pecan (Street or RFD) Boerne, (City) TX (State) 78006 (Zip)

(Signed) Glenn Marquardt (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. 58-23-6
Located on map ____

TWC-0392 (Rev. 06-10-85) TEXAS WATER COMMISSION COPY

Dec. 1-28, 1988

Edwards Underground Water Dist.
New Braunfels, TX

0-2	top soil
2-4	gravel
4-15	sandy loam
15-38	gravel
38-41	soft yellow clay
41-61	soft sticky blue shale-very tough drilli
61-93	med soft blue gray shale
93-221	med soft gray shale & rock
221-361	med hard white gray rock-Austin
361-388	med soft dark gray to black shale & rock
388-439	med hard white gray
439-484	soft sticky blue shale-Del Rio
484-506	med hard white gray-Georgetown
506-525	med hard white gray rock
525-538	med hard layer brown rock
538-549	soft layer brown rock-water
549-569	med hard porous layer blue rock
569-571	hard brown rock
571-595	med hard brown rock
595-597	very porous
597-605½	very hard
605½-670	hard & med hard layers of brown rock some soft spots

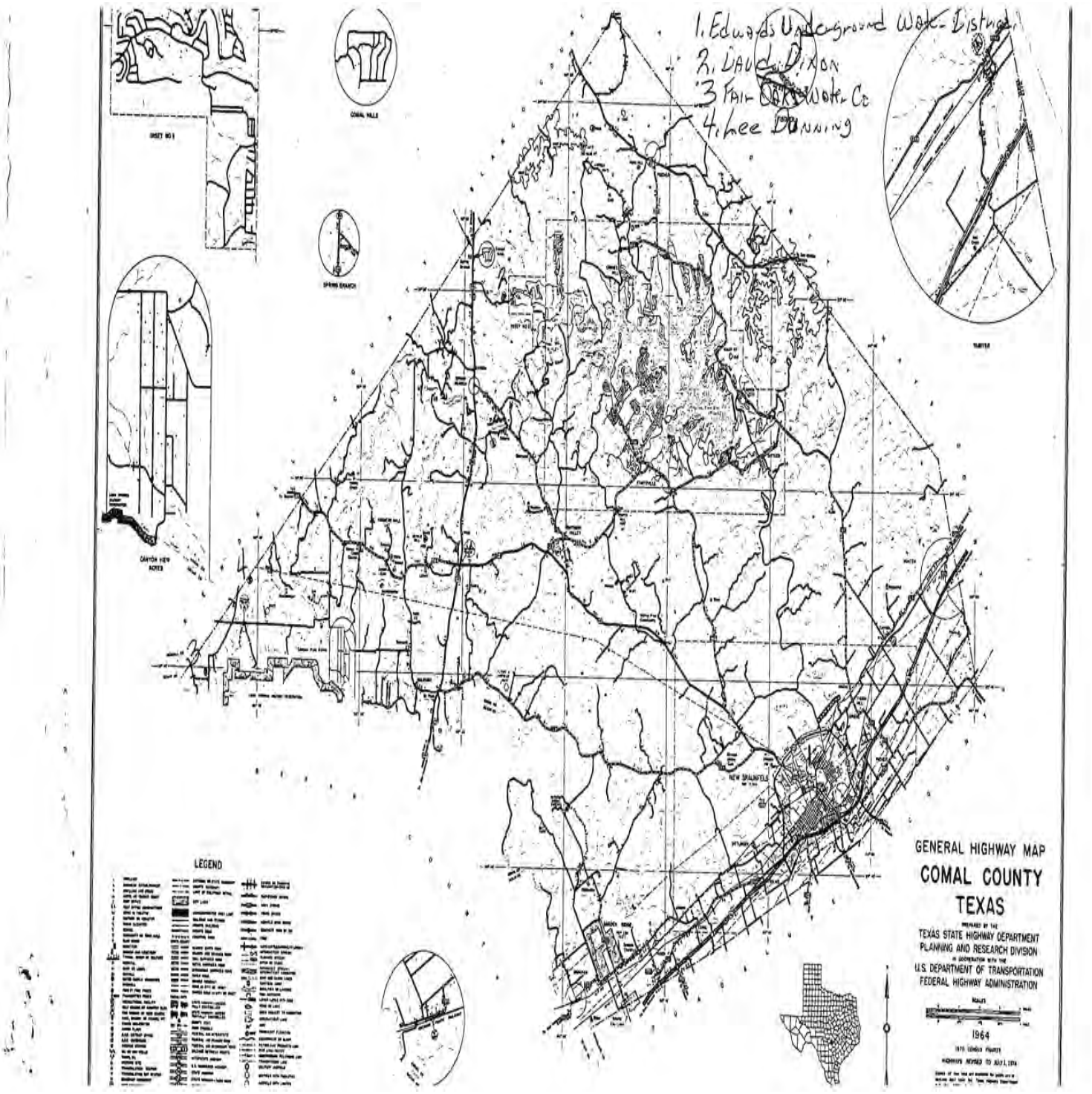
Total Depth: 670'

Ran trim pipe & plugged to surface

Left 28 ft. 8" casing in hole

ER:bm

Water Well ID:



Back to Report Summary

NWIS United States Geological Survey National Water Information System

VERSION DATE: 12/14/16

This USGS National Water Information System database only includes groundwater wells. The USGS defines this well type as: A hole or shaft constructed in the earth intended to be used to locate, sample, or develop groundwater, oil, gas, or some other subsurface material. The diameter of a well is typically much smaller than the depth. Wells are also used to artificially recharge groundwater or to pressurize oil and gas production zones. Additional information about specific kinds of wells should be recorded under the secondary site types or the Use of Site field. Underground waste-disposal wells should be classified as waste-injection wells.

SDRD Submitted Drillers Report Database

VERSION DATE: 11/07/17

This Texas Water Development Board database was created from the online Texas Well Report Submission and Retrieval System (A cooperative TDLR, TWDB system) that registered water-well drillers use to submit their required reports. The system was started in February 2001 and is optional for the drillers to use.

TCEQ Texas Commission on Environmental Quality Water Wells

VERSION DATE: NR

The Texas Commission on Environmental Quality (TCEQ) maintains a filing system of plotted and unnumbered water wells. Plotted water wells are filed according to the County indicated by the driller and the state well number assigned by State of Texas personnel. Given the available location information provided by the driller, personnel identify where the approximate well location should be. After well placement a state well number is assigned indicating that the well lies within a specific 2.5' section of a 7.5' quadrangle. This method allows for quicker, more refined, reference when researching a specific area. Unnumbered water wells have not been assigned a state well number. This can occur for a variety of reasons; however it does not mean the well cannot be accurately spotted. Unnumbered water well records are filed according to County and are often broken up by year or by a span of years.

TWDB Texas Water Development Board Groundwater Database

VERSION DATE: 11/07/17

The Texas Water Development Board Groundwater Database contains information for more than 123,500 sites in Texas including data on water wells, springs, oil/gas tests, water levels, and water quality. The purpose of the Board's data collection effort over the years has been to gain representative information about aquifers in the state in order to do water planning. It is very important, however, to realize that the wells in the database represent only a small percentage of the wells that actually exist in Texas. A registered water well driller is required by law to send in a report to the State for every well that is drilled. This requirement began in 1965, and we estimate that approximately 500,000 wells have been drilled in Texas since then. Of the 1,000,000 plus water wells drilled in Texas over the past 100 years, more than 130,000 have been inventoried and placed into the TWDB groundwater database. State well numbers have been assigned to these based on their location within numbered 7 1/2 minute quadrangles formed by lines of latitude and longitude. This database contains well information including location, depth, well type, owner, driller, construction and completion data.

WUD Water Utility Database

VERSION DATE: NR

The Water Utility Database is defined as a collection of data from Texas Water Districts, Public Drinking Water Systems and Water and Sewer Utilities who submit information to the TCEQ. This database is an integrated database designed and developed to replace over 160 stand alone legacy systems representing over 5 million records of the former Texas Water Commission and the Texas Department of Health.

ATTACHMENT E

HISTORICAL AERIAL PHOTOGRAPHS

Historical Aerial Photographs

NEW: *GeoLens by Geosearch*

Target Property:

Dry Comal Hike and Bike Trail

New Braunfels, Comal, Texas 78130

Prepared For:

Raba Kistner Environmental-San Antonio

Order #: 111976
Job #: 248572
Project #: ASF18-097-00
Date: 7/26/2018

Target Property Summary

Dry Comal Hike and Bike Trail

New Braunfels, Comal, Texas 78130

USGS Quadrangle: ***NEW BRAUNFELS WEST***
Target Property Geometry: ***Corridor***

Target Property Longitude(s)/Latitude(s):

(-98.136996000, 29.698771000), (-98.136883000, 29.698648000), (-98.136777000, 29.698615000), (-98.136618000, 29.698624000), (-98.136507000, 29.698634000), (-98.136310000, 29.698696000), (-98.136178000, 29.698788000), (-98.136047000, 29.698957000), (-98.135902000, 29.699104000), (-98.135868000, 29.699210000), (-98.135782000, 29.699287000), (-98.135663000, 29.699427000), (-98.135569000, 29.699526000), (-98.135506000, 29.699597000), (-98.135404000, 29.699669000), (-98.135293000, 29.699718000), (-98.135211000, 29.699744000), (-98.135163000, 29.699794000), (-98.135115000, 29.699855000), (-98.135002000, 29.699960000), (-98.134902000, 29.700010000), (-98.134769000, 29.700064000), (-98.134590000, 29.700155000), (-98.134256000, 29.700340000), (-98.134043000, 29.700482000), (-98.133929000, 29.700562000), (-98.133720000, 29.700679000), (-98.133561000, 29.700785000), (-98.133531000, 29.700830000), (-98.133523000, 29.700878000), (-98.133537000, 29.700915000), (-98.133591000, 29.700930000), (-98.133927000, 29.700840000), (-98.134035000, 29.700795000), (-98.134218000, 29.700669000), (-98.134381000, 29.700565000), (-98.134512000, 29.700480000), (-98.134353000, 29.700589000), (-98.134206000, 29.700683000), (-98.134045000, 29.700793000), (-98.133929000, 29.700844000), (-98.133593000, 29.700935000), (-98.133545000, 29.700927000), (-98.133495000, 29.700980000), (-98.133481000, 29.701015000), (-98.133481000, 29.701063000), (-98.133499000, 29.701115000), (-98.133505000, 29.701172000), (-98.133485000, 29.701229000), (-98.133424000, 29.701250000), (-98.133354000, 29.701234000), (-98.133352000, 29.701198000), (-98.133382000, 29.701145000), (-98.133441000, 29.701037000), (-98.133491000, 29.700982000), (-98.133435000, 29.700930000), (-98.133342000, 29.700904000), (-98.133284000, 29.700887000), (-98.133286000, 29.700866000), (-98.133346000, 29.700847000), (-98.133429000, 29.700838000), (-98.133529000, 29.700823000), (-98.133561000, 29.700780000), (-98.133543000, 29.700693000), (-98.133507000, 29.700596000), (-98.133428000, 29.700498000), (-98.133230000, 29.700327000), (-98.133057000, 29.700190000), (-98.132771000, 29.699986000), (-98.133059000, 29.700197000), (-98.133338000, 29.700427000), (-98.133431000, 29.700510000), (-98.133503000, 29.700596000), (-98.133541000, 29.700698000), (-98.133555000, 29.700778000), (-98.133529000, 29.700818000), (-98.133465000, 29.700825000), (-98.133435000, 29.700833000), (-98.133358000, 29.700842000), (-98.133288000, 29.700859000), (-98.133278000, 29.700875000), (-98.133065000, 29.700883000), (-98.132822000, 29.700949000), (-98.132709000, 29.701003000), (-98.132578000, 29.700989000), (-98.132407000, 29.700916000), (-98.132295000, 29.700838000), (-98.132212000, 29.700800000), (-98.132069000, 29.700804000), (-98.131991000, 29.700847000), (-98.131953000, 29.700916000), (-98.131870000, 29.700961000), (-98.131706000, 29.701021000), (-98.131354000, 29.701134000), (-98.131143000, 29.701232000), (-98.131109000, 29.701248000), (-98.130904000, 29.701396000), (-98.130788000, 29.701488000), (-98.130573000, 29.701623000),

Aerial Research Summary

Date	Source	Scale	Frame
2016	USDA	1" = 500'	N/A
2014	USDA	1" = 500'	N/A
2012	USDA	1" = 500'	N/A
2010	USDA	1" = 500'	N/A
2008	USDA	1" = 500'	N/A
2005	USDA	1" = 500'	N/A
2004	USDA	1" = 500'	N/A
01/14/1995	USGS	1" = 500'	N/A
04/28/1987	TXDOT	1" = 500'	29
09/23/1976	TXDOT	1" = 500'	250
11/13/1969	ASCS	1" = 1000'	PI-5
02/01/1958	ASCS	1" = 500'	2-163
12/12/1952	AMS	1" = 500'	790
11/20/1938	ASCS	1" = 500'	9-9

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N
W E
S

Dry Comal Hike and Bike Trail
USDA
2016

GeoSearch

JOB #: 248572 - 07/26/2018



N
W E
S

Dry Comal Hike and Bike Trail
USDA
2014

GeoSearch

JOB #: 248572 - 07/26/2018



N
W E
S

Dry Comal Hike and Bike Trail
USDA
2012

GeoSearch

JOB #: 248572 - 07/26/2018



N
W E
S

Dry Comal Hike and Bike Trail
USDA
2010

GeoSearch

JOB #: 248572 - 07/26/2018



N
W E
S

Dry Comal Hike and Bike Trail
USDA
2008

GeoSearch

JOB #: 248572 - 07/26/2018



N
W E
S

Dry Comal Hike and Bike Trail
USDA
2005

GeoSearch

JOB #: 248572 - 07/26/2018

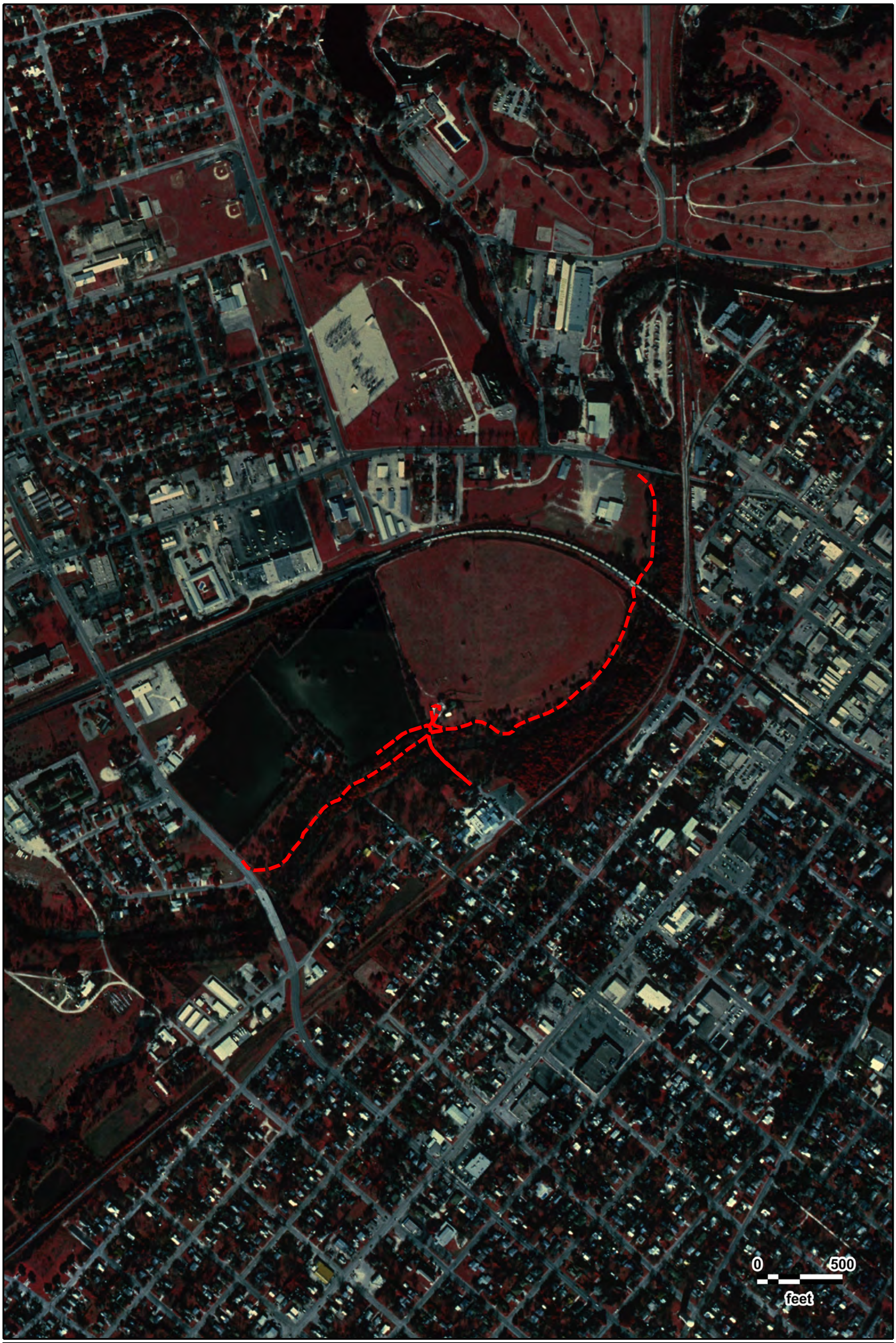


N
W E
S

Dry Comal Hike and Bike Trail
USDA
2004

GeoSearch

JOB #: 248572 - 07/26/2018

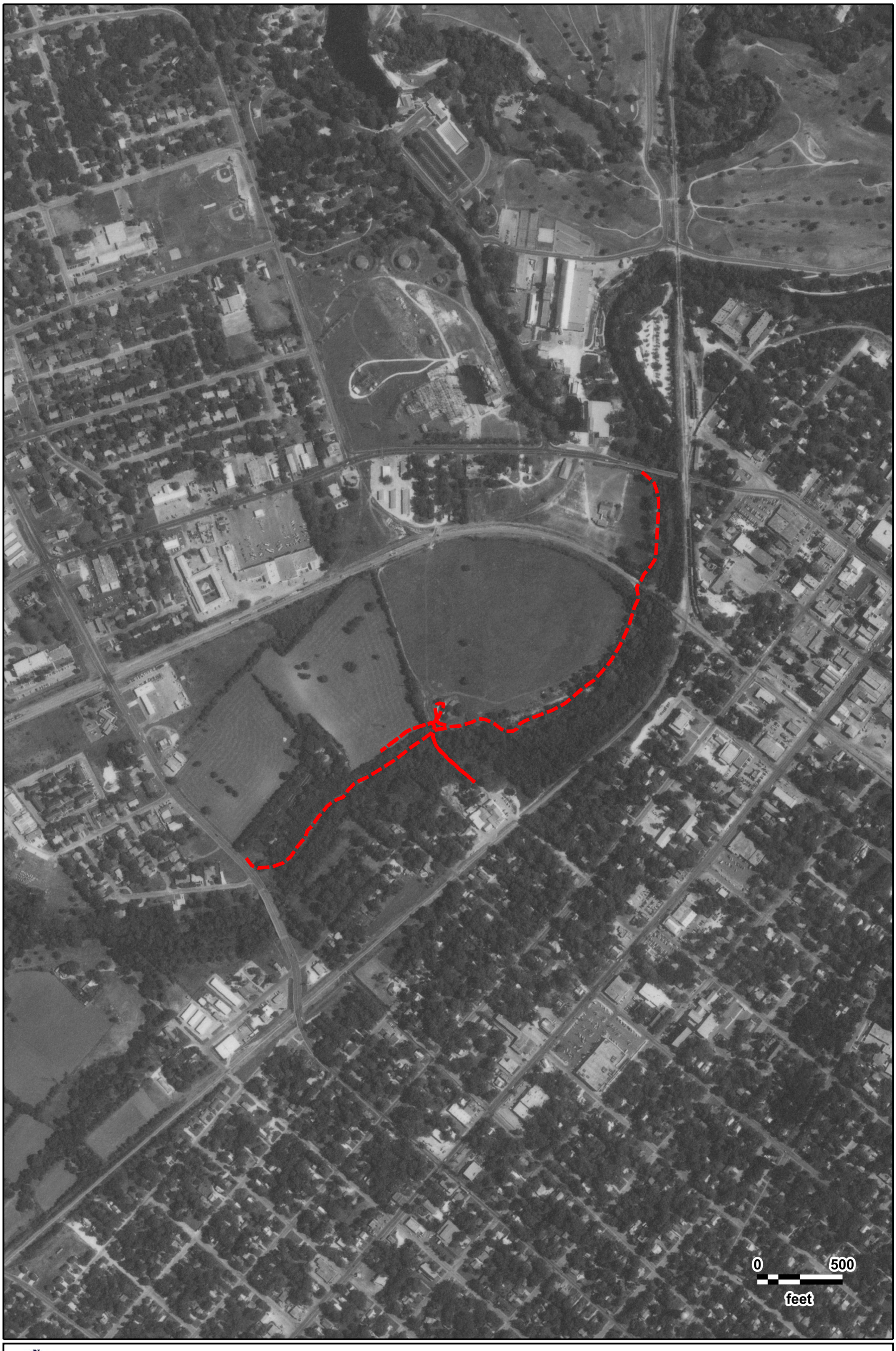


N
W E
S

Dry Comal Hike and Bike Trail
USGS
01/14/1995

GeoSearch

JOB #: 248572 - 07/26/2018



N
W E
S

Dry Comal Hike and Bike Trail
TXDOT
04/28/1987

GeoSearch

JOB #: 248572 - 07/26/2018



N
W E
S

Dry Comal Hike and Bike Trail
TXDOT
09/23/1976

GeoSearch

JOB #: 248572 - 07/26/2018



Dry Comal Hike and Bike Trail
ASCS
11/13/1969

GeoSearch

JOB #: 248572 - 07/26/2018



N
W E
S

Dry Comal Hike and Bike Trail
ASCS
02/01/1958

GeoSearch

JOB #: 248572 - 07/26/2018



N
W E
S

Dry Comal Hike and Bike Trail
AMS
12/12/1952

GeoSearch

JOB #: 248572 - 07/26/2018



N
W E
S

Dry Comal Hike and Bike Trail
ASCS
11/20/1938

GeoSearch

JOB #: 248572 - 07/26/2018

ATTACHMENT F

CITY DIRECTORY REPORT

City Directory Standard Report

Target Property:

Landa St,

New Braunfels, TX 78130

Prepared For:

Raba Kistner Environmental-San Antonio

Order #: 111976

Project #: ASF18-097-00

Date: 7/27/2018

R.L. POLK & CO.

SEGUIN,SANMARCOS,NEWBRAUNFELS 2016

LANDA ST

1	STREET BEGINS	
1	X [N SEGUIN AVE CONTINUES]	
111	KNIGHTS OF COLUMBUS [CLUBS]	
133	ASCOT TRAVEL INC [TRAVEL AGENCIES & BUREAUS]	
133	LONG SHOT WINE BAR [BARS]	
133	TRAVELING GYPSY [TRAVEL AGENCIES & BUREAUS]	
137	BUSINESS PROPERTY TAX GROUP [TAX CONSULTANTS]	
144	CYNERGY ADVISORS [CONSULTANTS- BUSINESS]	155
144	FLEMING & FLEMING [ATTORNEYS]	
144	GRIFFIN ASSET MANAGEMENT [INVESTMENTS]	152
144	HYDREX CORP [OIL/GAS EXPLORATION/ DEVELOPMENT]	
144	LANDMARK LOFTS [REAL ESTATE]	
144	LANDMARK SALON & SPA [BEAUTY SALONS]	266
144	MULTI TENANT RESIDENTIAL	
144	RESTORATIVE HEALTH CARE [HOME HEALTH SERV]	150
144	SILVER PLATE PHOTOGRAPHY [PHOTOGRAPHERS- PROTRAIT]	854
144	TECHNICAL SKILLS DEVELOPMENT [TRAINING CONSULTANTS]	156
144	TEXSYN ENERGY LLC [OIL/GAS EXPLORATION/ DEVELOPMEN]	
145	MECKEL SARAH [COUNSELORS]	
145	RIVER CITY MENTAL HEALTH [MENTAL HEALTH SERV]	
176	DAPPER DOGS [PET WASHING & GROOMING]	111
176	ENCLOSED CAR SHIPPING [FREIGHT- FORWARDING]	
176	HEALTHMAKETS INSURANCE DAVID [INSURANCE]	512

	176	MULTI TENANT RESIDENTIAL
	176	X [LANDA PARK DR INTS]
	231	CABALLERO TOMAS E SR
	231	CABALLERO TOMAS H JR
	235	SINGLEY CELINDA
	235	SINGLEY SALLY
	245	BARNARD-DONEGAN INSURANCE [INSURANCE]
	245	MIXON MORRIS L
	245	US EMPLOYEE BENEFITS SVC GROUP [PENSION & PROFIT PLANS]
	265	BROYLES LESLIE
	265	FIRST FIDELTY TAX & INSURANCE [FINANCIL PLANNING CONSULTANTS]
	267	M & M MINI-STORE CO [STORAGE-HOUSEHOLD & COMMERCIAL]
	267	X [PARADISE ALY ENDS]
	275	TEXAS TOBACCO [CIGAR CIGARETTE & TOBACCO DLRS]
	300	CIMA HOSPICE OF CENTRAL TX LP [HOSPICES]
	300	CLAYTON SHEILA
	300	X [FREDERICKSBURG RD INTS]
	315	FROST BANK FINANCIAL CTR [BANKS]
	315	FROST INSURANCE AGENCY [INSURANCE]
	315	KUNKEL LARRY

R.L. POLK & CO.

SEGUIN,SANMARCOS,NEWBRAUNFELS	2011	**LANDA ST**
	1	STREET BEGINS
	1	X [N SEGUIN AVE CONTINUES]
	111	KNIGHTS OF COLUMBUS [FRATERNAL ORG]
	137	BUSNIESS PROPERTY TAX GROUP [TAX COUNSULTANTS]

144	EVOLUTION CONSULTANTS LLC [BILLING SERV]	
144	GREAT LOCATIONS REALTOR [REAL ESTATE]	
144	GRIFFIN ASSET MANAGEMENT [INVESTMENTS]	
144	HELMLY RENTALS [RENTAL AGENCIES]	
144	LANDMARK LOFTS [RESORTS]	
144	LANDMARK SALON & SPA [BEAUTY SALONS]	
144	LOFT SALON [BEAUTY SALONS]	
144	MULTI TENANT RESIDENTIAL	
144	TURNER ICE [ICE]	
145	BUTTS MICHAEL J & CARMEN P	
176	MULTI TENANT RESIDENTIAL	
176	TRACEY WOLF CO [AUCTIONEERS]	821
176	X [LANDA PARK DR INTS]	
231	CABALLERO GILBERT H	
231	CABALLERO TOMAS E SR	
245	BARNARD-DONEGAN INSURANCE [INSURANCE]	
245	RIATA FINANCIAL SVC INC [INSURANCE]	
265	SOUTH TEXAS TAX ADVISORY GROUP [FINANCIAL PLANNING CONSULTANTS]	
267	BREMER CUSTIS W	
267	M & M MINI-STORE CO [STORAGE-HOUSEHOLD & COMMERCIAL]	
267	X [PARADISE ALY ENDS]	
275	TEXAS TOBACCO [CIGAR CIAGARETTE & TOBACCO DLRS]	
300	JAPHELT LONGCREEK	
300	MICKEY FERELL REALTORS [REAL ESTATE]	
300	X [FREDERICKSBURG RD INTS]	
315	FROST BANK [BANKS]	

COLE DIRECTORY

SAN ANTONIO AND VICINITY 2006

LANDA ST

1	STREET BEGINS
1	X [N SEGUIN AVE INTS]
108	ALMA G GONZALES
108	ARTHUR GONZALES
111	KNIGHTS OF COLUMBUS 4183
137	ALLIED INSTITUTE OF MEDICINE
137	AMERICAN HOMEPATIENT
145	CARMEN P BUTTS
145	MICHAEL J BUTTS ATTORNEY
145	STEPHEN TILLY CONSTRUCTION INC
178	C HERB SKOOG
231	MARTIN CABALLERO
231	TOMAS H CABALLERO
235	BARNARD DONEGAN INSURANCE
245	DONEGAN INSURANCE AGENCY
245	RIATA FINANCIAL SERVICE INC
267	M AND M MINI STORAGE CO
275	GUADALUOE TOBACCO LLC
275	SAMS CLEANERS
275	X [PRIMROSE CIR INTS]
300	MICKEY FERRELL REALTOR PROPERTY MANA
300	MICKEY FERRELL REALTORS
300	NEUTRAL PAINTING
315	FROST NATIONAL BANK

COLE DIRECTORY

SAN ANTONIO AND VICINITY 2000-01

LANDA ST

1	STREET BEGINS
111	COLUMBUS CLUB
111	KNIGHTS COLUMBUS
133	ASCOT TRAVEL INC
137	BARR MICHAEL DDS

	145	BUTTS M J ATTY
	145	MATTHEWS F R CPA
	145	WILLMANN L R CPA
	231	TOMAS CABALLERO
	245	BELLONY CONST CO
	245	COKER ROBERT INS
	245	COKER ROBERT INS
	245	DONEGAN INS AGCY
	245	MORRIS M L CPCU
	245	MORRIS MARTIN L
	245	NORRIS INS AGENCY
	245	PROVIDER INDSTRS
	265	KADERLI INS AGCY
	265	KADERLI JOHN F INS
	265	KADERLI M F INS
	265	PRFSSNL INS AGNTS
	267	BREMER C APPRAISR
	267	M & M MINI STOR
	267	TED G BECKER
	275	TEXAS TOBACCO
	300	KRUEGER DYL RL EST
	300	MCCRCKN DORTHA RL
	300	NEUTRAL PAINTING
	300	TOWN&CNTRY RLTRS
	300	TOWNE&CNTRY RLTRS
	300	WELSCH H FRITZ RL
	300	ZIPP T G RL EST
	330	R&H LQR STRS NO

COLE DIRECTORY

SAN ANTONIO & SURROUNDING COS. 1995-96 **LANDA ST**

1	STREET BEGINS
111	COLUMBUS CLUB

	120	THE OLE MILLSTREAM
	133	ASCOT TRAVEL
	137	DR MICHAEL BARR
	145	F R MATTHEWS CPA
	145	J H DUNN CPA
	145	LARRY R WILLMANN
	145	M J BUTTS ATY
	245	NORRIS INS AGENCY
	245	ROBERT COKER INS
	265	J F KADERILI INS
	265	KADERLI INS AGCY
	265	KADERLI&ASSOCS NC
	265	M F KADERLI INS
	300	D KRUEGER RL EST
	300	D MCCRACKEN RL EST
	300	H F WELSCH RL EST
	300	J&K PAINT CNTRCTRS
	300	T G ZIPP REAL EST
	300	TOWNE&CNTRY RLTRS
	300	TOWNE&COUNTRY RLTR
	315	CITIZENS BANK

COLE DIRECTORY

SAN ANTONIO & SURROUNDING COS.	1990	**LANDA ST**
	1	STREET BEGINS
	111	THE KNGHTS COLUMBS
	133	ASCOT TRAVEL
	137	DR MICHAEL BARR
	145	F R MATTHEWS&ASSCS
	145	M J BUTTS ATY
	151	NO CURRENT LISTING
	157	NO CURRENT LISTING
	215	NO CURRENT LISTING

		231	MARIA CABALLERO
		231	MARTIN CABALLERO
		235	NO CURRENT LISTING
		245	BELTONE BETTER HRG
		245	JAY CRUSADE STRACK
		245	NORRIS INS AGCY
		245	NORRIS INS AGENCY
		255	ENTERPRISE ELECTRC
		265	SPORT KING
		275	LOWER COLO RVR ATH
		275	W T STEPHENS ENVRL
		300	D KRUEGER RL EST
		300	D MCCRACKEN RL EST
		300	H F WELSCH RL EST
		300	J&K PAINT CNTRCTRS
		300	THOMAS G ZIPP RL E
		300	TOWNE&CNTRY RLTRS
		300	TOWNE&COUNTRY RLTR
		315	CITEZN NTL BANK
		315	CITIZENS NAT BANK
COLE DIRECTORY			
SAN ANTONIO	1985	**LANDA ST**	
		1	STREET BEGINS
		111	KNIGHTS OF COLUMBS
		133	DAS SPIELHAUS
		133	SPIELHAUS DAS
		145	JURICA CONSTRUCTN
		145	M J BUTTS ATTY
		151	NO CURRENT LISTING
		157	NO CURRENT LISTING
		210	NO CURRENT LISTING
		215	NO CURRENT LISTING
		231	NO CURRENT LISTING

		235	NO CURRENT LISTING
		245	ARNOLD EQUIPMENT
		245	COMAL CO BLDRS
		245	NORRIS INS AGCY
		245	NORRIS INS AGENCY
		245	RAYMOND DIETERT
		265	SPORT ABOUT
		300	J&K PAINT CNTRCTRS
		300	TOWNE&CNTRY RLTRS
		300	TOWNE&COUNTRY RLTR
		303	JANS VAN TOURS&SVC
		303	OTTIES CUSTM DRPRY

COLE DIRECTORY

SAN ANTONIO	1980	**LANDA ST**	
		1	STREET BEGINS
		111	KNIGHTS OF COLUMBS
		133	DAS SPIELHAUS
		133	SPIELHAUS DAS
		145	NO CURRENT LISTING
		151	NO CURRENT LISTING
		157	NO CURRENT LISTING
		210	ANSELMO Z ESTRADA
		215	NOLA GRADY
		231	NO CURRENT LISTING
		235	EDDIE R ALEMAN
		245	DALES BAKERY
		265	LANDA MEAT CENTER
		300	REEDERS ANSWNG SVC
		300	TOWNE&CNTRY RLTRS
		300	TOWNE&COUNTRY RLTR
		303	CANDLE-LT CTRG&CFE
		303	OTTIES CUSTM DRPRY

COLE DIRECTORY

SAN ANTONIO	1977	**LANDA ST**	
		1	STREET BEGINS
		111	KNIGHTS OF COLUMBS
		133	DAS SPIELHAUS
		133	SPIELHAUS DAS
		145	DONALD A ST JOHN
		151	NO CURRENT LISTING
		157	PETE MATAMOROS SR
		231	TOMAS CABALLERO
		245	DALES BAKRY&DONUT
		265	LANDA MEAT CENTER
		303	CANDLE-LT CTRG&CFE
		303	OTTIES CUSTM DRPRY

COLE DIRECTORY

SAN ANTONIO	1972	**LANDA ST**	
		1	STREET BEGINS
		111	THE KNIGHTS CLMBS
		133	NO CURRENT LISTING
		145	CECIL COBB
		151	JERISUE TOWNSEND
		157	PETE MATAOROS JR
		231	TOMAS CABALLERO
		245	DALES BAKRY&DONUT
		265	RAHE MEAT CENTER
		303	LANDA DRIVE-IN

BUSINESS DIRECTORY PUBLISHING CO.

NEW BRAUNFELS	1966	**LANDA ST**	
		1	STREET BEGINS
		1	W [N SEGUIN INTS]
		1	X [W ZINK WS INTS]
		1	Y [MKT RR INTS]
		1	Z [COMAL CREEK INTS]
		130	DITTLINGER ROLLER MILL

130	X [LANDA PARK DR NS INTS]
133	FARIAS B
133	FARIAS E
145	COBB C J
145	COBB L
145	COBB M
146	LOWER COLORADO RIVER AUTHIRITY
151	FORTSON C L
151	FORTSON G
151	FORTSON P
151	WENZEL P MRS
156	L C R A PLANT
157	COHAN J
157	COHAN M
157	X [PARADISE ALLEY SS INTS]
231	CABALLERO N MRS
231	CABALLERO T
235	MENDOZA F
245	DALE'S BAKERY
245	X [FREDERICKSBURG INTS]
303	LANDA DRIVE IN

BUSINESS DIRECTORY PUBLISHING CO.

NEW BRAUNFELS 1964 **LANDA ST**

1	STREET BEGINS
1	W [N SEGUIN INTS]
1	X [W ZINK INTS]
1	Y [MKT RR INTS]
1	Z [COMAL CREEK INTS]
130	DITTLINGER H ROLLER MILL
130	X [LAND PARK DR INTS]
133	SANDERS OTTO E
145	COBB CECIL J
145	COBB JOE L

		146	LOWER COLORADO RIVER AUTHORITY POWER PLANT
		151	FORTSON CECIL L
		151	WENZEL PAULA
		156	LOWER COLORADO RIVER AUTHORITY POWER PLANT
		157	VACANT
		157	X [PARADISE ALLEY INTS]
		231	CABALLERO MARCISCA
		231	CABALLERO TOMAS E
		235	ALEJOS FRANCES
		235	ALEJOS FRANCES
		235	ALEJOS GILBERTO
		239	VACANT
		255	VACANT
		255	X [LANDA ALLEY INTS]
		293	PEREZ ISABEL
		293	PEREZ VIRGINIA
		293	X [FREDERICKBURG AVE INTS]
		303	LANDA DRIVE-IN
C.B. PAGE & CO.			
NEW BRAUNFELS	1952-53	**LANDA ST**	
		1	STREET BEGINS
		171	EBENSBERGER ANNA MRS
		189	MUELLER OTTO
		220	PARISH C E REV
		224	KIESEWETTER ALFRED
		224	KIESEWETTER GARDENS
		250	KRESCHE K E
		260	LOCK H W
		260	SELF VAL
		264	ROBERT T E
		268	OTTO ALFRED
		268	WENZEL CUNO

298	LOCKE THEKA F MRS
298	NEW BRAUNFELS NURSERY & FLORAL CO
333	GUERRERO HILBERTO

Comment: No coverage available for New Braunfels prior to 1952.

City Directory Standard Report

Target Property:

N Walnut Ave,

New Braunfels, TX 78130

Prepared For:
Raba Kistner Environmental-San Antonio

Order #: 111976

Project #: ASF18-097-00

Date: 7/27/2018

R.L. POLK & CO.

SEGUIN,SANMARCOS,NEWBRAUNFELS 2016

N WALNUT AVE

1	STREET BEGINS	
1	X [W SAN ANTONIO ST CONTINUES]	
125	ROX [NONCLASSIFIED ESTABLISHMENTS]	
125	SOARKLE CLEANING [JANITOR SERV]	
125	X [W MILL ST INTS]	
265	NO CURRENT LISTING	
265	X [W BRIDGE ST INTS]	
265	Y [KATY ST INTS]	
375	NO CURRENT LISTING	
501	LOHMEIER CHIROPRACTIC CTR [CHIROPRACTORS DC]	
607	PRICE WILLIAM	
607	SMITHERS & JEMELA [ATTORNEYS]	
607	SMITHERS MICHAEL B [ATTORNEYS]	
611	HOPE HOSPICE [HOSPICES]	
613	HOPE HOSPICE THRIFT SHOP [THRIFT SHOPS]	
613	HOSPICE THRIFT AVENUE [SERV]	
613	X [CREEK DR BEGINS]	
641	MARTIN CHANIKA N [PSYCHOLOGISTS]	
641	PERSAUD ARTU [COUNSELORS]	
641	RUTLEDGE PAIGE A [COUNSELORS]	
641	T C HEFLIN CO [GENL CONTRACTORS]	
645	GEORGE & JUDY STOCKSTILL [NONCLASSIFIED ESATBLISHMENTS]	
645	TRI COUNTY PRINTING [PRINTERS]	
645	WOMEN INFANTS & CHILDREN [SOCIAL SERV & WELFARE ORG]	
645	X [BAVARIAN DR BEGINS]	
707	COWBOY ELECTRICAL SVC INC [ELECTRIC CONTRACTORS]	101

707	KYLE LAW FIRM [ATTORNEYS]	
707	MONITOR PEST CONTROL-COMAL [PEST CONTROL]	206
707	MONITOR SERVICES [CHIMNEY/TIREPLACE CLEANING BUL]	206
708	QUICK ALIGN [AUTO RPR & SERV]	
711	EAVES SANDRA A	E
711	EAVES SANDRA A BCD LCSW LMFT [PSYCHOTHERAPISTS]	
711	HANZ DECORATING CTR [CARPET & RUG DLRS-NEW]	B
711	MATTRESS LAND FURNITURE [FURNITURE-DLRS-RETAIL]	A
711	OZOLINS ANDRIS J	E
711	PRATT LAMBERT DEALERS [PAINT-RETAIL]	
711	TECH DOCTOR [COMPUTER & EQUIP DLRS]	C
715	KLOBEDANS R L	
715	REBACK VICTOR J	
726	ASSURANCE SPECIALIST OF TX INC [INSURANCE]	101
726	BRAUNTEX STORAGE [STORAGE-HOUSEHOLD & COMMERCIAL]	
726	S & S AUTO SALES [AUTO DLRS-USED CARS]	101
726	SFC PREMIUM FINANCE CO [FINANCING]	101
731	D'AMICO TONI M PA [PHYSICIANS ASSISTANTS]	100
731	NO CURRENT LISTING	
731	WELL MED [PHYSICIANS & SURGEONS]	101
820	LOFT SALON [BEAUTY SALONS]	
820	X [ROTHE LOOP INTS]	

R.L. POLK & CO.

SEGUIN,SANMARCOS,NEWBRAUNFELS 2011

N WALNUT AVE

1	STREET BEGINS

1	X [W SAN ANTONIO ST CONTINUES]	
118	SAC-N-PAC DRIVE GROCERIES [SERV STATIONS- GASOLINE & OIL]	
125	AGAPE DAY SPA [SPAS-BEAUTY & DAY]	
125	SPARKLE CLEANING [JANITOR SERV]	
125	X [W MILL ST INTS]	
265	NO CURRENT LISTING	
265	X [W BRIDGE ST INTS]	
265	Y [KATY ST INTS]	
375	NO CURRENT LISTING	
501	LOHMEIER CHIROPRACTIC CTR [CHIROPRACTORS DC]	
607	SMITHERS & JEMELA [ATTORNEYS]	
607	SMITHERS MICHAEL B	
611	HOPE HOSPICE [HOSPICES]	
611	HOPE PALLIATIVE SVC [CLINICS]	
611	X [CREEK DR BEGINS]	
641	T C HEFLIN CO [GENL CONTRACTORS]	
645	EVANS MICHAEL R	
645	X [BAVARIAN DR BEGINS]	
707	RETIREMENT VALUE LLC [RETIREMENT COMMUNITIES & HOMES]	101
707	SMITH & ASSOC [REAL ESTATE]	102
707	V X SMITH MANAGEMENT [BUSINESS MGMT CONSULTANTS]	104
708	QUICK ALIGN [AUTO RPR & SERV]	
711	HANZ DECORATING CTR [PAINT-RETAIL]	B
711	J D'S BOWLING PRO SHOP [BOWLING CENTERS]	C
711	MATTRESS LAND FURNITURE [FURNITURE-DLRS- RETAIL]	A
711	SANDRA A EAVES & ASSOC [PSYCHOTHERAPISTS]	E
715	REBACK VICTOR J	

	726	ASSURANCE SPECIALISTS OF TX [INSURANCE]
	726	BRAUNTEX STORAGE [STORAGE-HOUSEHOLD & COMMERCIAL]
	726	NEW BRAUNFELS TITLE PLANT [TITLE COMPANIES]
	726	ROBERTS RIHCARD E
	726	S & S AUTO SALES [AUTO DLRS-USED CARS]
	726	SFC PREMIUM FINANCE CO [FINANCIING]
	731	CHILDREN'S DENTISTRY [DENTISTS]
	731	MURO HALTH SOLUTIONS [PHYSICIANS & SURGEONS]
	731	NEW BRAUNFELS AT WELLMED [PHYSICIANS & SURGEONS]
	731	SELLERS CHERYL S
	731	THOEMKE ROBERT J [PHYSICIANS ASSISTANTS]
	731	WARREN MARY R
	820	CHAPA RUTH

COLE DIRECTORY

SAN ANTONIO AND VICINITY 2005

N WALNUT AVE

1	STREET BEGINS
118	LITTLE CAESARS PIZZA
118	SAC N PAC DRIVE IN GROCERY NO 501
124	LITTLE CAESARS
124	LITTLE CAESARS PIZZA
125	BAUMANN CHIROPRACTIC
145	CLAUDIA H FARRIS
364	M B TURNER SR
364	MARGUERITE B TURNER
375	NO CURRENT LISTING
501	LOHMELER CHIROPRACTIC
602	CHARLES F STEITLE
607	DJT INSTALLERS INC

607	HUECO RIDGE CATTLE CO LLC	
607	SMITHERS & JEMELA	
611	HOPE HOSPICE	
611	THRIFT STORE FOR HOSPICE	
617	LIFE TRANSITION CETER	
641	STONE LARUE BAND	
645	BRUECKEL HELEN	
645	REMAX NEW BRAUNFELS	
645	X [KERLICK LN INTS]	
707	ATHENA OPERATOR AND DATA SERVICE INC	207
707	BUILDING	
707	GUNDERSON FINANCIAL SERVICES	
707	SMITH MANAGEMENT INC	
708	ALLENSTARR INC	
708	QUICK ALIGN	
708	QUICK ALIGN BRAKES & SUSPENSION	
710	KZ AUDIO	
711	ALWAYS READY PERMANENT COSMETICS & E	
711	BUILDING	
711	EAVES SANDRA A LMSW ACP & ASSOCIAT	
711	HANZ DECORATING CENTER	B
711	MATTRESS LAND & FURNITURE	
711	PERMANENT COSMETICS BY DEBORAH WILLI	
711	SANDRA E EAVES	E
715	ANN R KLOBEDANS	
726	D & B VENDING	
726	DICK ROBERTS CONSTRUCTION	
726	EDGETEC BORDERS	
726	WHISKEY RIVER SPORTS BAR INC	
731	BUILDING	
731	DR ROGERS OFFICE	101

	731	NEW BRAUNFELS CENTER	
	731	QUANTUM HEALTH CENTERS	
	731	RMG HEALTH CENTERS	101
	731	RYDER MEDICAL GROUP	101
	731	SHELLERS CHERYL S DDS	
	731	WARREN MARY RITA DDS	
	822	CAMPBELL INTERNATIONAL	
	822	STADT REALTY	
	822	TR BOOKS	

COLE DIRECTORY

SAN ANTONIO AND VICINITY 2000-01

N WALNUT AVE

1	STREET BEGINS	
1 NO #	POPEYES	
1 NO #	POPEYES FRD BSCTS	
1 NO #	VERONICA SWITZLER	
118	LITTLE CAESARS PZ	
118	LITTLE CAESARS PZ	
118	SAC N DR GROC NO 1	
265	MARSHALL SOELL	
339	NO CURRENT LISTING	
364	MARGUERITE TURNER	
375	NO CURRENT LISTING	
501	LHMR CHIROPRACTIC	
575	JUDITH WOLF	
602	CHARLES F STEITLE	
607	JEMELA D J ATTY	
607	SMITHERS & JEMELA	
607	SMITHERS M B ATTY	
613	HOSPICE BRNFLS&HM	
613	HOSPICE NEW BRNFTS	
613	HOSPICE NEW BRNFTS	
645	TRI COUNTY OFC EQP	
645	TRI COUNTY OFC EQP	

	645	TRI COUNTY PRINTG
	676	NO CURRENT LISTING
	707	COWBOY ELECTRL INC
	707	E K MOORE
	707	LUTHERAN BRTHD
	707	MRKTNG CNSLTNTS
	707	NEW BRNFLS CNSLNG
	707	VX SMITH MGMT
	707	WAYMER&ASSOCIATES
	708	QUICK ALLIGN
	709	MOORE E KEITH CPA
	710	AUTOMOTIVE AUDIO
	710	AUTOMOTIVE AUDIO
	711	EAVES A ACP&ASSOC
	711	HANZ D?COR CENTER
	711	MATTRESS LND&FURN
	715	NO CURRENT LISTING
	726	BRAUNTEX STORAGE
	726	DICK ROBERTS CONST
	726	NEW BRAUNFELS TTL
	726	NEW BRNFLS TTL CO
	731	HILL COUNTRY MEDCL
	731	WARREN DDS OFFICE
	820	RUTHS HAIR FSHNS

COLE DIRECTORY

SAN ANTONIO & SURROUNDING COS. 1995-96

N WALNUT AVE

1	STREET BEGINS
118	LITTLE CAESARS PZA
118	SAC-N-PAC DRIVE-IN
339	NO CURRENT LISTING
364	NOLAN TURNER SR
375	NO CURRENT LISTING

	501	LOHMEIER CHROPRCTC
	602	CHARLES F STETLE
	613	HOSPICE NEW BRNFLS
	641	P-CHEM INC
	645	TIR-CNTY PRNTG
	645	TRI CNTRY OFC EQUI
	676	NO CURRENT LISTING
	707	B MEHRER INS
	707	D D RENKEN
	707	E J SEIDEL ATY
	707	E KEITH MOORE
	707	GENENTECH INC
	707	PAGE IMPORTS EXPORT
	707	R J PRICHARD ATY
	707	STATE FARM INS
	709	E KEITH MOORE CPA
	710	AUTOMOTIVE AUDIO
	711	GIDEONS INTRNTL
	711	HANZ DECORTG CTR
	711	KIMBERLY QLTY CARE
	711	S A EAVES CPA
	711	THE GIDEONS INTL
	711	WATERBED HAVEN
	715	R L KLOBEDANS
	731	A CAMPOS ATY
	731	DR M R WARREN
	731	J C WHITMIRE ATY
	820	RUTHS HAIR FASHNS

COLE DIRECTORY

SAN ANTONIO & SURROUNDING COS.	1990	**N WALNUT AVE**
	1	STREET BEGINS
	118	LITTLE CAESARS PZA

	118	SAC-N-PAC DRIVE-IN	
	364	NOLAN TURNER SR	
	375	F TORRES	
	501	K SOTTMANN INS AGY	
	602	C F STEITLE	
	613	NOLAN TURNER SR	
	645	TIR-CNTY PRNTG	
	645	TRI- CNTRY OFC EQUI	
	676	NO CURRENT LISTING	
	707	B MEHRER INS	
	707	DARRYL HOAG CPA	
	707	E KEITH MOORE	
	707	K C PRODUCTIONS	
	707	M L MULLINS CPA	102
	707	P-CHEM INC	
	707	RAYMOND DIETERT	
	707	STATE FARMS INS	
	708	MR KLEEN CAR WASH	
	709	E KEITH MOORE CPA	
	710	THE SEAFOOD SHACK	
	711	DR M D TSCHOEPE	A
	711	DR M D TSCHOEPE	A
	711	HANZ DECORTG CTR	
	711	WATERBED HAVEN	
	715	R L KLOBEDANS	
	731	RADIOLOGY ASSOCS	
	731	RADIOLOGY ASSOCS	
	820	RUTHS HAIR FASHNS	

COLE DIRECTORY

SAN ANTONIO	1985	**N WALNUT AVE**	
	1	STREET BEGINS	
	260	NO CURRENT LISTING	
	265	MRS ELENOR SOELL	

		265 1/2	NO CURRENT LISTING	
		364	NOLAN TURNER	
		375	NO CURRENT LISTING	
		501	K SOTTMANN INS AGY	
		602	NO CURRENT LISTING	
		613	R J TARLTON	
		645	TRI CNTRY OFC EQUI	
		645	TRI COUNTY CASH	
		676	NO CURRENT LISTING	
		711	C N TOWNSEND ATTY	
		711	C N TOWNSEND ATY	
		711	DR M D TSCHOEPE	A
		711	HANZ DECORTG CTR	
		711	WATERBED HAVEN	
		715	R L KLOBEDANS	
		731	KENSING CONSTRCTN	
		820	STYLE MASTERS	
COLE DIRECTORY				
SAN ANTONIO	1980	**N WALNUT AVE**		
		1	STREET BEGINS	
		265	MRS ELEANOR SOELL	
		265 1/2	K KLEIN	
		364	NOLAN TURNER	
		375	CARL W NEUSE	
		501	K SOTTMANN INS AGY	
		602	JAMES L READ	
		602	ROBERT W READ	
		612	SUPERX DRUG	
		613	R J TARLTON	
		711	C N C TOWNSEND ATY	
		711	HANZ DECTRG CNTR	
		711	MEDI-SAVE PHARMACY	
		715	R L KLOBEDANS	

		727	COMMNTY SRVC CNTR
		727	SENIOR CITZN HELPG
		820	SUSIES BEAUTY SALN

COLE DIRECTORY

SAN ANTONIO	1975	**N WALNUT AVE**	
		1	STREET BEGINS
		112	NEW BRNFLS BLDRS
		265	MRS ELEANOR SCELL
		364	NOLAN TURNER
		375	NO CURRENT LISTING
		602	DAN LUER
		602	GWEN LUER
		612	SUPERX DRUGS
		613	R J TARLTON
		715	R L KLOBEDANS
		727	REGIN CALHOUN
		820	SUSIES BEAUTY SALN

COLE DIRECTORY

SAN ANTONIO	1970-71	**N WALNUT AVE**	
		1	STREET BEGINS
		133	DR M P OLLPM
		265	MRS ELEANOR SOELL
		364	NOLAN TURNER
		375	ARLON W BRUEMMER
		375	X [END OF LISTINGS]

BUSINESS DIRECTORY PUBLISHING CO.

NEW BRAUNFELS	1966	**N WALNUT AVE**	
		1	STREET BEGINS
		1	X [W SAN ANTONIO INTS]
		122	GEORGE H C
		133	OLLOM M P
		133	X [W MILL INTS]

265	JOHNSON W C	
265	X [W BRIDGE INTS]	
364	TURNER M	
364	TURNER N W	
375	VACANT	
375	X [KATY INTS]	
375	Y [MKT RR INTS]	
375	Z [END OF LISTINGS]	

BUSINESS DIRECTORY PUBLISHING CO.

NEW BRAUNFELS 1964 **N WALNUT AVE**

1	STREET BEGINS	
1	X [W SAN ANTONIO ST INTS]	
133	OLLOM M P OSTEO PHYS	
133	X [W MILL ST INTS]	
265	JOHNSON WALTER C	
265	VACANT	
265	X [W BRIDGE ST INTS]	
364	TURNER NOLAN W	
375	VACANT	
375	X [KATY ST INTS]	
375	Y [M K & T RR INTS]	
375	Z [END OF LISTINGS]	

C.B. PAGE & CO.

NEW BRAUNFELS 1952-53 **N WALNUT AVE**

1	STREET BEGINS	
133	OLLOM M P [PHYS]	
133	PAYNE B L [CHIRO]	
265	MARTIN L M	
265	MCGLOTHLIN WILLIE R MRS	REAR
265	X [END OF LISTINGS]	

Comment: No coverage available for New Braunfels prior to 1952.

ATTACHMENT G

FIRE INSURANCE MAPS

GeoSearch

On time. On target. In touch.™

Fire Insurance Map Abstract

Target Property:

Dry Comal Hike and Bike Trail

New Braunfels, TX 78130

Prepared For:

Raba Kistner Environmental-San Antonio

Order #: 111976

Job #: 248575

Project #: ASF18-097-00

Date #: 07/25/18

phone: 888-396-0042 · fax: 512-472-9967 · www.Geo-Search.com

FIRE INSURANCE MAP ABSTRACT RESEARCH RESULTS

Report Date: 07/25/18
Order Number: 111976
Job Number: 248575
Site Address(es): New Braunfels, TX 78130

This abstract is the result of a visual inspection of various Fire Insurance Map collections. Supporting documentation follows in the Appendix to validate our research. Use of this material is meant for research purposes only. Copyrighted Sanborn Maps can be purchased upon request.

Listed below, please find the results of our search for historic fire insurance maps

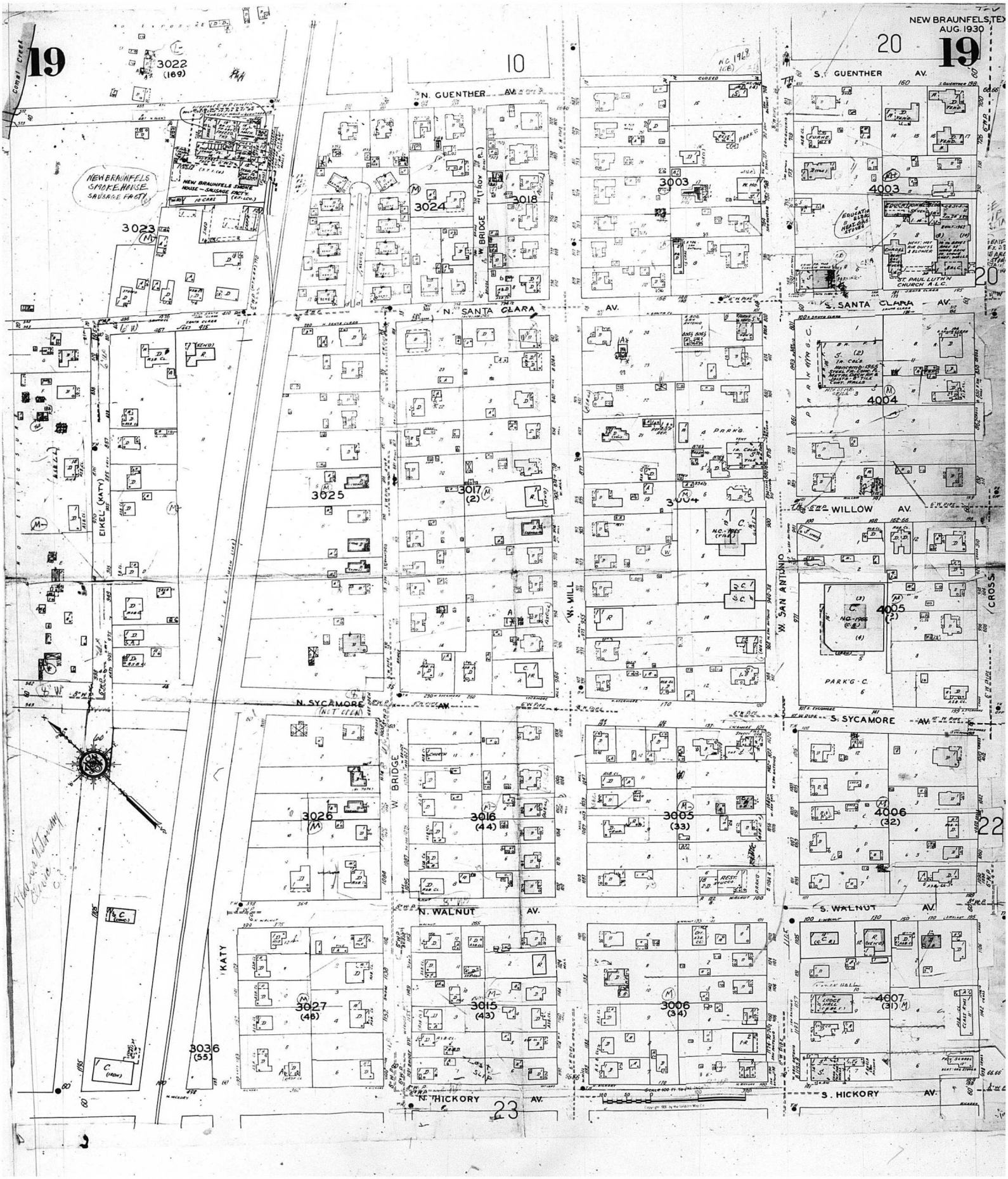
State	City	Date	Volume	Sheet Number(s)
TX	New Braunfels	1969	1	19
TX	New Braunfels	1969	1	10
TX	New Braunfels	1969	1	4
TX	New Braunfels	1969	1	12
TX	New Braunfels	1949	1	12
TX	New Braunfels	1949	1	19
TX	New Braunfels	1949	1	10
TX	New Braunfels	1949	1	4
TX	New Braunfels	1930	1	19
TX	New Braunfels	1930	1	10
TX	New Braunfels	1930	1	4
TX	New Braunfels	1930	1	12
TX	New Braunfels	1922	1	19
TX	New Braunfels	1922	1	16
TX	New Braunfels	1922	1	13
TX	New Braunfels	1922	1	2
TX	New Braunfels	1912	1	4
TX	New Braunfels	1912	1	2
TX	New Braunfels	1907	1	4
TX	New Braunfels	1907	1	2

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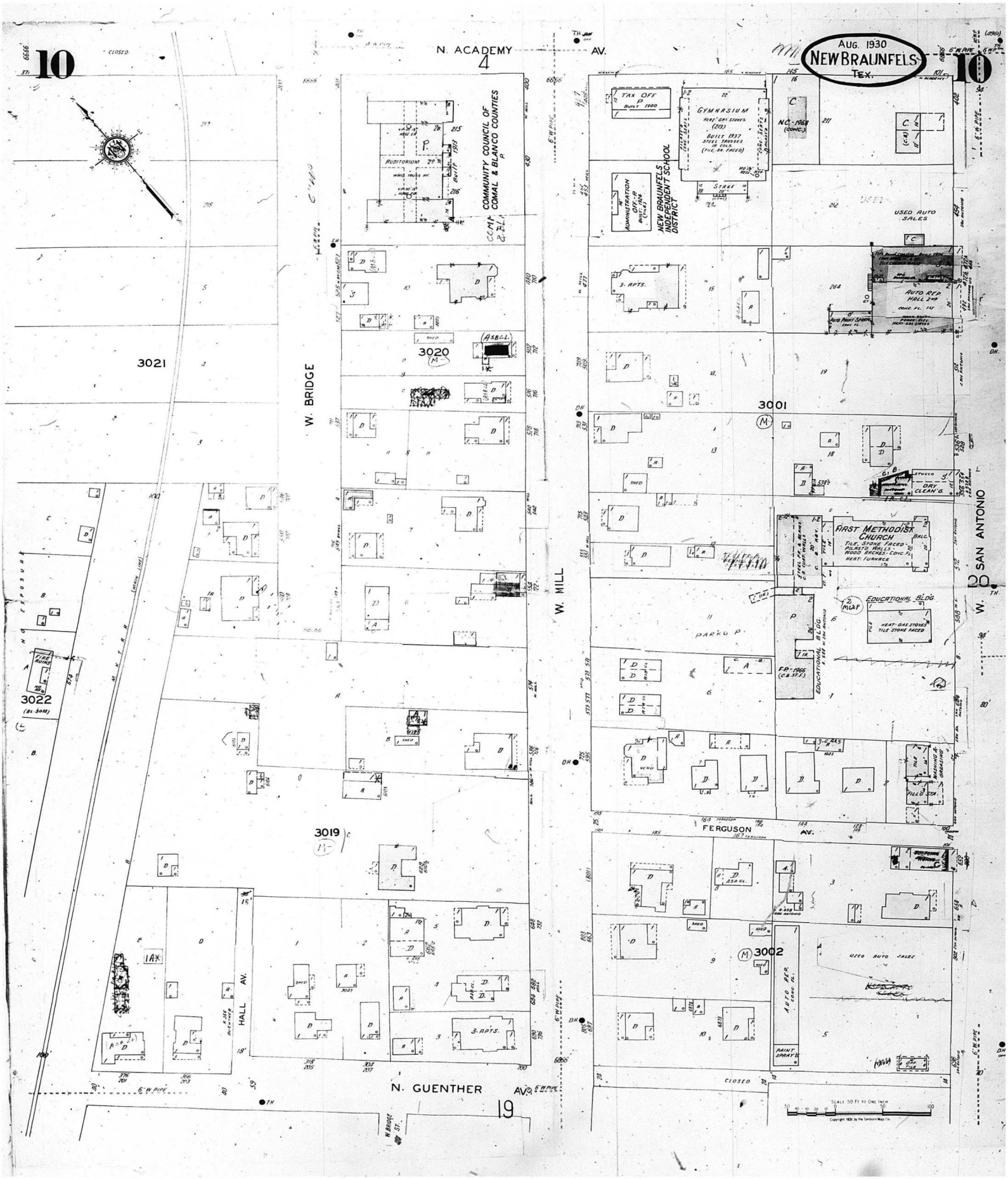
phone: 888-396-0042 · fax: 512-472-9967 · www.Geo-Search.com

Appendix
Supporting Documentation



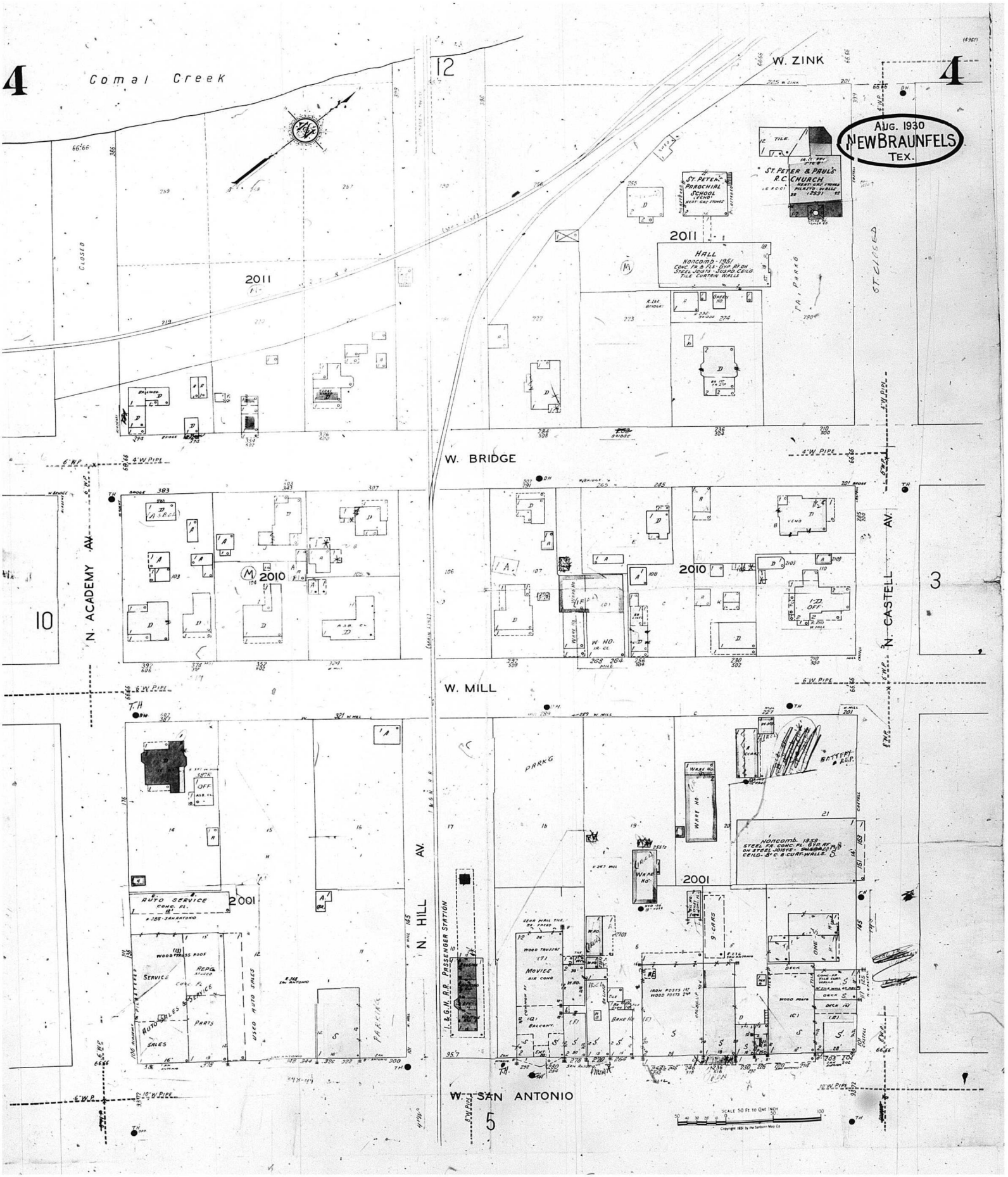
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Sheet 19
1969



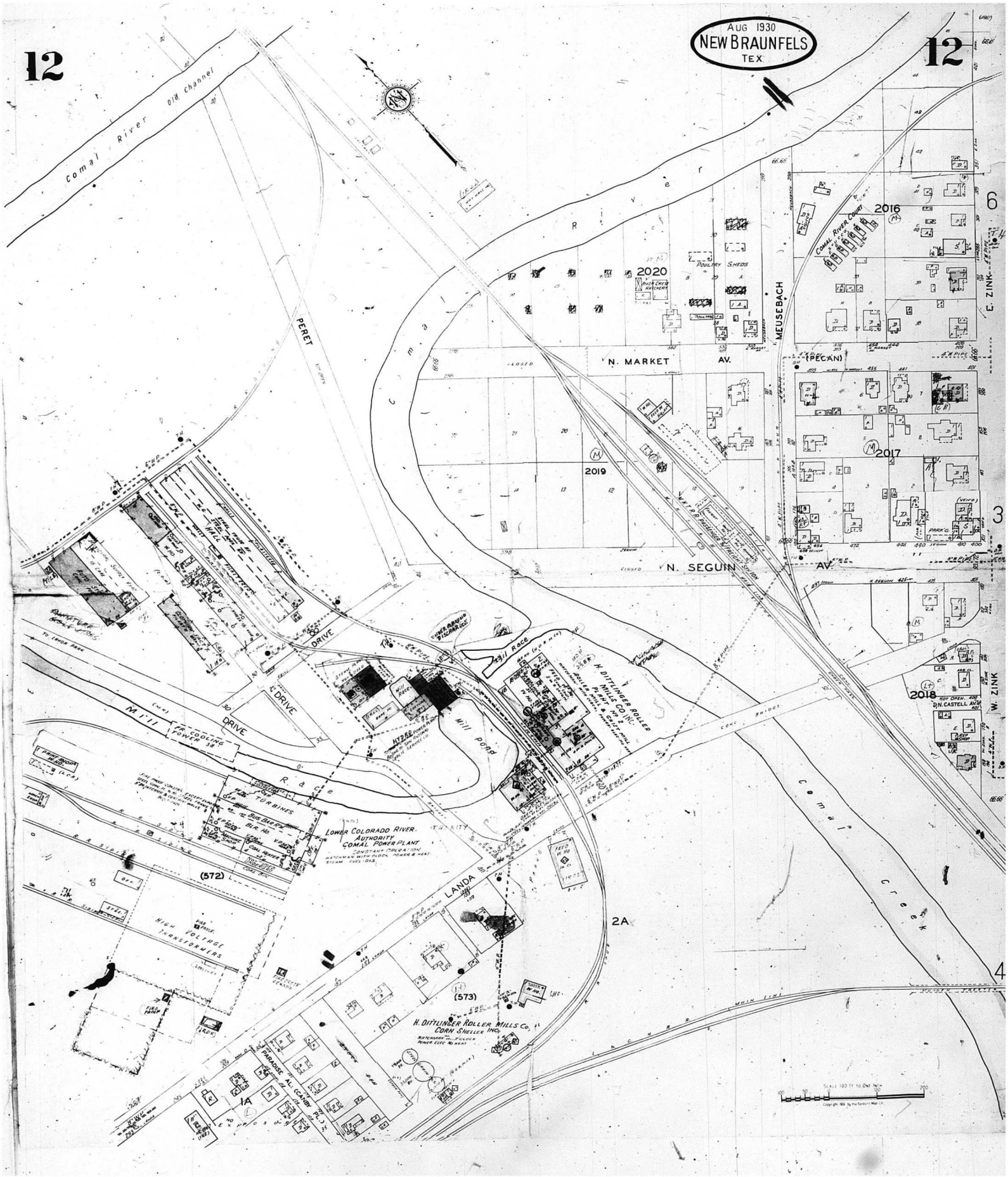
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1969



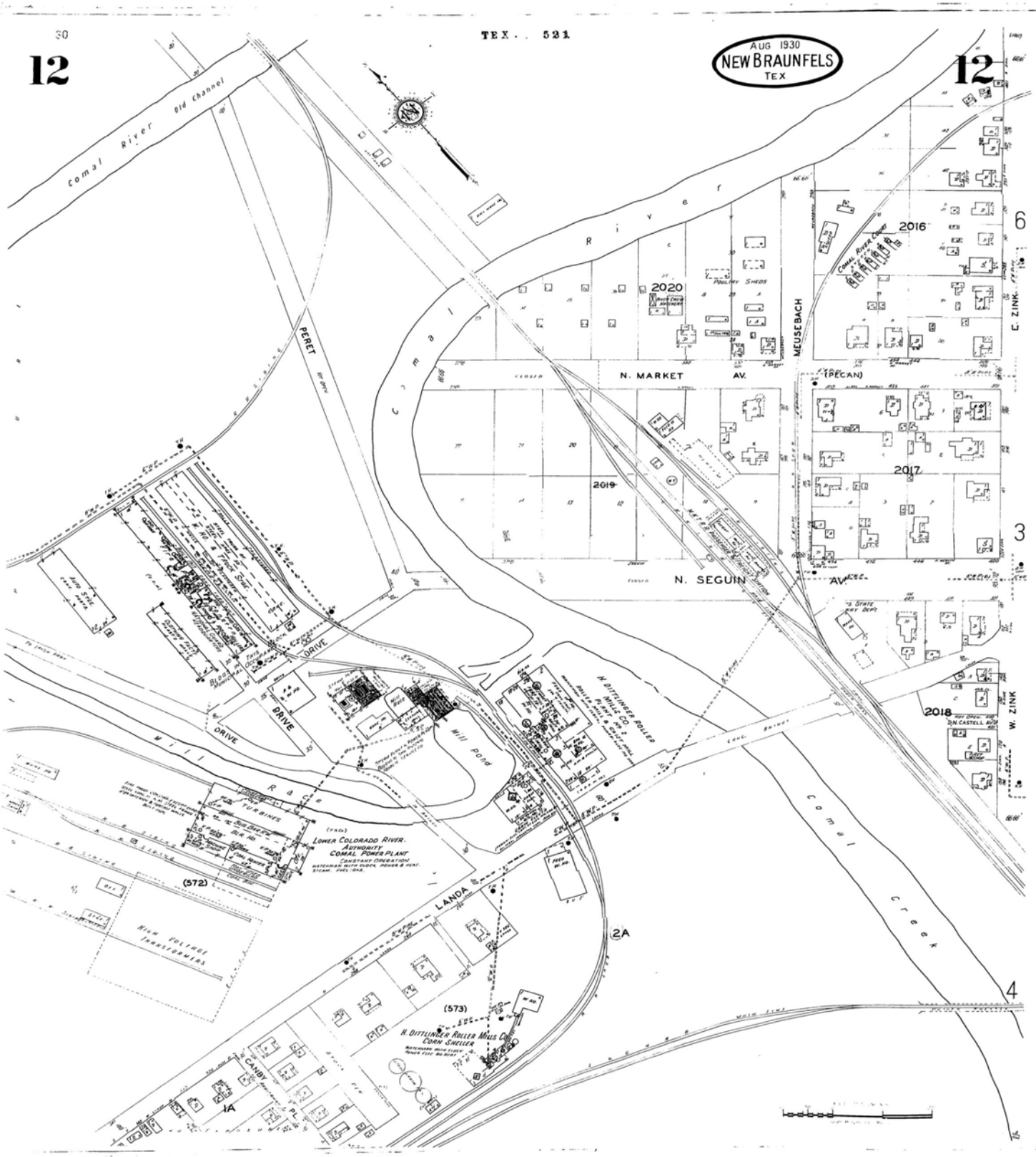
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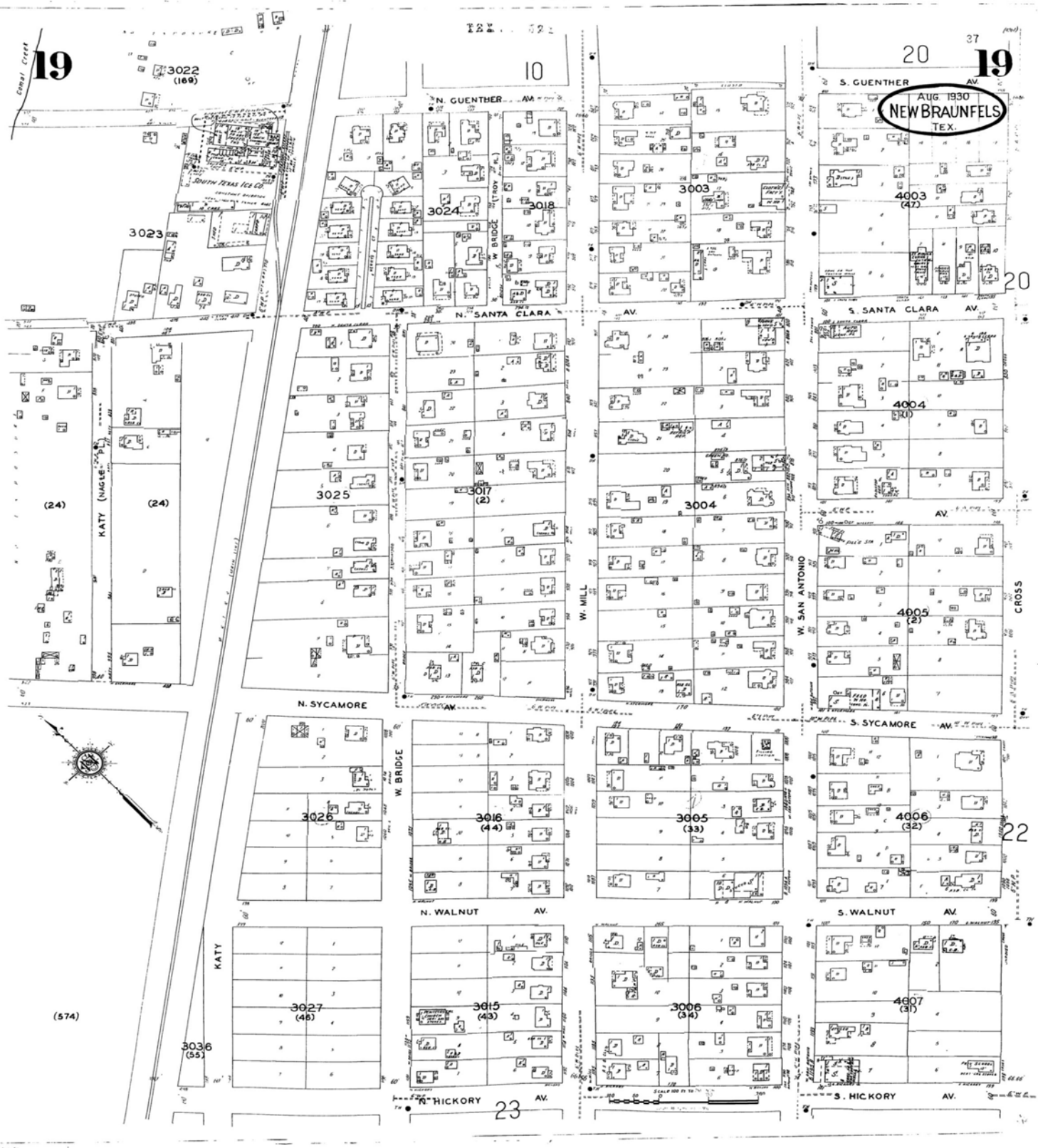
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Sheet 12
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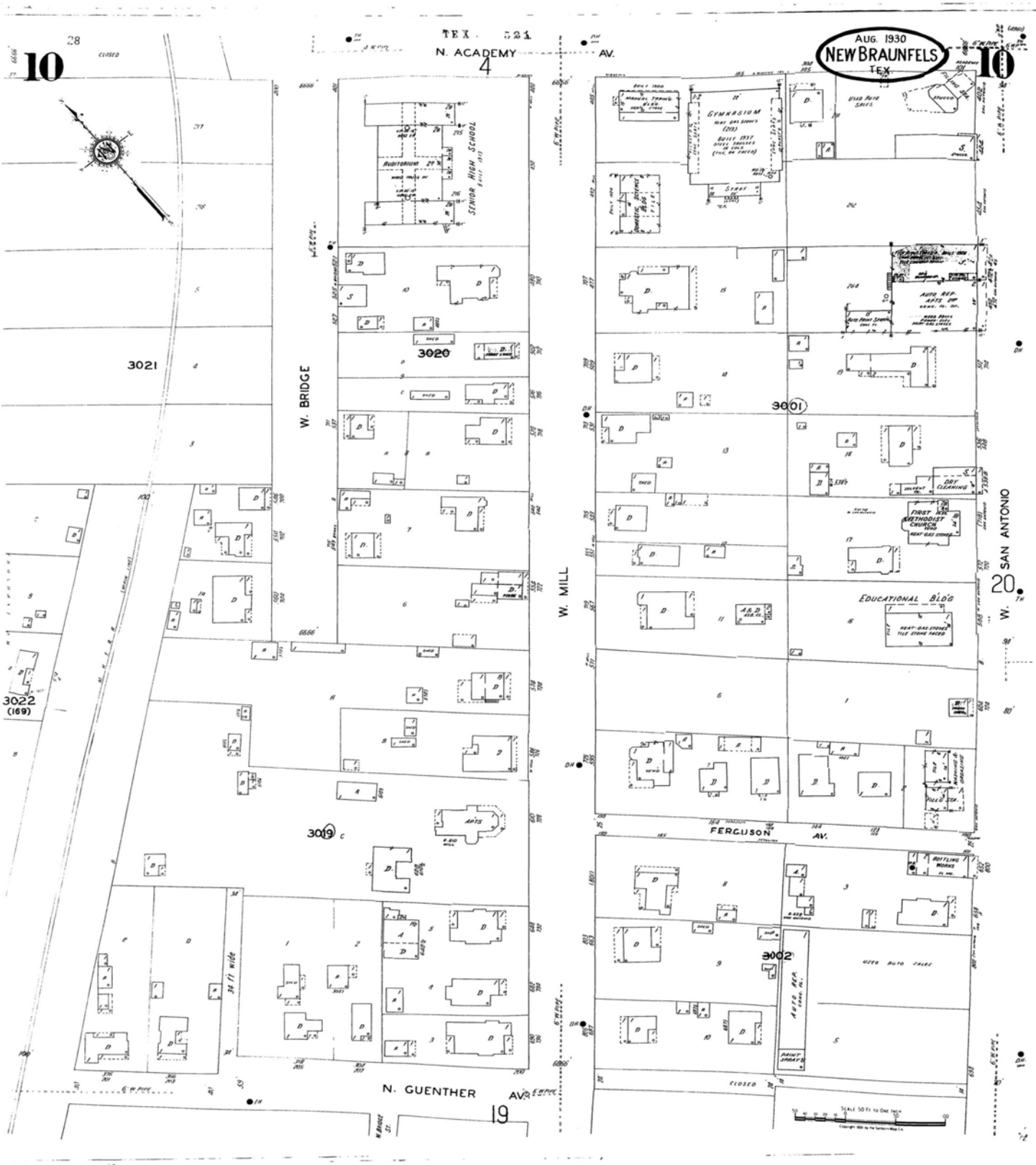
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Sheet 12
1949



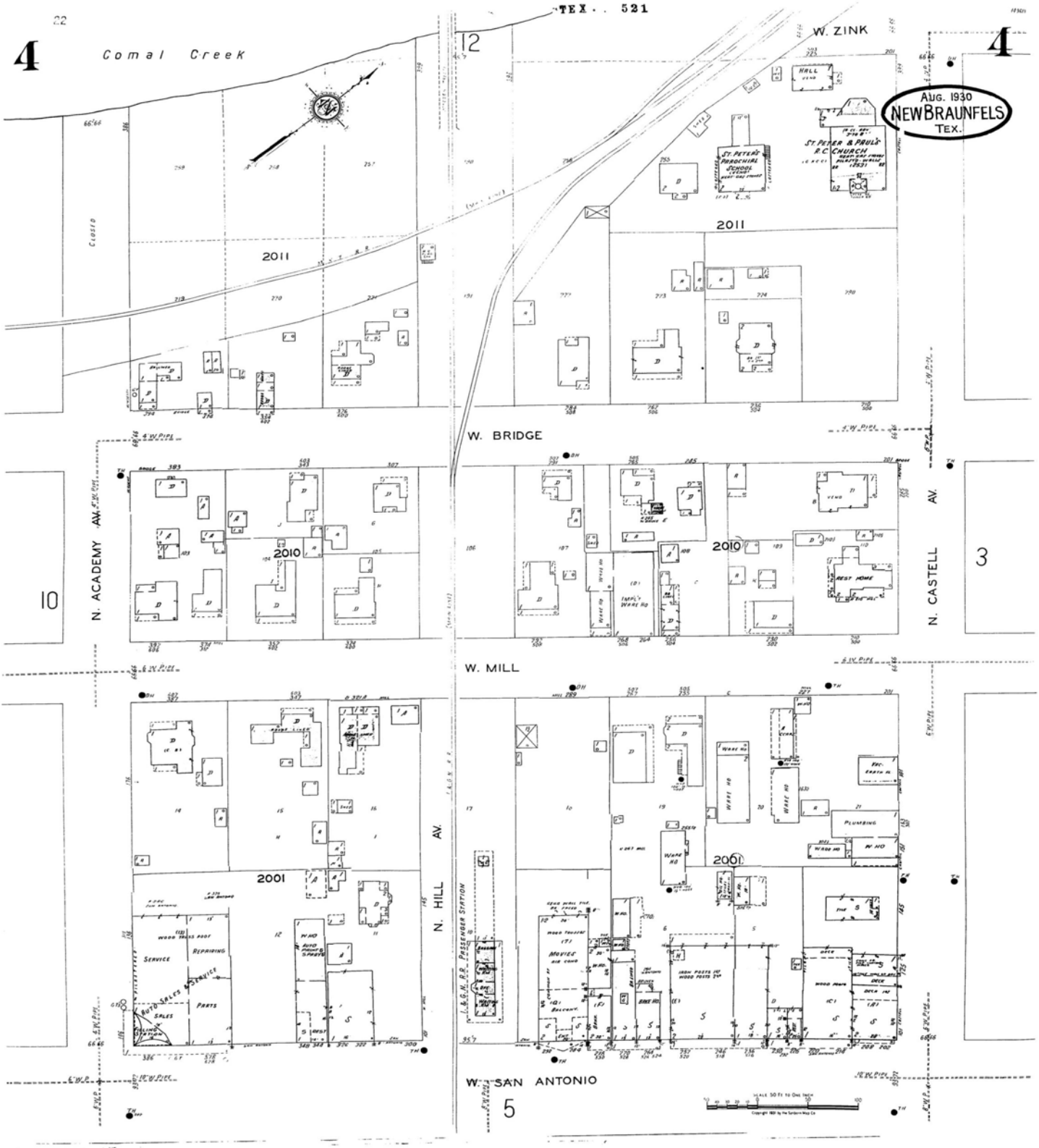
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Sheet 19
1949



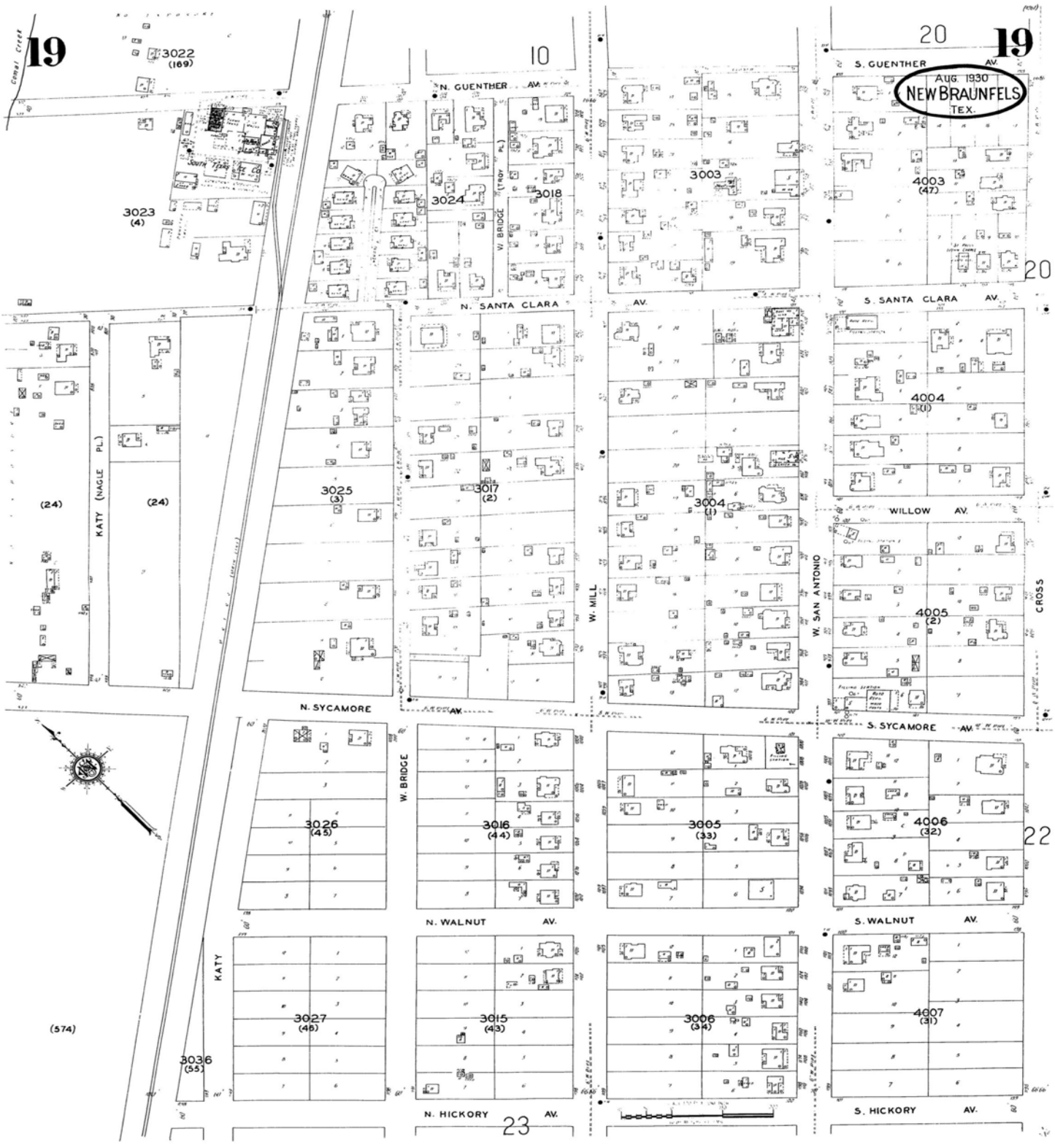
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1949



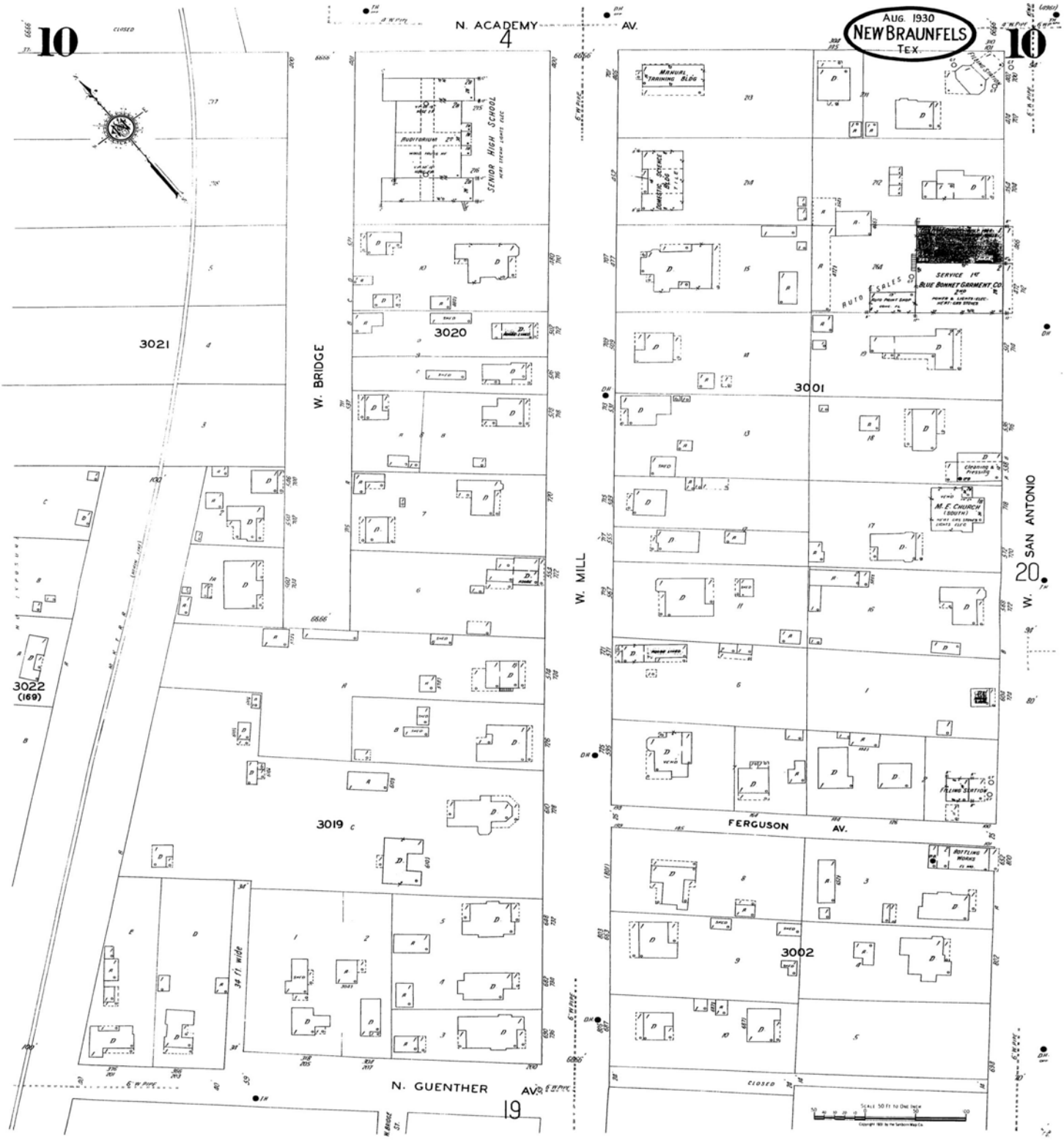
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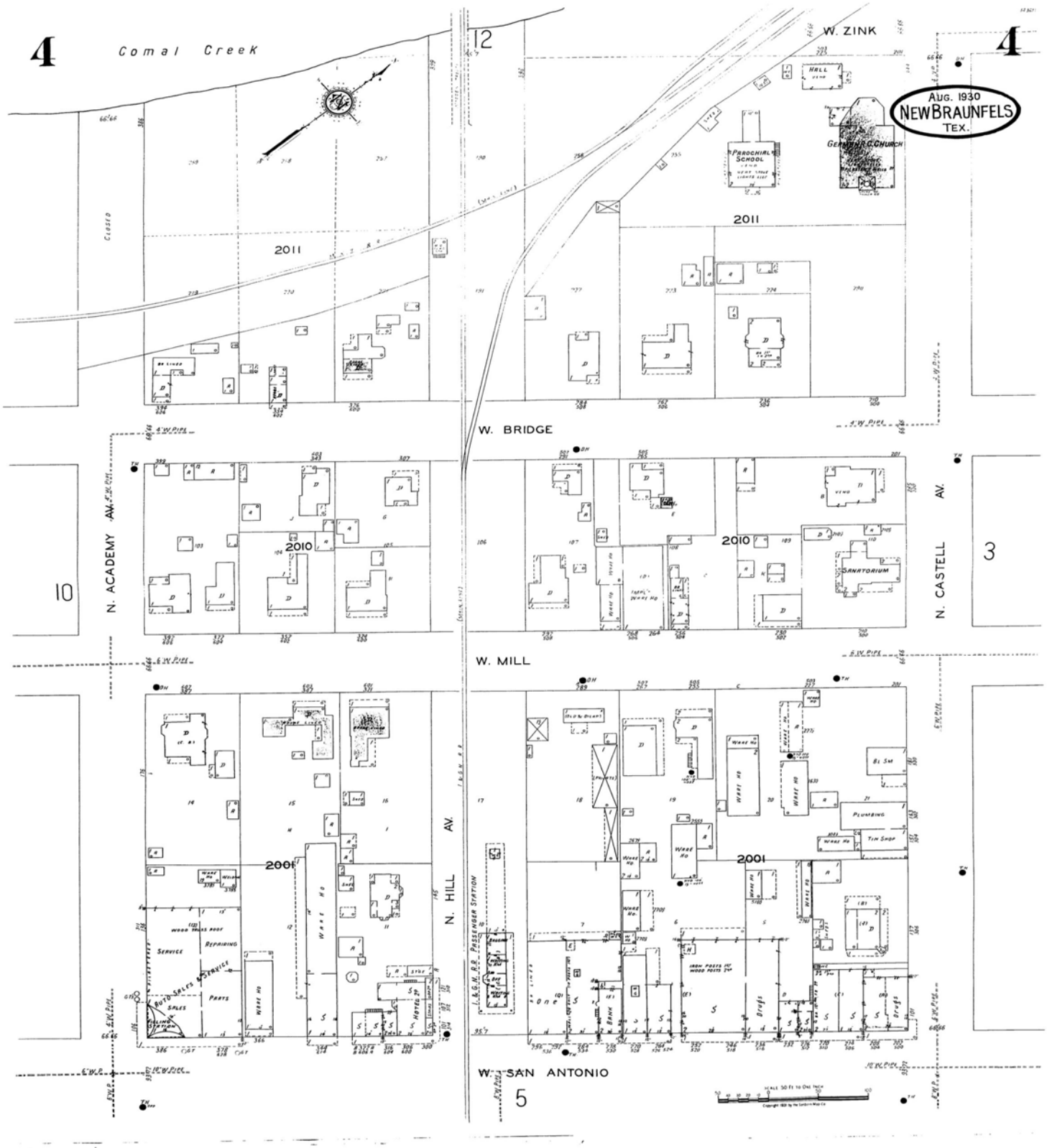
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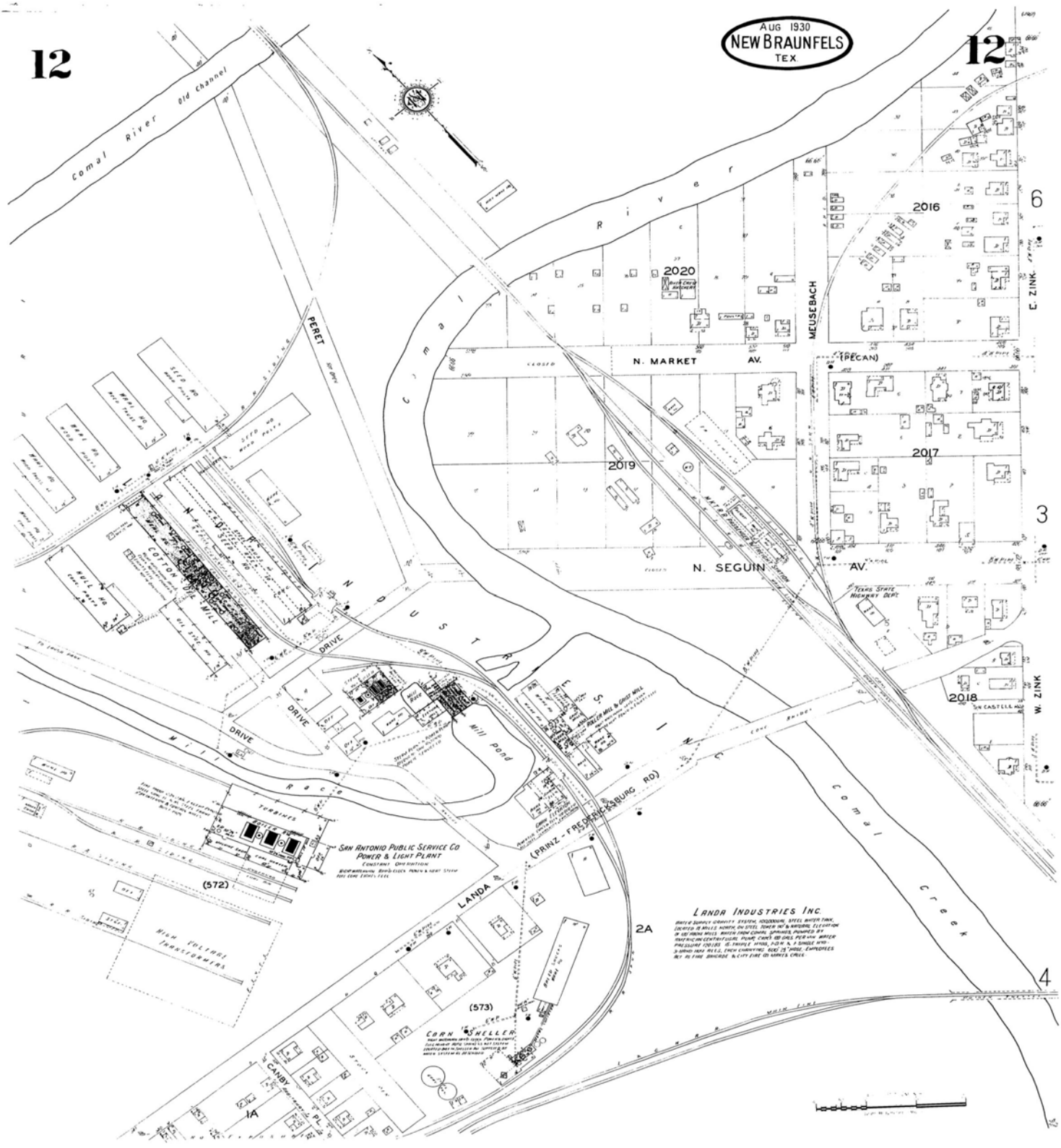
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Sheet 10
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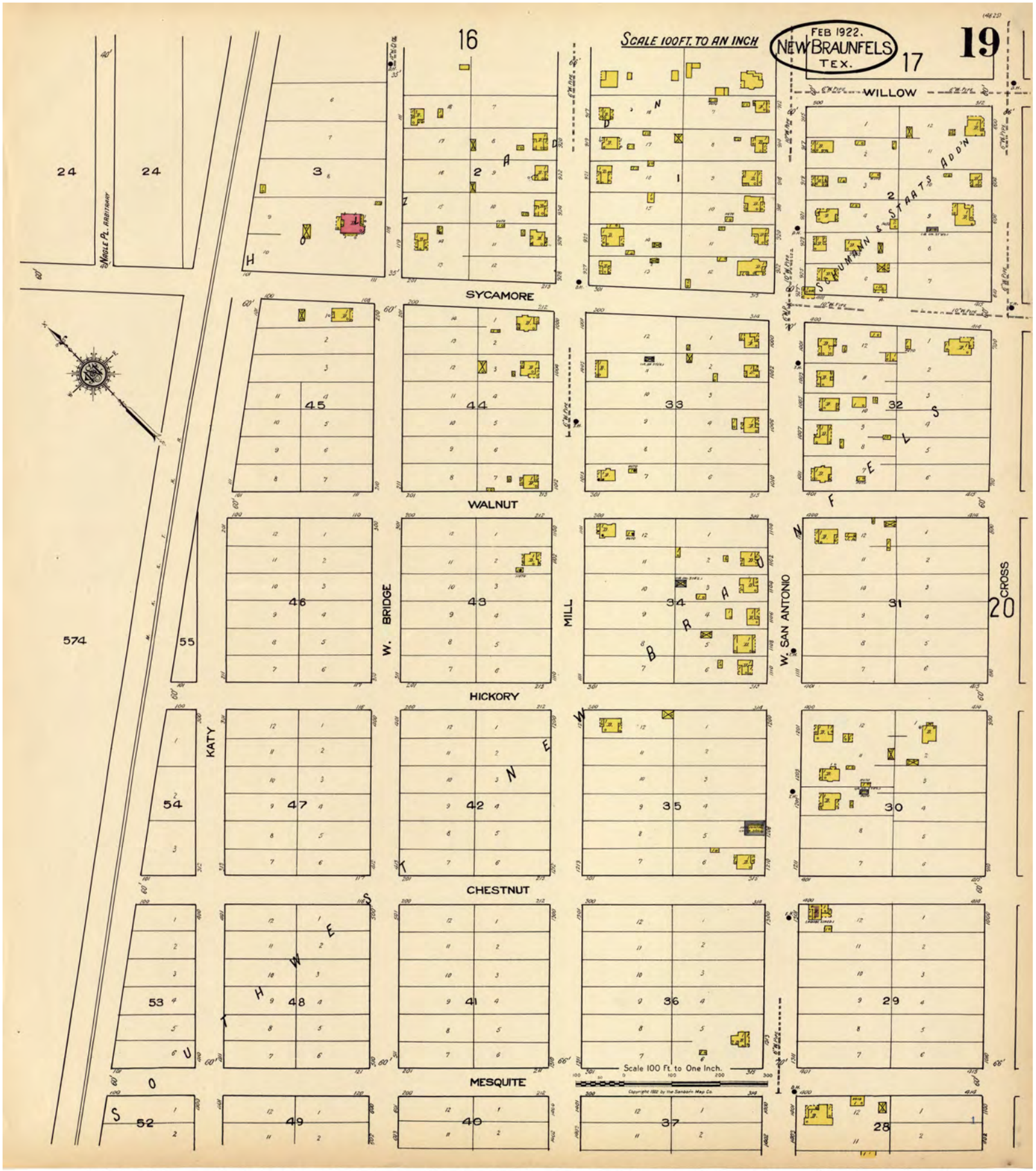
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1930



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1930



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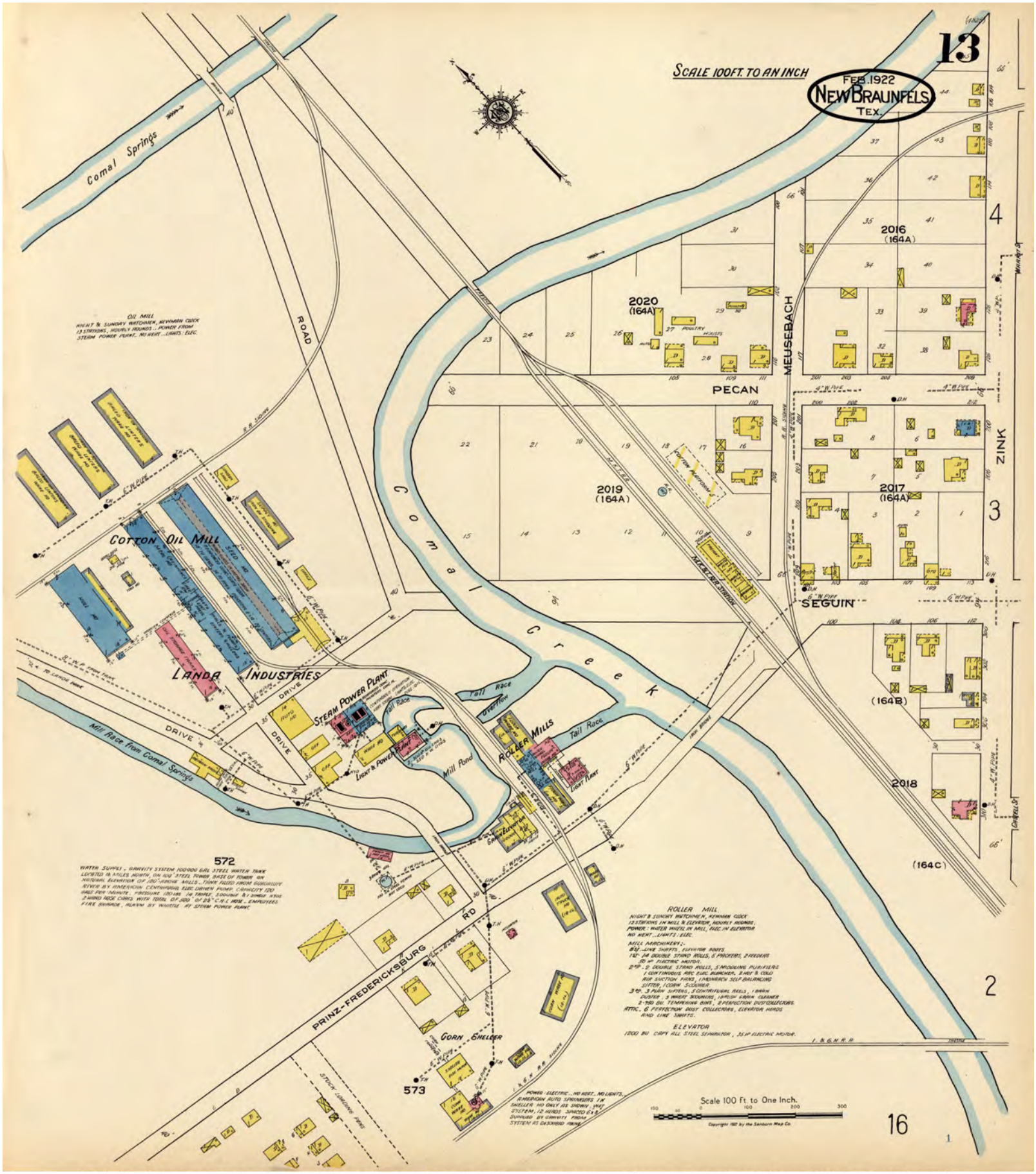
Sheet 19
1922



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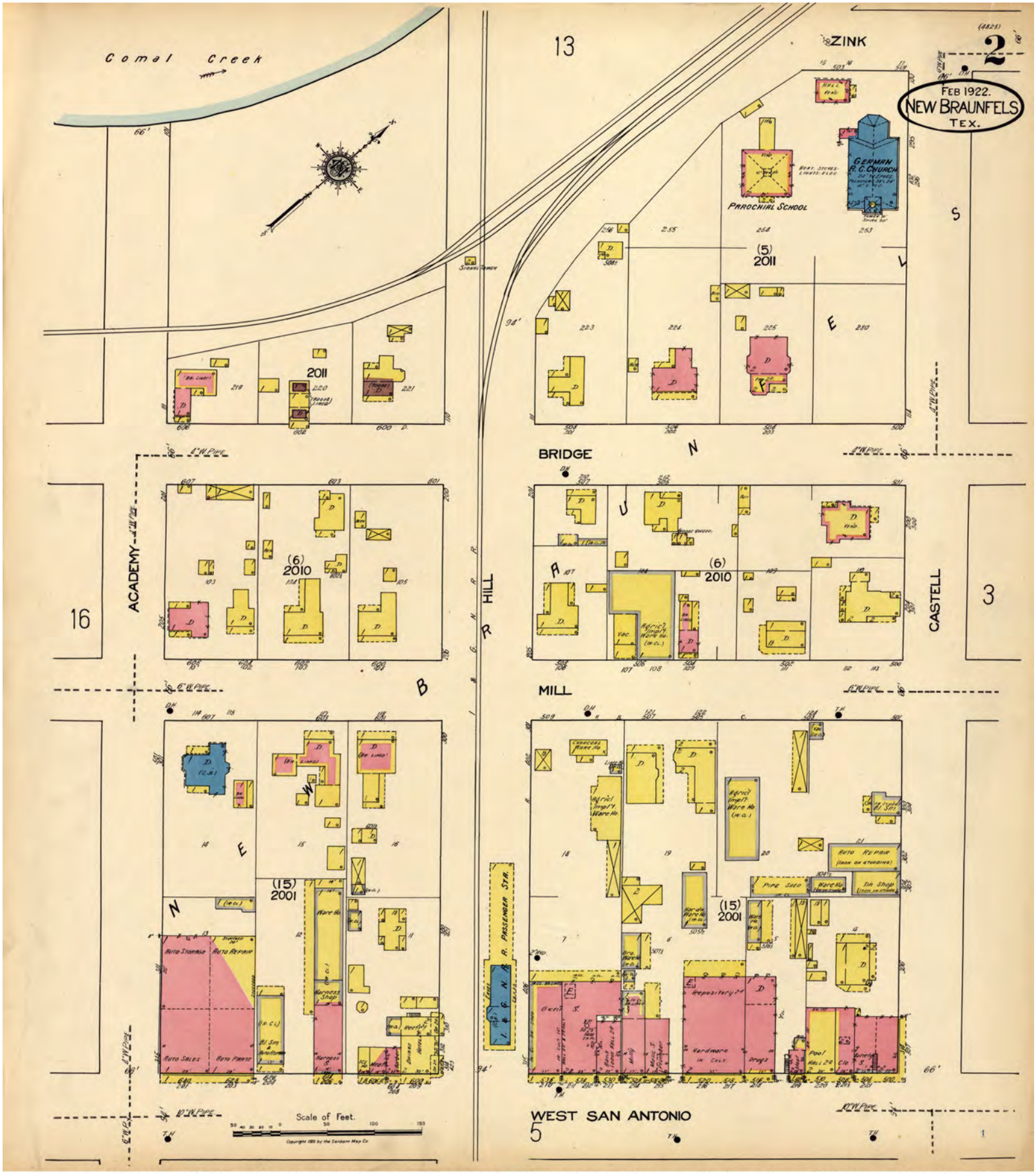
Sheet 16
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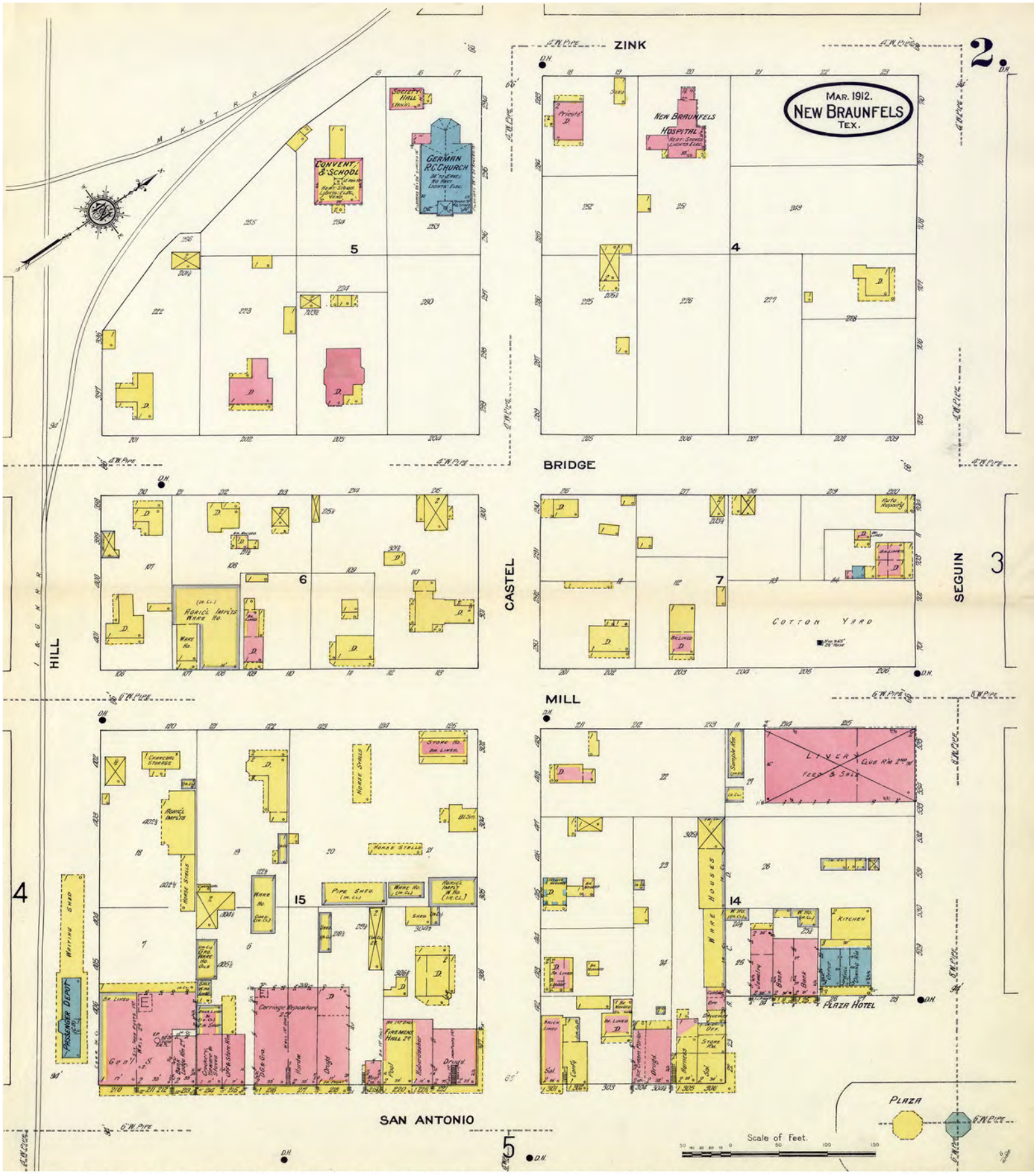
Sheet 2
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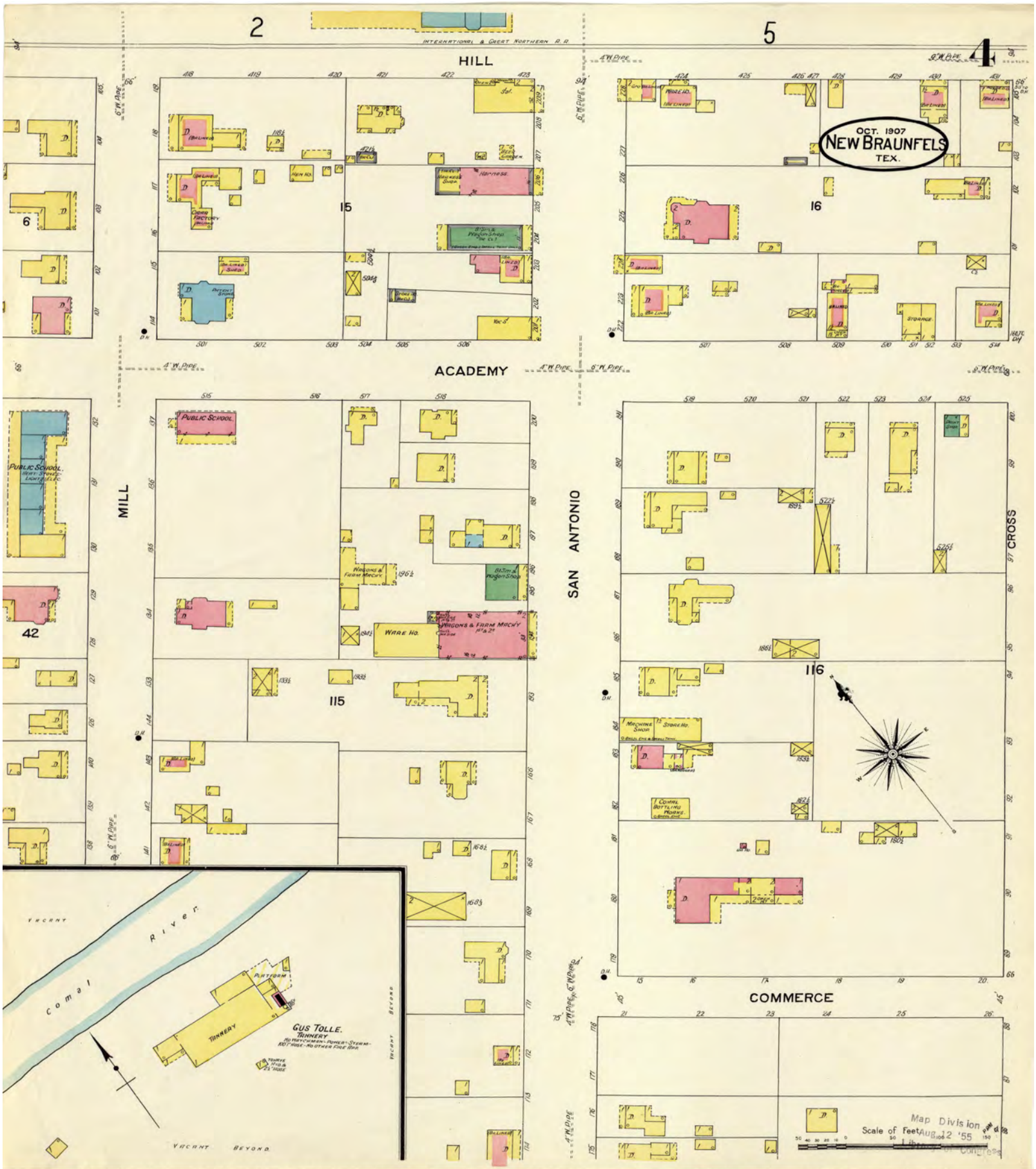
Sheet 4
1912



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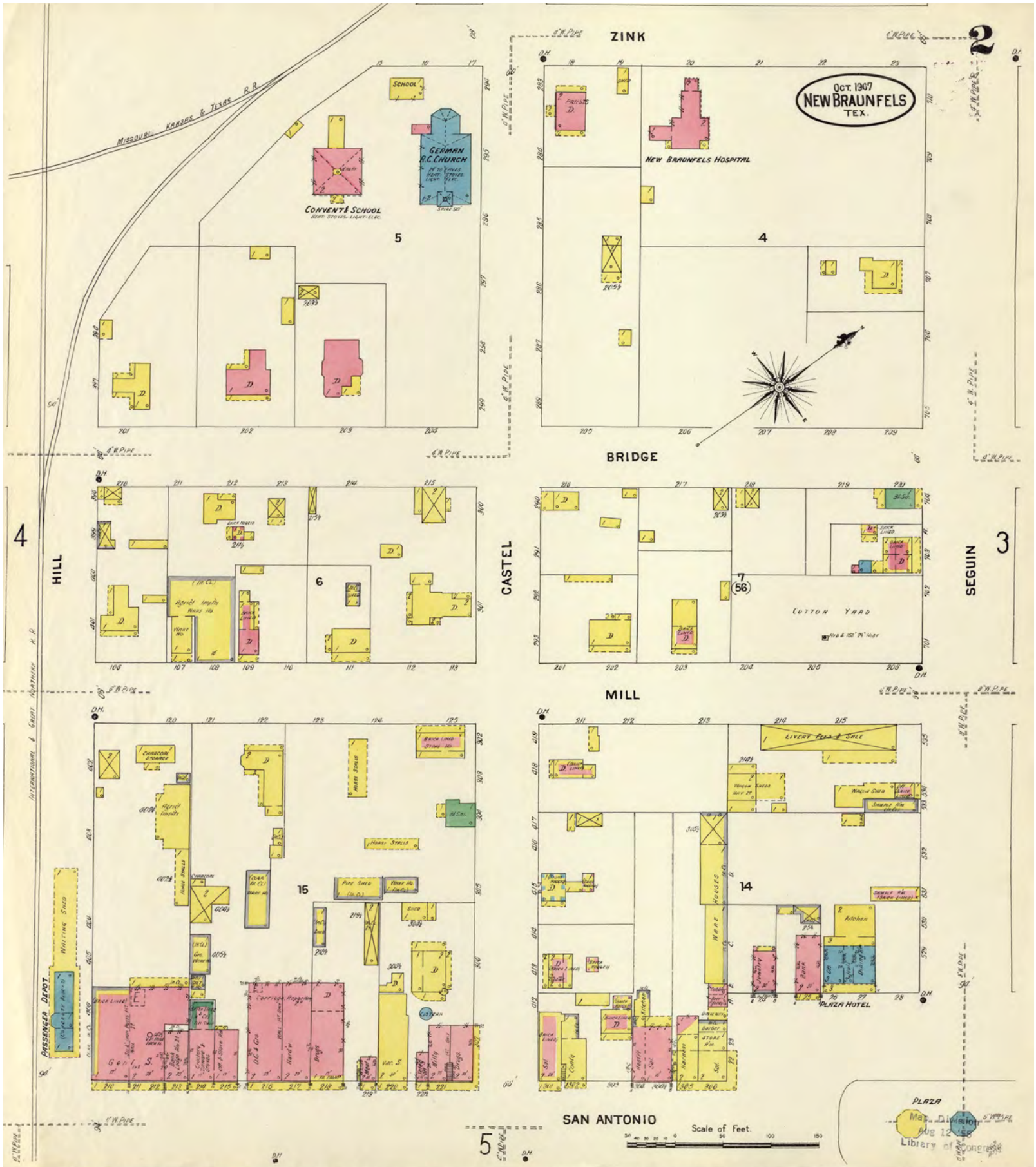
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1907



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Sheet 2
1907

ATTACHMENT H

HISTORICAL TOPOGRAPHIC MAPS

Historical Topographic Maps

NEW: *GeoLens by Geosearch*

Target Property:

Dry Comal Hike and Bike Trail

New Braunfels, Comal, Texas 78130

Prepared For:

Raba Kistner Environmental-San Antonio

Order #: 111976
Job #: 248571
Project #: ASF18-097-00
Date: 7/26/2018

Target Property Summary

Dry Comal Hike and Bike Trail

New Braunfels, Comal, Texas 78130

USGS Quadrangle: ***NEW BRAUNFELS WEST***
Target Property Geometry: ***Corridor***

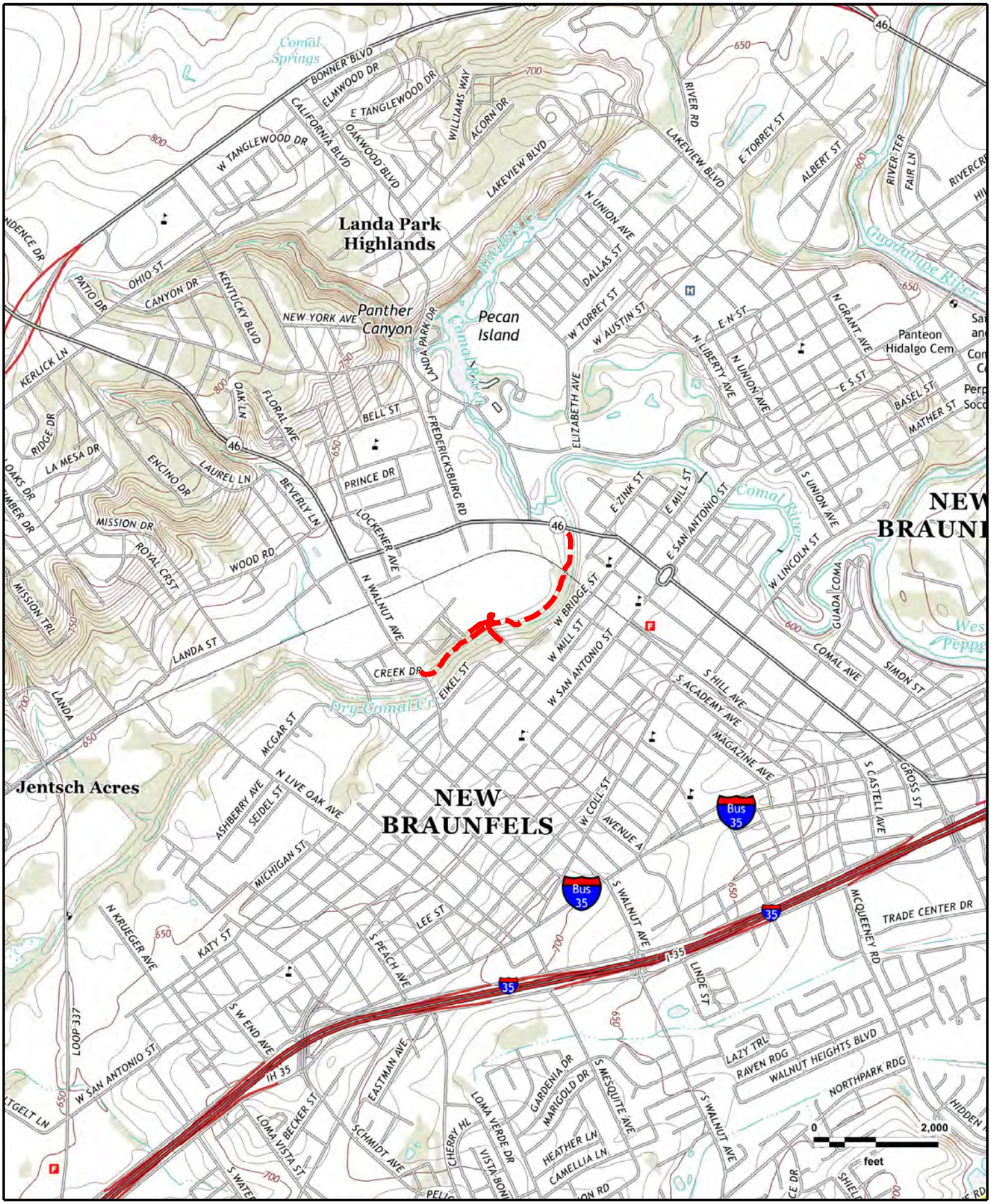
Target Property Longitude(s)/Latitude(s):

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Topographic Map Summary

Date	Quadrangle	Scale
2013	New Braunfels West, TX (2013)	1" = 2000'
	New Braunfels East, TX (2013)	
1988	New Braunfels West, TX	1" = 2000'
1958 PHOTOREVISED 1973	New Braunfels West, TX	1" = 2000'
1958	New Braunfels West, TX	1" = 2000'
1925	New Braunfels, TX	1" = 5208'
1916	New Braunfels, TX	1" = 5208'

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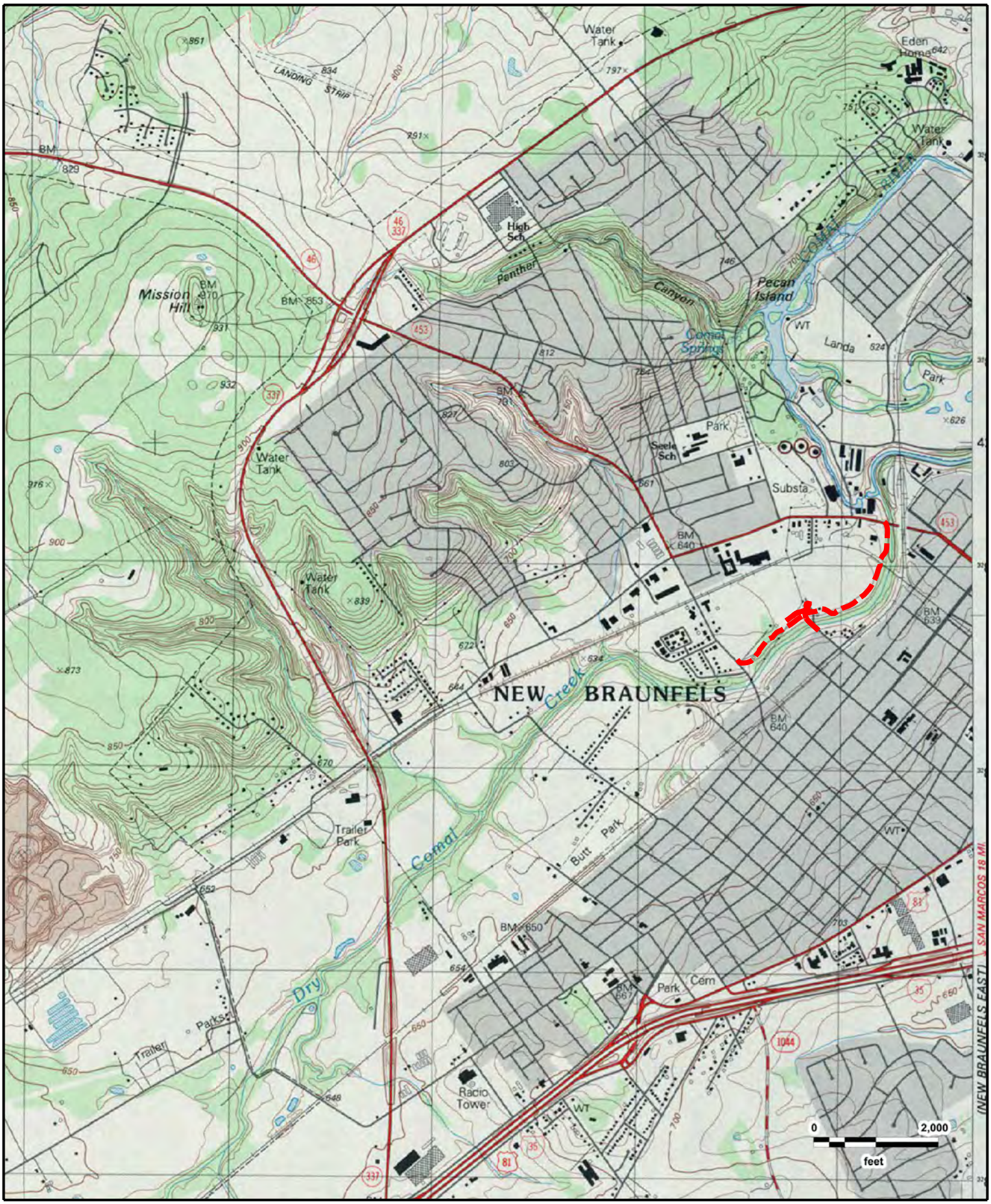


N
W E
S

Dry Comal Hike and Bike Trail
New Braunfels West, TX (2013), New Braunfels East, TX (2013)

GeoSearch

JOB #: 248571 - 07/26/2018

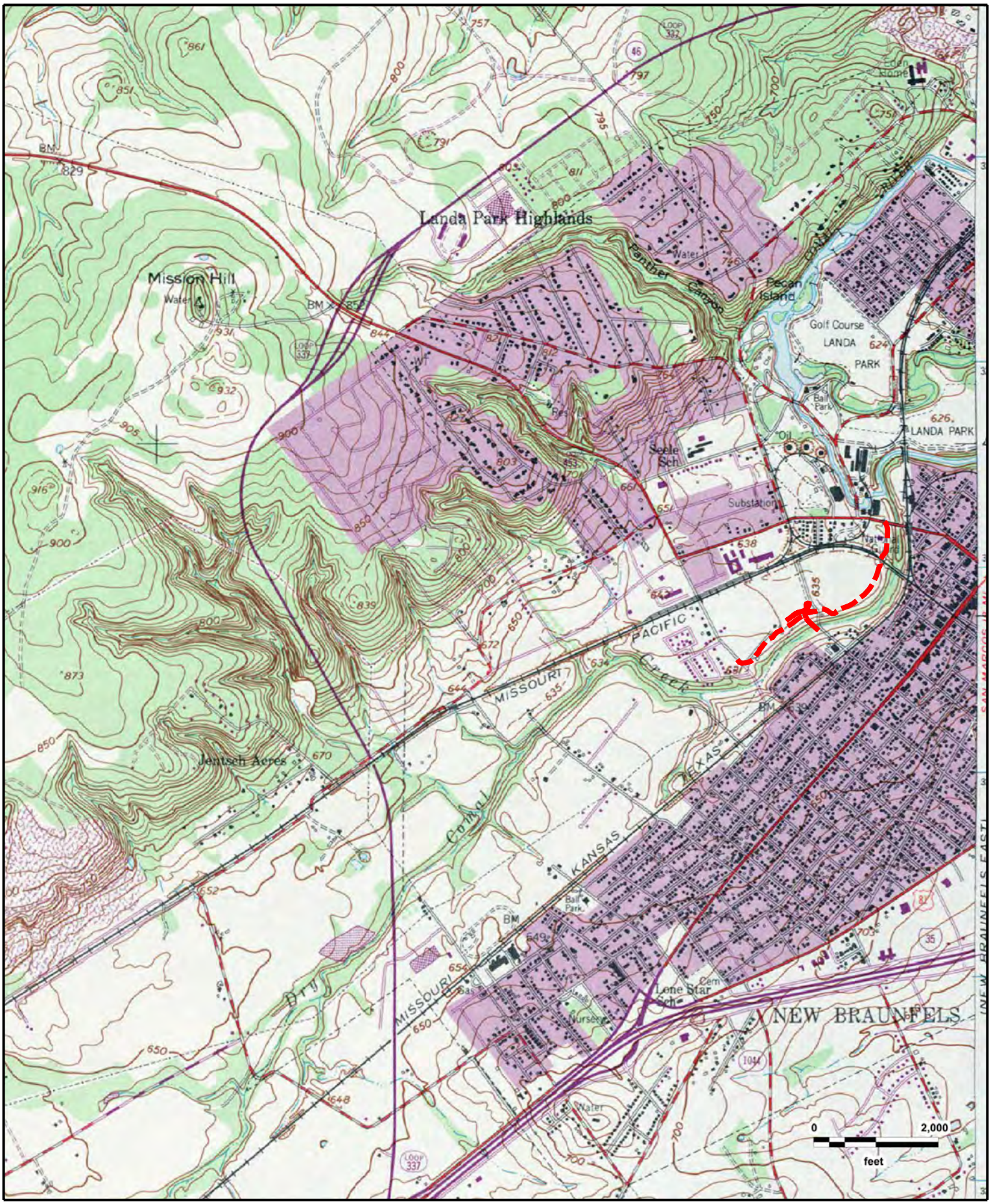


N
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Dry Comal Hike and Bike Trail
New Braunfels West, TX (1988)

GeoSearch

JOB #: 248571 - 07/26/2018

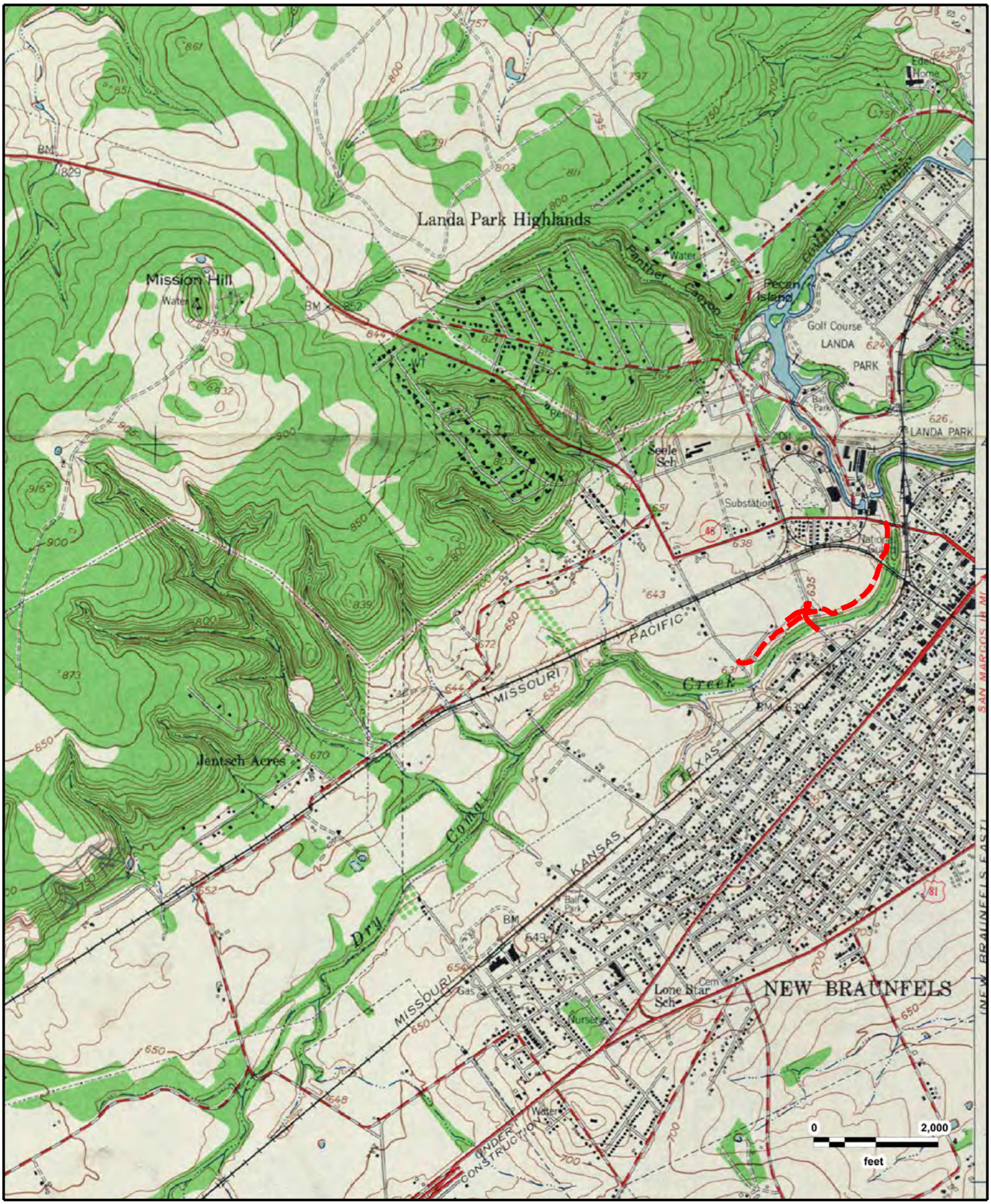


N
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Dry Comal Hike and Bike Trail
New Braunfels West, TX (1973)

GeoSearch

JOB #: 248571 - 07/26/2018

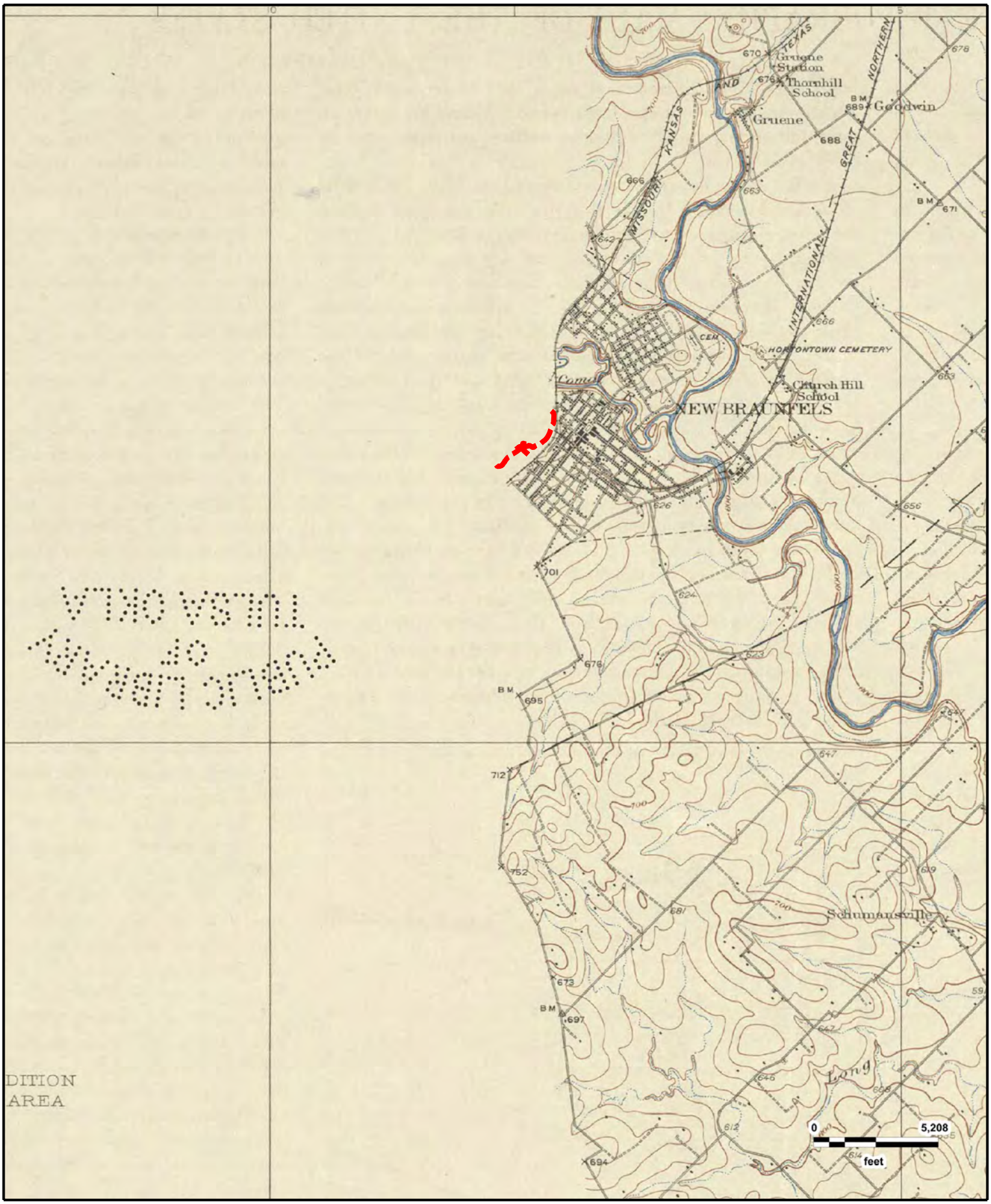


N
W E
S

Dry Comal Hike and Bike Trail
New Braunfels West, TX (1958)

GeoSearch

JOB #: 248571 - 07/26/2018

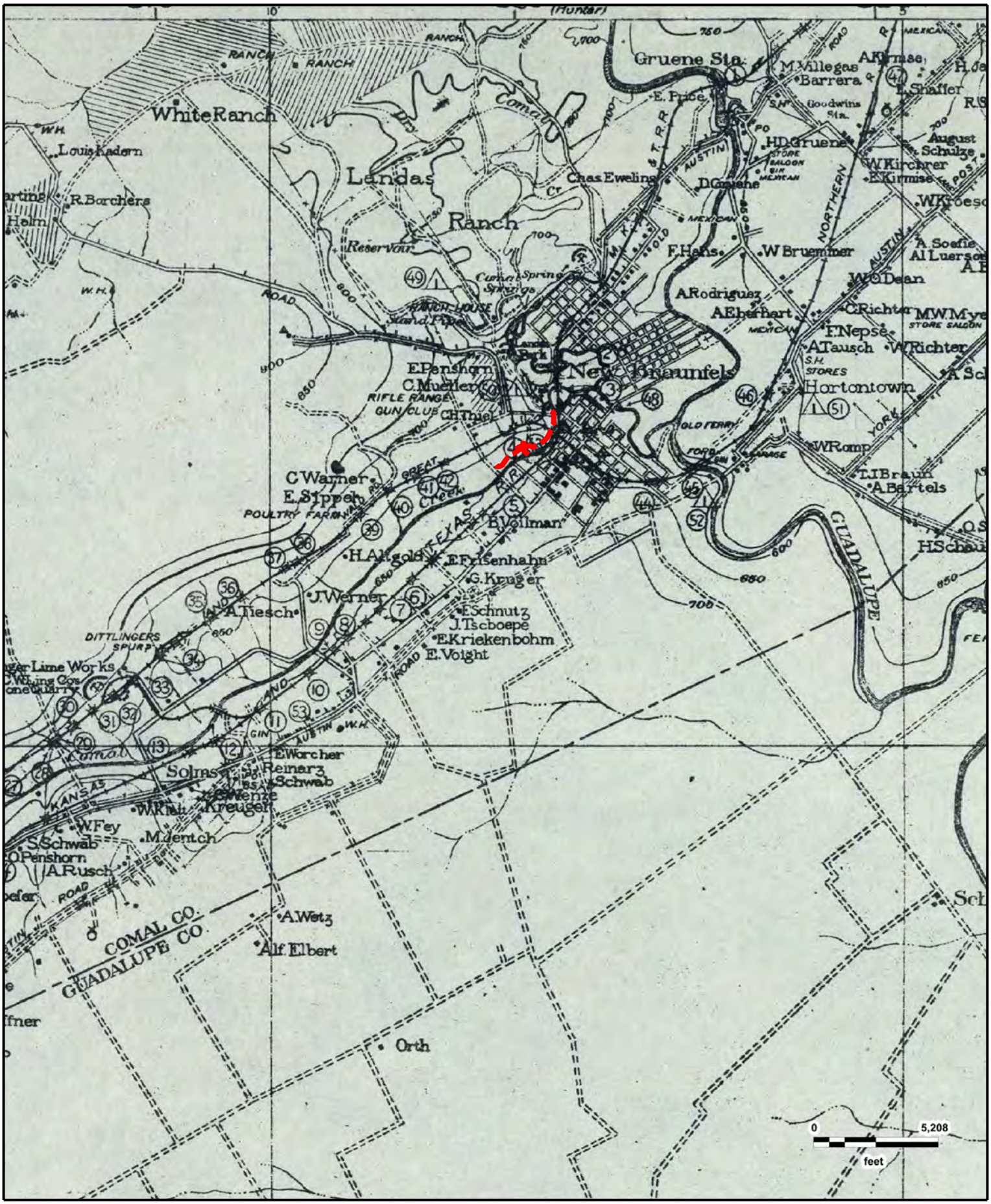


N
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Dry Comal Hike and Bike Trail
New Braunfels, TX (1925)

GeoSearch

JOB #: 248571 - 07/26/2018



N
W E
S

Dry Comal Hike and Bike Trail
New Braunfels, TX (1916)

GeoSearch

JOB #: 248571 - 07/26/2018

ATTACHMENT I

GEOSEARCH RADIUS REPORT

GeoSearch
On time. On target. In touch.™

Radius Report

NEW: *GeoLens by Geosearch*

Target Property:

Dry Comal Hike and Bike Trail
New Braunfels, Comal County, Texas 78130

Prepared For:

Raba Kistner Environmental-San Antonio

Order #: 111976
Job #: 248569
Project #: ASF18-097-00
Date: 07/25/2018

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Unlocatable Report . . . . . See Attachment

Zip Report . . . . . See Attachment

Disclaimer

This report was designed by GeoSearch to meet or exceed the records search requirements of the All Appropriate Inquiries Rule (40 CFR ï¿½312.26) and the current version of the ASTM International E1527, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process or, if applicable, the custom requirements requested by the entity that ordered this report. The records and databases of records used to compile this report were collected from various federal,state and local governmental entities. It is the goal of GeoSearch to meet or exceed the 40 CFR ï¿½312.26 and E1527 requirements for updating records by using the best available technology. GeoSearch contacts the appropriate governmental entities on a recurring basis. Depending on the frequency with which a record source or database of records is updated by the governmental entity, the data used to prepare this report may be updated monthly, quarterly, semi-annually, or annually.

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Target Property Summary

Target Property Information

Dry Comal Hike and Bike Trail
New Braunfels, Texas 78130

Coordinates
Corridor

USGS Quadrangle
New Braunfels West, TX

Geographic Coverage Information

County/Parish: Comal (TX)
ZipCode(s):
New Braunfels TX: 78130

Database Summary

FEDERAL LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
EMERGENCY RESPONSE NOTIFICATION SYSTEM	ERNSTX	1	0	TP/AP
FEDERAL ENGINEERING INSTITUTIONAL CONTROL SITES	EC	0	0	TP/AP
LAND USE CONTROL INFORMATION SYSTEM	LUCIS	0	0	TP/AP
RCRA SITES WITH CONTROLS	RCRASC	0	0	TP/AP
RESOURCE CONSERVATION & RECOVERY ACT - GENERATOR	RCRAGR06	0	0	0.1250
RESOURCE CONSERVATION & RECOVERY ACT - NON-GENERATOR	RCRANGR06	1	0	0.1250
FEMA OWNED STORAGE TANKS	FEMAUST	0	0	0.2500
BROWNFIELDS MANAGEMENT SYSTEM	BF	0	0	0.5000
DELISTED NATIONAL PRIORITIES LIST	DNPL	0	0	0.5000
NO LONGER REGULATED RCRA NON-CORRACTS TSD FACILITIES	NLRRCRAT	0	0	0.5000
RESOURCE CONSERVATION & RECOVERY ACT - NON-CORRACTS TREATMENT, STORAGE & DISPOSAL FACILITIES	RCRAT	0	0	0.5000
SUPERFUND ENTERPRISE MANAGEMENT SYSTEM	SEMS	0	0	0.5000
SUPERFUND ENTERPRISE MANAGEMENT SYSTEM ARCHIVED SITE INVENTORY	SEMSARCH	2	0	0.5000
NATIONAL PRIORITIES LIST	NPL	0	0	1.0000
NO LONGER REGULATED RCRA CORRECTIVE ACTION FACILITIES	NLRRCRAC	0	0	1.0000
PROPOSED NATIONAL PRIORITIES LIST	PNPL	0	0	1.0000
RESOURCE CONSERVATION & RECOVERY ACT - CORRECTIVE ACTION FACILITIES	RCRAC	0	0	1.0000
RESOURCE CONSERVATION & RECOVERY ACT - SUBJECT TO CORRECTIVE ACTION FACILITIES	RCRASUBC	0	0	1.0000

SUB-TOTAL		4	0	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
AEROMETRIC INFORMATION RETRIEVAL SYSTEM / AIR FACILITY SUBSYSTEM	AIRSAFS	0	0	TP/AP
BIENNIAL REPORTING SYSTEM	BRS	0	0	TP/AP
CERCLIS LIENS	SFLIENS	0	0	TP/AP
CLANDESTINE DRUG LABORATORY LOCATIONS	CDL	0	0	TP/AP
EPA DOCKET DATA	DOCKETS	0	0	TP/AP
ENFORCEMENT AND COMPLIANCE HISTORY INFORMATION	ECHOR06	0	0	TP/AP

Database Summary

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
FACILITY REGISTRY SYSTEM	FRSTX	3	0	TP/AP
HAZARDOUS MATERIALS INCIDENT REPORTING SYSTEM	HMIRSR06	0	0	TP/AP
INTEGRATED COMPLIANCE INFORMATION SYSTEM (FORMERLY DOCKETS)	ICIS	0	0	TP/AP
INTEGRATED COMPLIANCE INFORMATION SYSTEM NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	ICISNPDES	0	0	TP/AP
MATERIAL LICENSING TRACKING SYSTEM	MLTS	0	0	TP/AP
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	NPDESR06	0	0	TP/AP
PCB ACTIVITY DATABASE SYSTEM	PADS	0	0	TP/AP
PERMIT COMPLIANCE SYSTEM	PCSR06	0	0	TP/AP
SEMS LIEN ON PROPERTY	SEMSLIENS	0	0	TP/AP
SECTION SEVEN TRACKING SYSTEM	SSTS	0	0	TP/AP
TOXIC SUBSTANCE CONTROL ACT INVENTORY	TSCA	0	0	TP/AP
TOXICS RELEASE INVENTORY	TRI	0	0	TP/AP
ALTERNATIVE FUELING STATIONS	ALTFUELS	0	0	0.2500
HISTORICAL GAS STATIONS	HISTPST	0	0	0.2500
INTEGRATED COMPLIANCE INFORMATION SYSTEM DRYCLEANERS	ICISCLEANERS	0	0	0.2500
MINE SAFETY AND HEALTH ADMINISTRATION MASTER INDEX FILE	MSHA	0	0	0.2500
MINERAL RESOURCE DATA SYSTEM	MRDS	0	0	0.2500
OPEN DUMP INVENTORY	ODI	0	0	0.5000
SURFACE MINING CONTROL AND RECLAMATION ACT SITES	SMCRA	0	0	0.5000
URANIUM MILL TAILINGS RADIATION CONTROL ACT SITES	USUMTRCA	0	0	0.5000
DEPARTMENT OF DEFENSE SITES	DOD	0	0	1.0000
FORMER MILITARY NIKE MISSILE SITES	NMS	0	0	1.0000
FORMERLY USED DEFENSE SITES	FUDS	0	0	1.0000
FORMERLY UTILIZED SITES REMEDIAL ACTION PROGRAM	FUSRAP	0	0	1.0000
RECORD OF DECISION SYSTEM	RODS	0	0	1.0000
SUB-TOTAL		3	0	

Database Summary

STATE (TX) LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
STATE INSTITUTIONAL/ENGINEERING CONTROL SITES	SIEC01	0	0	TP/AP
DRY CLEANER REGISTRATION DATABASE	DCR	3	0	0.2500
PETROLEUM STORAGE TANKS	PST	10	0	0.2500
BROWNFIELDS SITE ASSESSMENTS	BSA	0	0	0.5000
CLOSED & ABANDONED LANDFILL INVENTORY	CALF	1	0	0.5000
LEAKING PETROLEUM STORAGE TANKS	LPST	19	0	0.5000
MUNICIPAL SOLID WASTE LANDFILL SITES	MSWLF	0	0	0.5000
RADIOACTIVE WASTE SITES	RWS	0	0	0.5000
RAILROAD COMMISSION VCP AND BROWNFIELD SITES	RRCVCP	0	0	0.5000
VOLUNTARY CLEANUP PROGRAM SITES	VCP	1	0	0.5000
INDUSTRIAL AND HAZARDOUS WASTE CORRECTIVE ACTION SITES	IHWCA	5	0	1.0000
STATE SUPERFUND SITES	SF	0	0	1.0000

SUB-TOTAL		39	0	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
GROUNDWATER CONTAMINATION CASES	GWCC	0	0	TP/AP
HISTORIC GROUNDWATER CONTAMINATION CASES	HISTGWCC	0	0	TP/AP
LAND APPLICATION PERMITS	LANDAPP	0	0	TP/AP
MUNICIPAL SETTING DESIGNATIONS	MSD	0	0	TP/AP
NOTICE OF VIOLATIONS	NOV	0	0	TP/AP
SPILLS LISTING	SPILLS	0	0	TP/AP
TCEQ LIENS	LIENS	0	0	TP/AP
TIER I I CHEMICAL REPORTING PROGRAM FACILITIES	TIERII	1	0	TP/AP
INDUSTRIAL AND HAZARDOUS WASTE SITES	IHW	7	0	0.2500
PERMITTED INDUSTRIAL HAZARDOUS WASTE SITES	PIHW	0	0	0.2500
AFFECTED PROPERTY ASSESSMENT REPORTS	APAR	1	0	0.5000
DRY CLEANER REMEDIATION PROGRAM SITES	DCRPS	0	0	0.5000
INNOCENT OWNER / OPERATOR DATABASE	IOP	1	0	0.5000
RECYCLING FACILITIES	WMRF	0	0	0.5000
SALT CAVERNS FOR PETROLEUM STORAGE	STCV	0	0	0.5000

SUB-TOTAL		*10*	*0*	

Database Summary

LOCAL LISTING

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
EDWARDS AQUIFER PERMITS	EAP	0	0	TP/AP
SUB-TOTAL		0	0	

TRIBAL LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
UNDERGROUND STORAGE TANKS ON TRIBAL LANDS	USTR06	0	0	0.2500
LEAKING UNDERGROUND STORAGE TANKS ON TRIBAL LANDS	LUSTR06	0	0	0.5000
OPEN DUMP INVENTORY ON TRIBAL LANDS	ODINDIAN	0	0	0.5000
SUB-TOTAL		0	0	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
INDIAN RESERVATIONS	INDIANRES	0	0	1.0000
SUB-TOTAL		0	0	
TOTAL		56	0	

Database Radius Summary

FEDERAL LISTING

*Standard environmental records are displayed in **bold**.*

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
AIRSAFS	0.0200	0	NS	NS	NS	NS	NS	0
BRS	0.0200	0	NS	NS	NS	NS	NS	0
CDL	0.0200	0	NS	NS	NS	NS	NS	0
DOCKETS	0.0200	0	NS	NS	NS	NS	NS	0
EC	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
ECHOR06	0.0200	0	NS	NS	NS	NS	NS	0
ERNSTX	**0.0200**	**1**	**NS**	**NS**	**NS**	**NS**	**NS**	**1**
FRSTX	0.0200	3	NS	NS	NS	NS	NS	3
HMIRSR06	0.0200	0	NS	NS	NS	NS	NS	0
ICIS	0.0200	0	NS	NS	NS	NS	NS	0
ICISNPDES	0.0200	0	NS	NS	NS	NS	NS	0
LUCIS	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
MLTS	0.0200	0	NS	NS	NS	NS	NS	0
NPDESR06	0.0200	0	NS	NS	NS	NS	NS	0
PADS	0.0200	0	NS	NS	NS	NS	NS	0
PCSR06	0.0200	0	NS	NS	NS	NS	NS	0
RCRASC	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
SEMSLIENS	0.0200	0	NS	NS	NS	NS	NS	0
SFLIENS	0.0200	0	NS	NS	NS	NS	NS	0
SSTS	0.0200	0	NS	NS	NS	NS	NS	0
TRI	0.0200	0	NS	NS	NS	NS	NS	0
TSCA	0.0200	0	NS	NS	NS	NS	NS	0
RCRAGR06	**0.1250**	**0**	**0**	**NS**	**NS**	**NS**	**NS**	**0**
RCRANGR06	**0.1250**	**0**	**1**	**NS**	**NS**	**NS**	**NS**	**1**
ALTFUELS	0.2500	0	0	0	NS	NS	NS	0
FEMAUST	**0.2500**	**0**	**0**	**0**	**NS**	**NS**	**NS**	**0**
HISTPST	0.2500	0	0	0	NS	NS	NS	0
ICISCLEANERS	0.2500	0	0	0	NS	NS	NS	0
MRDS	0.2500	0	0	0	NS	NS	NS	0
MSHA	0.2500	0	0	0	NS	NS	NS	0
BF	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
DNPL	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
NLRRCRAT	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
ODI	0.5000	0	0	0	0	NS	NS	0
RCRAT	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**

Database Radius Summary

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
SEMS	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
SEMSARCH	**0.5000**	**0**	**0**	**1**	**1**	**NS**	**NS**	**2**
SMCRA	0.5000	0	0	0	0	NS	NS	0
USUMTRCA	0.5000	0	0	0	0	NS	NS	0
DOD	1.0000	0	0	0	0	0	NS	0
FUDS	1.0000	0	0	0	0	0	NS	0
FUSRAP	1.0000	0	0	0	0	0	NS	0
NLRRCRAC	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
NMS	1.0000	0	0	0	0	0	NS	0
NPL	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
PNPL	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
RCRAC	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
RCRASUBC	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
RODS	1.0000	0	0	0	0	0	NS	0
SUB-TOTAL		4	1	1	1	0	0	7

Database Radius Summary

STATE (TX) LISTING

*Standard environmental records are displayed in **bold**.*

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
GWCC	0.0200	0	NS	NS	NS	NS	NS	0
HISTGWCC	0.0200	0	NS	NS	NS	NS	NS	0
LANDAPP	0.0200	0	NS	NS	NS	NS	NS	0
LIENS	0.0200	0	NS	NS	NS	NS	NS	0
MSD	0.0200	0	NS	NS	NS	NS	NS	0
NOV	0.0200	0	NS	NS	NS	NS	NS	0
SIEC01	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
SPILLS	0.0200	0	NS	NS	NS	NS	NS	0
TIERII	0.0200	1	NS	NS	NS	NS	NS	1
DCR	**0.2500**	**1**	**0**	**2**	**NS**	**NS**	**NS**	**3**
IHW	0.2500	0	1	6	NS	NS	NS	7
PIHW	0.2500	0	0	0	NS	NS	NS	0
PST	**0.2500**	**1**	**2**	**7**	**NS**	**NS**	**NS**	**10**
APAR	0.5000	0	0	0	1	NS	NS	1
BSA	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
CALF	**0.5000**	**0**	**0**	**0**	**1**	**NS**	**NS**	**1**
DCRPS	0.5000	0	0	0	0	NS	NS	0
IOP	0.5000	0	0	1	0	NS	NS	1
LPST	**0.5000**	**1**	**1**	**4**	**13**	**NS**	**NS**	**19**
MSWLF	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
RRCVCP	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
RWS	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
STCV	0.5000	0	0	0	0	NS	NS	0
VCP	**0.5000**	**0**	**0**	**0**	**1**	**NS**	**NS**	**1**
WMRF	0.5000	0	0	0	0	NS	NS	0
IHWCA	**1.0000**	**0**	**0**	**2**	**2**	**1**	**NS**	**5**
SF	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**

SUB-TOTAL		4	4	22	18	1	0	49

Database Radius Summary

LOCAL LISTING

*Standard environmental records are displayed in **bold**.*

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
EAP	0.0200	0	NS	NS	NS	NS	NS	0
SUB-TOTAL		0	0	0	0	0	0	0

Database Radius Summary

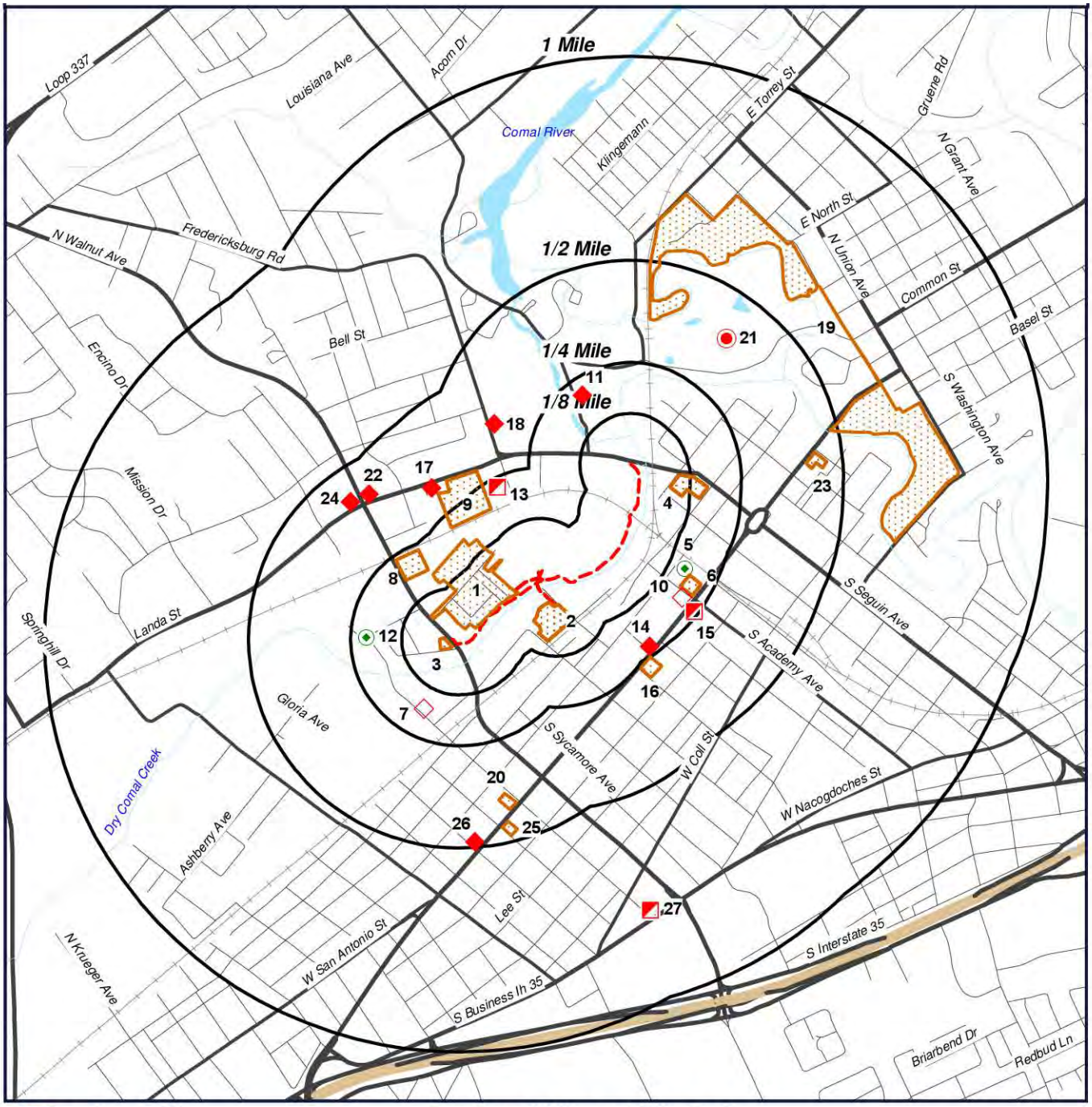
TRIBAL LISTING

*Standard environmental records are displayed in **bold**.*

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
USTR06	**0.2500**	**0**	**0**	**0**	**NS**	**NS**	**NS**	**0**
LUSTR06	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
ODINDIAN	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
INDIANRES	1.0000	0	0	0	0	0	NS	0
SUB-TOTAL		0	0	0	0	0	0	0
TOTAL		8	5	23	19	1	0	56

NOTES:
NS = NOT SEARCHED
TP/AP = TARGET PROPERTY/ADJACENT PROPERTY

Radius Map 1



Target Property (TP)

- FRSTX
- PST
- TIERII
- ERNSTX
- LPST
- DCR
- IHW
- RCRANGR06

- IHW
- PST
- LPST
- IHWCA
- CALF
- SEMSARCH

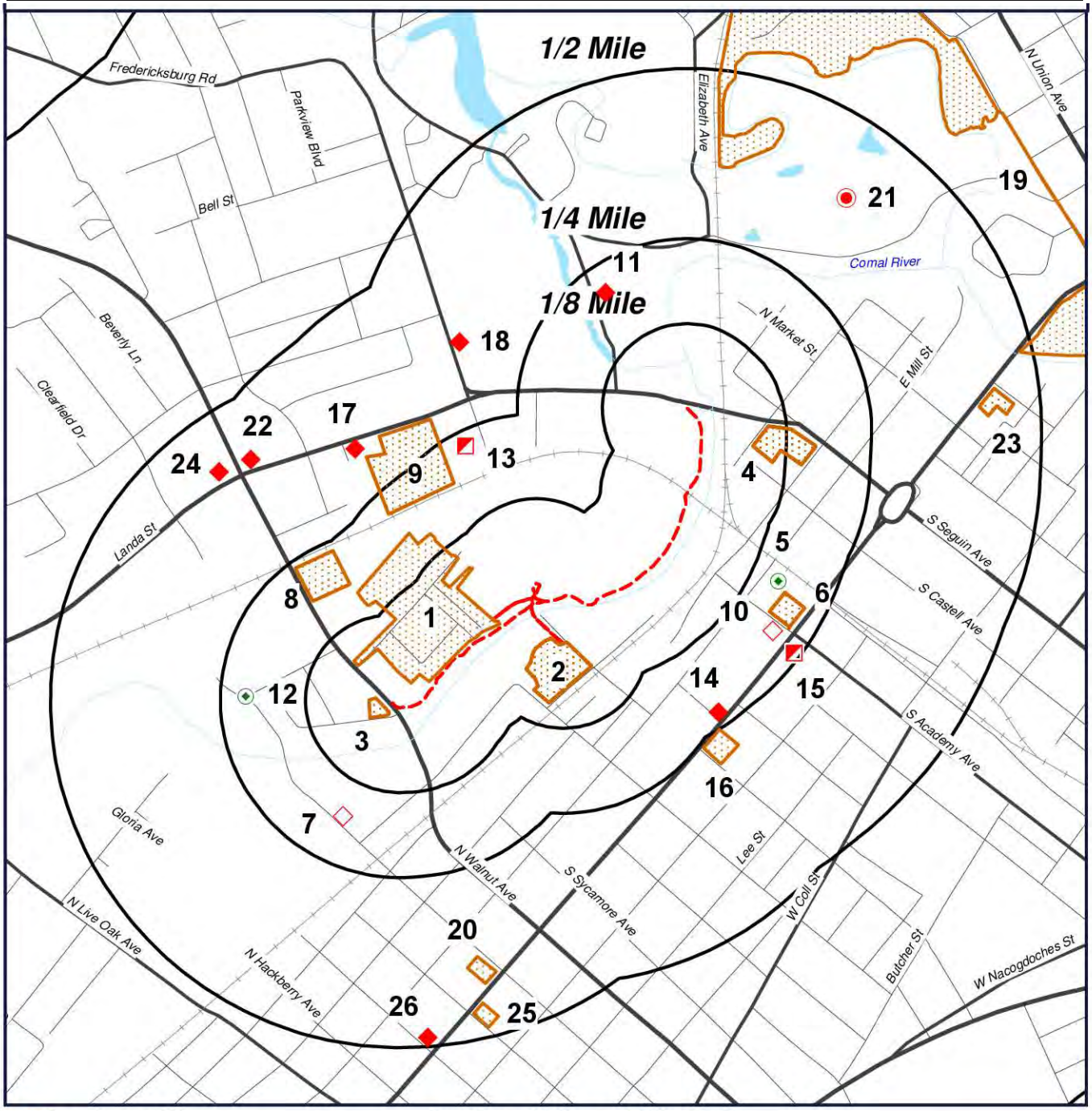
Dry Comal Hike and Bike Trail
New Braunfels, Texas
78130

N
W E
S

0' 1000' 2000' 3000'
SCALE: 1" = 2000'

[Click here to access Satellite view]

Radius Map 2



Target Property (TP)

FRSTX	IHW
PST	PST
TIERII	LPST
ERNSTX	IHWCA
LPST	CALF
DCR	SEMSARCH
IHW	
RCRANGR06	

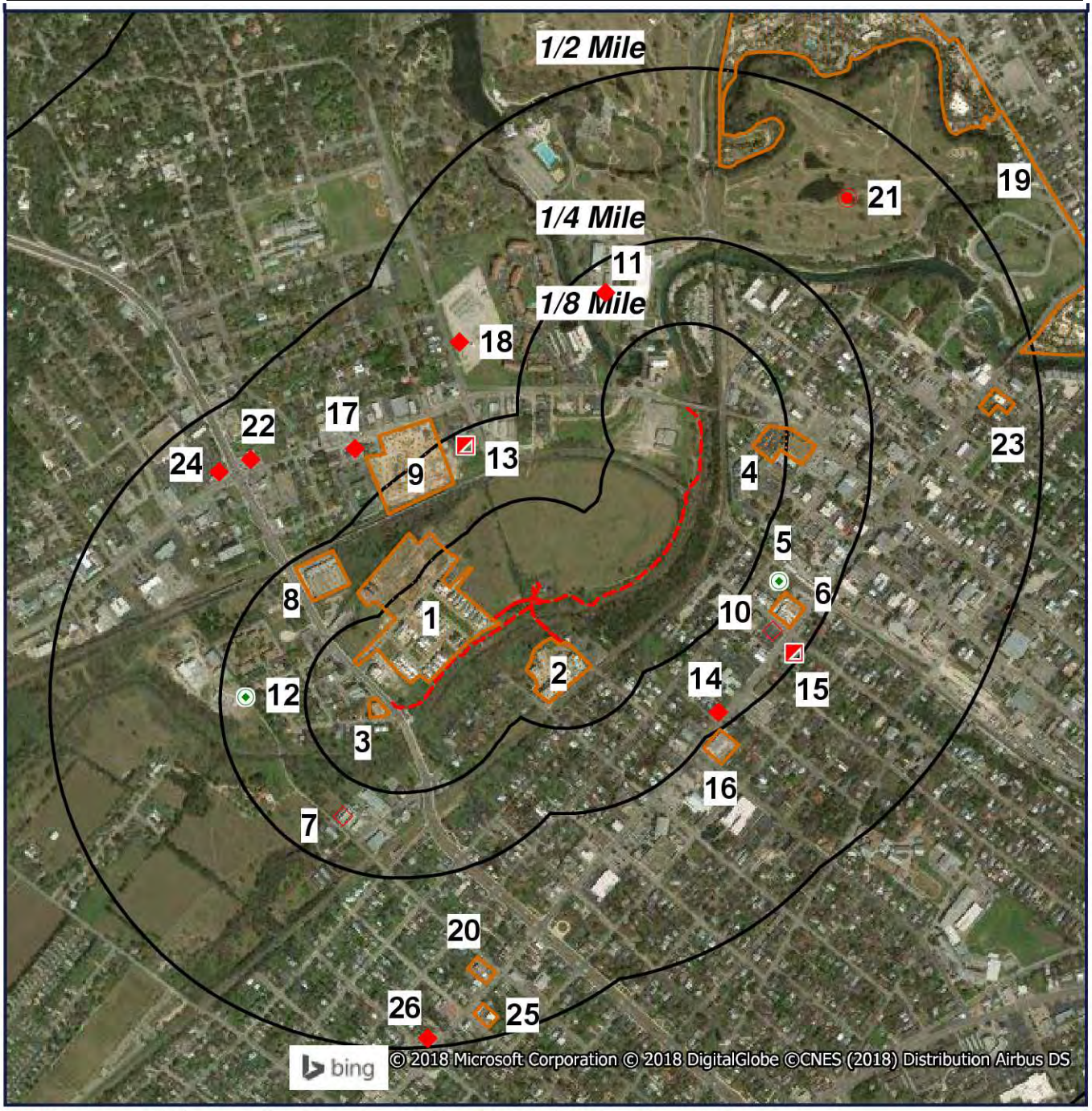
Dry Comal Hike and Bike Trail
New Braunfels, Texas
78130

N W E S

0' 600' 1200' 1800'
SCALE: 1" = 1200'

Click here to access Satellite view

Ortho Map



Target Property (TP)

- FRSTX
- PST
- TIERII
- ERNSTX
- LPST
- DCR
- IHW
- RCRANGR06

- IHW
- PST
- LPST
- IHWCA
- CALF
- SEMSARCH

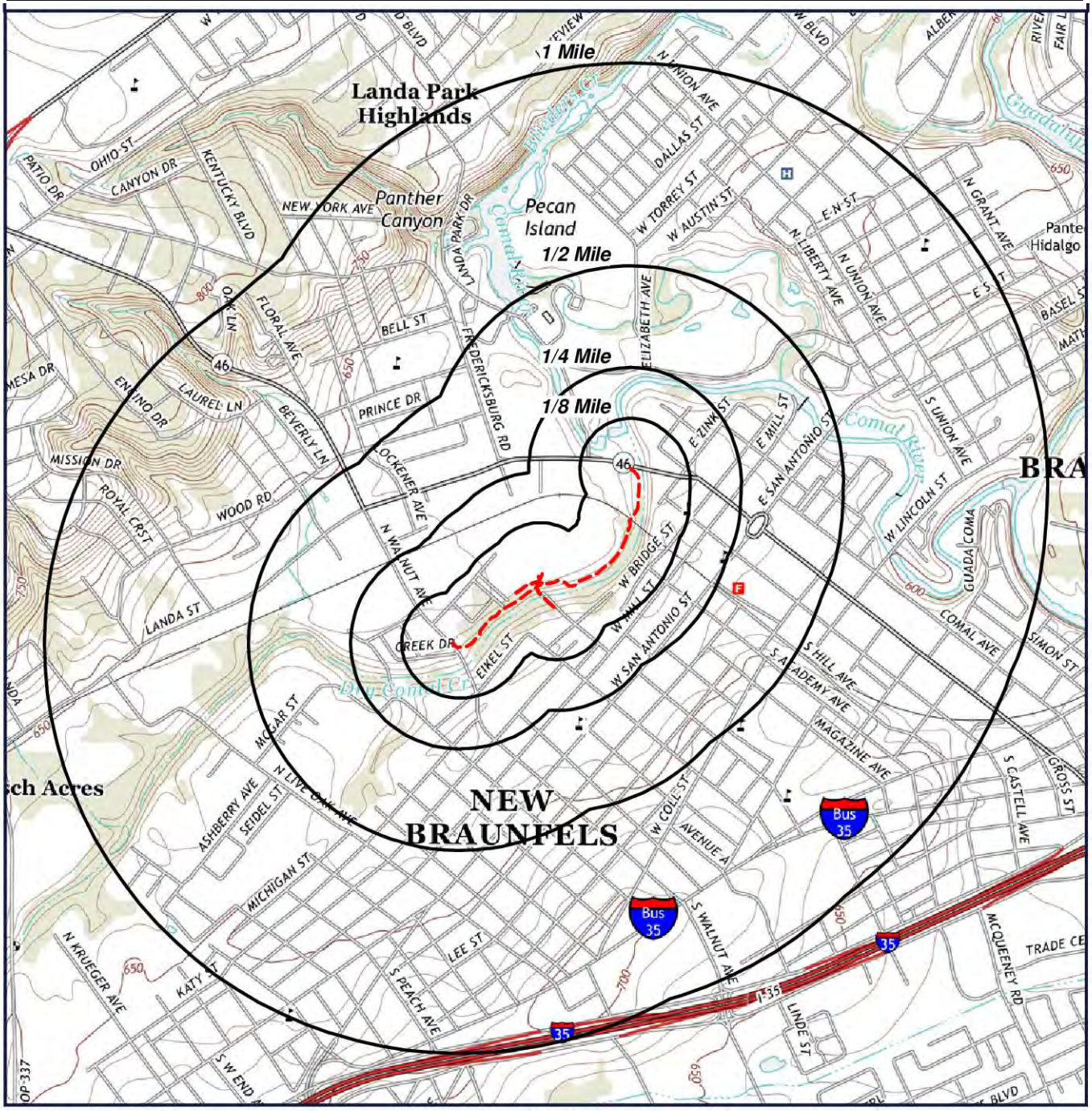
Quadrangle(s): New Braunfels West
Dry Comal Hike and Bike Trail
New Braunfels, Texas
78130

N
W E
S

0' 600' 1200' 1800'
SCALE: 1" = 1200'

[Click here to access Satellite view]

Topographic Map



Quadrangle(s): New Braunfels West
Source: USGS, 02/21/2013
Dry Comal Hike and Bike Trail
New Braunfels, Texas
78130

N
W E
S

0' 1000' 2000' 3000'
SCALE: 1" = 2000'

Click here to access Satellite view

Located Sites Summary

*NOTE: Standard environmental records are displayed in **bold**.*

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address	PAGE #
1	FRSTX	110038317121	TP	TOWN CREEK SUBDIVISION PHASE 1	OFF IH 35 N & WALNUT AVE BETWEEN EIKEL AND CEDAR, NEW BRAUNFELS, TX 78130	20
2	***ERNSTX***	***42202***	***0.001 mi. SSE (5 ft.)***		***441 N. GUENTHER, NEW BRAUNFELS, TX 78130***	***21***
2	FRSTX	110034611132	0.001 mi. SSE (5 ft.)	NEW BRAUNFELS SMOKEHOUSE	441 N GUENTHER AVE, NEW BRAUNFELS, TX 78130	22
2	***LPST***	***094360***	***0.001 mi. SSE (5 ft.)***	***NEW BRAUNFELS SMOKEHOUSE INC***	***441 N GUENTHER AVE, NEW BRAUNFELS, TX***	***23***
2	***PST***	***15453***	***0.001 mi. SSE (5 ft.)***	***NEW BRAUNFELS SMOKEHOUSE***	***441 N GUENTHER AVE, NEW BRAUNFELS, TX 78130***	***24***
2	TIERII	57KKKG002DQG	0.001 mi. SSE (5 ft.)	NEW BRAUNFELS SMOKEHOUSE	441 N. GUENTHER ST, NEW BRAUNFELS, TX 78130	27
3	***DCR***	***RN105025670***	***0.013 mi. SW (69 ft.)***	***SUPER CLEANERS 3***	***602 CREEK DR, NEW BRAUNFELS, TX 78130***	***30***
3	FRSTX	110035058521	0.013 mi. SW (69 ft.)	SUPER CLEANERS 3	602 CREEK DR, NEW BRAUNFELS, TX 78130	31
4	IHW	69277	0.076 mi. E (401 ft.)	BLUEBONNET MOTORS	315 W SEGUIN AVE, NEW BRAUNFELS, TX 78130	32
4	***LPST***	***097353***	***0.076 mi. E (401 ft.)***	***BLUEBONNET MOTOR CO***	***315 N SEGUIN AVE, NEW BRAUNFELS, TX***	***33***
4	***PST***	***44331***	***0.076 mi. E (401 ft.)***	***BLUEBONNET MOTORS***	***315 N SEGUIN AVE, NEW BRAUNFELS, TX 78130***	***34***
4	***PST***	***45641***	***0.076 mi. E (401 ft.)***	***BLUEBONNET MOTORS***	***315 N SEGUIN AVE, NEW BRAUNFELS, TX 78130***	***52***
4	***RCRANGR06***	***TXD988059911***	***0.076 mi. E (401 ft.)***	***BLUEBONNET MOTORS INC***	***315 W SEGUIN AVE, NEW BRAUNFELS, TX 78130***	***68***
5	***DCR***	***RN100710094***	***0.167 mi. ESE (882 ft.)***	***TIP TOP CLEANERS & TUXEDOS***	***321 W MILL ST, NEW BRAUNFELS, TX 78130***	***70***
5	IHW	75416	0.167 mi. ESE (882 ft.)	TIP TOP CLEANERS	321 W MILL ST, NEW BRAUNFELS, TX 78130	72
6	IHW	69116	0.176 mi. ESE (929 ft.)	KRUEGER CHEVROLET	386 SAN ANTONIO, NEW BRAUNFELS, TX 78130	73
6	***LPST***	***098584***	***0.176 mi. ESE (929 ft.)***	***DON MAXWELL CHEVROLET***	***386 W SAN ANTONIO ST, NEW BRAUNFELS, TX***	***74***
6	***PST***	***12011***	***0.176 mi. ESE (929 ft.)***	***RHOADS INTERIORS***	***386 W SAN ANTONIO ST, NEW BRAUNFELS, TX 78130***	***75***
7	***PST***	***3679***	***0.18 mi. SSW (950 ft.)***	***WHOLESALE BEERS***	***1197 EIKEL ST, NEW BRAUNFELS, TX 78130***	***90***
7	***SEMSARCH***	***TXD061180253***	***0.18 mi. SSW (950 ft.)***	***CANYON LAKE DISPOSAL SERVICE***	***1197 EIKEL ST, NEW BRAUNFELS, TX 78130***	***93***

Located Sites Summary

*NOTE: Standard environmental records are displayed in **bold**.*

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address	PAGE #
8	***LPST***	***101595***	***0.18 mi. NNW (950 ft.)***	***SOUTHWESTERN BELL SOC NEW BRAUNFELS***	***726 N WALNUT AVE, NEW BRAUNFELS, TX***	***94***
8	***PST***	***19317***	***0.18 mi. NNW (950 ft.)***	***NEW BRAUNFELS WANUT AVE SOC***	***726 N WALNUT AVE, NEW BRAUNFELS, TX 78130***	***97***
9	***DCR***	***RN100695139***	***0.19 mi. NW (1003 ft.)***	***KATHY CLEANERS & ATLERATIONS***	***377 LANDA ST, NEW BRAUNFELS, TX 78130***	***100***
9	IHW	82244	0.19 mi. NW (1003 ft.)	NEW BRAUNFELS CLEANERS	377 LANDA ST, NEW BRAUNFELS, TX 78130	102
10	***PST***	***23367***	***0.197 mi. ESE (1040 ft.)***	***402 W SAN ANTONIO***	***402 W SAN ANTONIO ST, NEW BRAUNFELS, TX 78130***	***104***
11	***LPST***	***103957***	***0.207 mi. NW (1093 ft.)***	***LANDA PARK WAREHOUSE***	***164 LANDA PARK DR, NEW BRAUNFELS, TX***	***110***
11	***PST***	***18398***	***0.207 mi. NW (1093 ft.)***	***LANDA PARK MAINT WAREHOUSE***	***164 LANDA PARK DR, NEW BRAUNFELS, TX 78130***	***112***
12	IHW	52031	0.212 mi. W (1119 ft.)	HENRY & SONS CONSTRUCTION MAINTENANCE YARD	631 BAVARIAN DR, NEW BRAUNFELS, TX 78130	114
13	***IHWCA***	***T2453***	***0.228 mi. NNW (1204 ft.)***	***LANDA PLAZA SHOPPING CENTER***	***315 LANDA ST, NEW BRAUNFELS, TX 78130***	***121***
13	IOP	0751	0.228 mi. NNW (1204 ft.)	LAND PLAZA SHOPPING CENTER	315 LANDA STREET, NEW BRAUNFELS, TX 78163	122
14	***LPST***	***091287***	***0.229 mi. SE (1209 ft.)***	***HANZ SERVICE STATION***	***630 W SAN ANTONIO ST, NEW BRAUNFELS, TX***	***123***
14	***PST***	***40759***	***0.229 mi. SE (1209 ft.)***	***HANZ SERVICE STATION***	***630 W SAN ANTONIO ST, NEW BRAUNFELS, TX 78130***	***124***
15	IHW	66462	0.241 mi. ESE (1272 ft.)	GOODYEAR SERVICE STORE 4756	417 W SAN ANTONIO ST, NEW BRAUNFELS, TX 78130	130
15	IHW	73071	0.241 mi. ESE (1272 ft.)	GOODYEAR AUTO SERVICE CENTER	417 W SAN ANTONIO ST, NEW BRAUNFELS, TX 78130	132
15	***IHWCA***	***73071***	***0.241 mi. ESE (1272 ft.)***	***GOODYEAR AUTO SERVICE CENTER***	***417 W SAN ANTONIO ST, NEW BRAUNFELS, TX 78130***	***133***
15	***PST***	***13221***	***0.241 mi. ESE (1272 ft.)***	***GOODYEAR TIRE & RUBBER***	***417 W SAN ANTONIO ST, NEW BRAUNFELS, TX 78130***	***134***
16	***LPST***	***096938***	***0.25 mi. SE (1320 ft.)***	***MILT FERGUSON MOTOR CO***	***699 W SAN ANTONIO ST, NEW BRAUNFELS, TX***	***137***
17	***LPST***	***094953***	***0.322 mi. NW (1700 ft.)***	***LANDA TEXACO***	***385 LANDA ST, NEW BRAUNFELS, TX***	***138***
17	***LPST***	***099616***	***0.322 mi. NW (1700 ft.)***	***LANDA TEXACO***	***385 LANDA ST, NEW BRAUNFELS, TX***	***139***
18	APAR	T2462	0.349 mi. WNW (1843 ft.)	FORMER LANDA MILLS POWER PLANT	TX	140

Located Sites Summary

NOTE: Standard environmental records are displayed in **bold**.

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address	PAGE #
18	IHWCA	T0383	0.349 mi. WNW (1843 ft.)	LOWER COLORADO RIVER AUTHORITY LCRA COMAL FACILITY	NEW BRAUNFELS, TX	141
18	IHWCA	T2462	0.349 mi. WNW (1843 ft.)	FORMER LANDA MILLS POWER PLANT	NE CORNER OF LANDA PARK DR AND LANDA ST - NEW BRAUNFELS, TX., TX	142
18	LPST	095755	0.349 mi. WNW (1843 ft.)	LCRA COMAL FACILITY VCP 0677	LANDA STREET AT FREDERICKSBURG AVENUE FORMER ELECTRIC POWER PLANT, NEW BRAUNFELS, TX	143
18	VCP	0677	0.349 mi. WNW (1843 ft.)	COMAL POWER PLANT PROPERTY	LANDA STREET @ FREDERICKSBURG AVENUE, NEW BRAUNFELS, TX	144
19	LPST	107523	0.359 mi. N (1896 ft.)	SCHLITTERBAHN RESORT WATER PARK	305 W AUSTIN ST, NEW BRAUNFELS, TX	145
20	LPST	096661	0.38 mi. SSE (2006 ft.)	HERNANDEZ EXXON	1216 W SAN ANTONIO ST, NEW BRAUNFELS, TX	147
21	CALF	800	0.388 mi. NE (2049 ft.)	HINMAN ISLAND PARK	LANDA PARK CURRENTLY A GOLF COURSE, TX	148
22	LPST	110659	0.408 mi. NW (2154 ft.)	CIRCLE K 5246	486 LANDA ST, NEW BRAUNFELS, TX	149
22	LPST	119185	0.408 mi. NW (2154 ft.)	FORMER PARKSIDE MART	486 LANDA ST, NEW BRAUNFELS, TX	154
22	LPST	119516	0.408 mi. NW (2154 ft.)	PARKSIDE MART	486 LANDA ST, NEW BRAUNFELS, TX	159
23	LPST	097354	0.41 mi. E (2165 ft.)	H DITTLINGER ROLLER MILL	398 E SAN ANTONIO ST, NEW BRAUNFELS, TX	160
23	SEMSARCH	TXD980750657	0.41 mi. E (2165 ft.)	FLOUR MILLS OF AMERICA	398 E SAN ANTONIO, NEW BRAUNFELS, TX 78130	161
24	LPST	092414	0.419 mi. NW (2212 ft.)	MCBEES BARBEQUE	508 LANDA ST, NEW BRAUNFELS, TX	162
25	LPST	100577	0.448 mi. SSE (2365 ft.)	PAC N SAC STORE 501	1289 W SAN ANTONIO ST, NEW BRAUNFELS, TX	163
26	LPST	101434	0.488 mi. S (2577 ft.)	NEW BRAUNFELS FRAME ALIGNMENT	1396 W SAN ANTONIO ST, NEW BRAUNFELS, TX	167
27	IHWCA	T1704	0.781 mi. SSE (4124 ft.)	SCHWABS MACHINE SHOP NEW BRAUNFELS	1168 S BUSINESS IH 35, NEW BRAUNFELS, TX 78130	171

MAP ID# 1 **Distance from Property: 0 mi. (0 ft.) X**

FACILITY INFORMATION

REGISTRY ID: **110038317121**

NAME: **TOWN CREEK SUBDIVISION PHASE 1**

LOCATION ADDRESS: **OFF IH 35 N & WALNUT AVE BETWEEN EIKEL AND CEDAR**
NEW BRAUNFELS, TX 78130

COUNTY: **COMAL**

EPA REGION: **6**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

TOWN CREEK SUBDIVISION PHASE 1

PROGRAM/S LISTED FOR THIS FACILITY

TX-TCEQ ACR - TEXAS COMMISSION ON EVIRONMENTAL QUALITY - AGENCY CENTRAL REGISTRY

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

Back to Report Summary

MAP ID# 2 **Distance from Property: 0.001 mi. (5 ft.) SSE**

INCIDENT INFORMATION

GSID#: **42202**
NRC ID#: **42202**
INCIDENT LOCATION: **NOT REPORTED**
INCIDENT ADDRESS: **441 N. GUENTHER**
NEW BRAUNFELS, TX 78130
INCIDENT COUNTY: **COMAL**

INCIDENT DETAILS

INCIDENT DATE: **9/29/1990 9:00:00 PM**
INCIDENT CAUSE: **EQUIPMENT FAILURE**
INCIDENT TYPE: **FIXED**
INCIDENT OCCURED/DISCOVERED: **OCCURRED**
INCIDENT DESCRIPTION: **COOLING TOWER / WATER VALVE MALFUNTIONED CAUSING RELEASE**

RESPONSIBLE PARTY

RESPONSIBLE COMPANY: **NEW BRAUNFELS SMOKE HOUSE**
ADDRESS: **ADDRESS NOT REPORTED**
NEW BRAUNFELS TX 78130
RESPONSIBLE COMPANY ORGANIZATION TYPE: **PRIVATE ENTERPRISE**

MATERIALS INVOLVED

CHRIS CODE: **AMA**
MATERIAL REACHED WATER: **YES**
WATER AMOUNT: **UNKNOWN AMOUNT / NOT REPORTED**
MATERIAL RELEASED/AMOUNT: **AMMONIA, ANHYDROUS / UNKNOWN AMOUNT**

OTHER MATERIALS INVOLVED

- NO OTHER MATERIALS INVOLVED -

REMEDIAL ACTION

REMEDIAL ACTION: **NONE**

Back to Report Summary

MAP ID# 2 **Distance from Property: 0.001 mi. (5 ft.) SSE**

FACILITY INFORMATION

REGISTRY ID: **110034611132**

NAME: **NEW BRAUNFELS SMOKEHOUSE**

LOCATION ADDRESS: **441 N GUENTHER AVE**
NEW BRAUNFELS, TX 781307948

COUNTY: **COMAL**

EPA REGION: **6**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

NEW BRAUNFELS SMOKEHOUSE

PROGRAM/S LISTED FOR THIS FACILITY

TX-TCEQ ACR - TEXAS COMMISSION ON EVIRONMENTAL QUALITY - AGENCY CENTRAL REGISTRY

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

Back to Report Summary

MAP ID# 2 **Distance from Property: 0.001 mi. (5 ft.) SSE**

FACILITY INFORMATION

GEOSEARCH ID: **094360**
LPST ID: **094360**
FACILITY ID: **NOT REPORTED**
NAME: **NEW BRAUNFELS SMOKEHOUSE INC**
ADDRESS: **441 N GUENTHER AVE**
NEW BRAUNFELS, TX

LEAKING TANK DETAILS

LPST ID: **094360**
NAME: **NEW BRAUNFELS SMOKEHOUSE INC**
FACILITY LOCATION: **NOT REPORTED**
PRIORITY CODE: **4.1 - GW IMPACTED NO APPARENT THREATS OR IMPACTS TO RECEPTORS**
CORRECTIVE ACTION STATUS CODE: **6A - FINAL CONCURRENCE ISSUED**
CORRECTIVE ACTION START DATE: **1/19/1990**
REPORTED DATE: **12/14/1989**
ENTERED DATE: **1/19/1990**

PRP INFORMATION

NAME: **NEW BRAUNFELS SMOKEHOUSE INC**
ADDRESS: **ADDRESS NOT REPORTED**
NEW BRAUNFELS TX 78130
CONTACT: **NOT REPORTED**
PHONE: **NOT REPORTED**

UNDERGROUND STORAGE TANK

NO UNDERGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

ABOVEGROUND STORAGE TANK INFORMATION

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

MAP ID# 2 **Distance from Property: 0.001 mi. (5 ft.) SSE**

FACILITY INFORMATION

ID#: **15453**
NAME: **NEW BRAUNFELS SMOKEHOUSE**
ADDRESS: **441 N GUENTHER AVE**
NEW BRAUNFELS, TX 78130
COUNTY: **COMAL**
REGION: **13**
TYPE: **FLEET REFUELING**
BEGIN DATE: **08/15/1986**
STATUS: **INACTIVE**
EXEMPT STATUS: **NO**
RECORDS OFF-SITE: **NO**
NUMBER OF ACTIVE UNDERGROUND TANKS: **NOT REPORTED**
NUMBER OF ACTIVE ABOVEGROUND TANKS: **NOT REPORTED**

APPLICATION INFORMATION:

RECEIVED DATE ON EARLIEST REGISTRATION FORM: **05/08/1986**
SIGNATURE DATE ON EARLIEST REGISTRATION FORM: **04/17/1986**
SIGNATURE NAME & TITLE: **M DIETERT, VP**
ENFORCEMENT ACTION DATE: **NOT REPORTED**

CONTACT INFORMATION

NAME: **M DIETERT**
TITLE: **VP**
ORGANIZATION: **NEW BRAUNFELS SMOKEHOUSE**
MAIL ADDRESS: **MAILING ADDRESS NOT REPORTED**
CITY NOT REPORTED
PHONE: **(512) 6257316 0**

OWNER

OWNER NUMBER: **CN600529101**
NAME: **NEW BRAUNFELS SMOKEHOUSE INC**
CONTACT ADDRESS: **OWNER ADDRESS NOT REPORTED**
CITY NOT REPORTED
TYPE: **CORPORATION/COMPANY**
BEGIN DATE: **08/15/1986**
CONTACT ROLE: **NOT REPORTED**
CONTACT NAME: **NOT REPORTED**
CONTACT TITLE: **NOT REPORTED**
ORGANIZATION: **NOT REPORTED**
PHONE: **NOT REPORTED**
FAX: **NOT REPORTED**
EMAIL: **NOT REPORTED**

OPERATOR

NO OPERATOR INFORMATION REPORTED

SELF-CERTIFICATION

-NO SELF-CERTIFICATION INFORMATION REPORTED-

CONSTRUCTION NOTIFICATION

NO CONSTRUCTION NOTIFICATION DATA REPORTED FOR THIS FACILITY

UNDERGROUND STORAGE TANK

TANK ID: **1**
INSTALLATION DATE: **01/01/1956**
TANK CAPACITY (GAL): **250**
NUMBER OF COMPARTMENTS: **1**
REGISTRATION DATE: **05/08/1986**
EMPTY TANK: **NOT EMPTY**

STATUS: **REMOVED FROM GROUND**
STATUS BEGIN DATE: **11/30/1989**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **51977**
TANK ID: **1**
COMPARTMENT LETTER: **A**
SUBSTANCES: **GASOLINE**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **250**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **2**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1974**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **1000**
EMPTY TANK: **NOT EMPTY**
STATUS: **REMOVED FROM GROUND**
STATUS BEGIN DATE: **11/30/1989**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:

NOT REPORTED

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **51978**

TANK ID: **2**

COMPARTMENT LETTER: **A**

SUBSTANCES: **GASOLINE**

OTHER SUBSTANCES: **NOT REPORTED**

CAPACITY (GAL): **1000**

COMPARTMENT RELEASE DETECTION: **NOT REPORTED**

SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**

CORROSION PROTECTION: **NOT REPORTED**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

ABOVEGROUND STORAGE TANK INFORMATION

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

MAP ID# 2 **Distance from Property: 0.001 mi. (5 ft.) SSE**

SITE INFORMATION

UNIQUE ID: **57KKKG002DQG**
SITE ID: **FATR201257KKKG002DQG**
NAME: **NEW BRAUNFELS SMOKEHOUSE**
ADDRESS: **441 N. GUENTHER ST**
NEW BRAUNFELS, TX 78130
SIGNED DATE: **03/01/2013**
VALIDATION REPORT: **NOT REPORTED**
MAILING ADDRESS: **P. O. BOX 311159**
NEW BRAUNFELS, TX 78130

SITE DETAILS

SITE TYPE: **MEATS AND MEAT PRODUCTS**
SITE TYPE: **MEAT PROCESSED FROM CARCASSES**
SITE TYPE: **MEATS AND MEAT PRODUCTS**
SITE TYPE: **MEAT PROCESSED FROM CARCASSES**
SITE TYPE: **MEATS AND MEAT PRODUCTS**
SITE TYPE: **MEAT PROCESSED FROM CARCASSES**
CHEMICAL LOCATION:
EQUIPMENT ROOM
CHEMICAL AMOUNT: **2386 POUNDS**
CHEMICAL LOCATION:
EQUIPMENT ALLEY
CHEMICAL AMOUNT: **150 GALLONS**
CHEMICAL LOCATION:
EQUIPMENT ALLEY
CHEMICAL AMOUNT: **150 GALLONS**
CHEMICAL LOCATION:
EQUIPMENT ROOM
CHEMICAL AMOUNT: **2386 POUNDS**
CHEMICAL LOCATION:
EQUIPMENT ALLEY
CHEMICAL AMOUNT: **150 GALLONS**
CHEMICAL LOCATION:
EQUIPMENT ROOM
CHEMICAL AMOUNT: **2386 POUNDS**
CHEMICAL LOCATION:
EQUIPMENT ALLEY
CHEMICAL AMOUNT: **150 GALLONS**
CHEMICAL LOCATION:
EQUIPMENT ROOM
CHEMICAL AMOUNT: **2386 POUNDS**
CHEMICAL LOCATION:
EQUIPMENT ROOM
CHEMICAL AMOUNT: **2386 POUNDS**

CHEMICAL LOCATION:
EQUIPMENT ALLEY
CHEMICAL AMOUNT: **150 GALLONS**
CHEMICAL NAME: **ANHYDROUS AMMONIA**
MAXIMUM AMOUNT: **2386 POUNDS**
FIRE: **NOT REPORTED** GAS: **YES** LIQUID: **YES** SOLID: **NOT REPORTED**
PURE: **YES** MIXTURE: **NOT REPORTED**
CHEMICAL NAME: **SULFURIC ACID**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **NOT REPORTED** GAS: **YES** LIQUID: **YES** SOLID: **NOT REPORTED**
PURE: **YES** MIXTURE: **NOT REPORTED**
CHEMICAL NAME: **ANHYDROUS AMMONIA**
MAXIMUM AMOUNT: **2386 POUNDS**
FIRE: **NOT REPORTED** GAS: **YES** LIQUID: **YES** SOLID: **NOT REPORTED**
PURE: **YES** MIXTURE: **NOT REPORTED**
CHEMICAL NAME: **SULFURIC ACID**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **NOT REPORTED** GAS: **YES** LIQUID: **YES** SOLID: **NOT REPORTED**
PURE: **YES** MIXTURE: **NOT REPORTED**
CHEMICAL NAME: **ANHYDROUS AMMONIA**
MAXIMUM AMOUNT: **2386 POUNDS**
FIRE: **NOT REPORTED** GAS: **YES** LIQUID: **YES** SOLID: **NOT REPORTED**
PURE: **YES** MIXTURE: **NOT REPORTED**
CHEMICAL NAME: **SULFURIC ACID**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **NOT REPORTED** GAS: **YES** LIQUID: **YES** SOLID: **NOT REPORTED**
PURE: **YES** MIXTURE: **NOT REPORTED**
CHEMICAL NAME: **ANHYDROUS AMMONIA**
MAXIMUM AMOUNT: **2386 POUNDS**
FIRE: **NOT REPORTED** GAS: **YES** LIQUID: **YES** SOLID: **NOT REPORTED**
PURE: **YES** MIXTURE: **NOT REPORTED**
CHEMICAL NAME: **SULFURIC ACID**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **NOT REPORTED** GAS: **YES** LIQUID: **YES** SOLID: **NOT REPORTED**
PURE: **YES** MIXTURE: **NOT REPORTED**
CHEMICAL NAME: **ANHYDROUS AMMONIA**
MAXIMUM AMOUNT: **2386 POUNDS**
FIRE: **NOT REPORTED** GAS: **YES** LIQUID: **YES** SOLID: **NOT REPORTED**
PURE: **YES** MIXTURE: **NOT REPORTED**
CHEMICAL NAME: **SULFURIC ACID**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **NOT REPORTED** GAS: **YES** LIQUID: **YES** SOLID: **NOT REPORTED**
PURE: **YES** MIXTURE: **NOT REPORTED**
MIXTURE CHEMICAL: **NOT REPORTED**
MIXTURE CHEMICAL: **NOT REPORTED**
MIXTURE CHEMICAL: **NOT REPORTED**
MIXTURE CHEMICAL: **NOT REPORTED**

MIXTURE CHEMICAL: **NOT REPORTED**

Back to Report Summary

Dry Cleaner Registration Database (DCR)

MAP ID# 3 **Distance from Property: 0.013 mi. (69 ft.) SW**

FACILITY INFORMATION

REGISTRATION #: **RN105025670**
CUSTOMER #: **NOT REPORTED**
NAME: **SUPER CLEANERS 3**
ADDRESS: **602 CREEK DR**
NEW BRAUNFELS, TX 78130-6271
ACCOUNT NUMBER: **NOT REPORTED**
PRINCIPAL NAME: **NOT REPORTED**
PHONE NUMBER: **NOT REPORTED**
SITE TYPE: **DROP STATION REGISTRATION**
FISCAL YEAR: **FY2007**
SOLVENT: **NOT REPORTED**
QUANTITY: **NOT REPORTED**

Back to Report Summary

MAP ID# 3 **Distance from Property: 0.013 mi. (69 ft.) SW**

FACILITY INFORMATION

REGISTRY ID: **110035058521**

NAME: **SUPER CLEANERS 3**

LOCATION ADDRESS: **602 CREEK DR**
NEW BRAUNFELS, TX 781306271

COUNTY: **COMAL**

EPA REGION: **6**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

SUPER CLEANERS 3

PROGRAM/S LISTED FOR THIS FACILITY

TX-TCEQ ACR - TEXAS COMMISSION ON EVIRONMENTAL QUALITY - AGENCY CENTRAL REGISTRY

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

812320 - DRYCLEANING AND LAUNDRY SERVICES (EXCEPT COIN-OPERATED).

Back to Report Summary

MAP ID# 4 **Distance from Property: 0.076 mi. (401 ft.) E**

FACILITY INFORMATION

REGISTRATION#: **69277** EPA ID: **TXD988059911**
TNRCC ID #: **24156**
NAME: **BLUEBONNET MOTORS**
ADDRESS: **315 W SEGUIN AVE**
NEW BRAUNFELS, TX 78130
CONTACT: **NEVEL H EHRHARDT**
PHONE: **512-6258011**
BUSINESS DESCRIPTION: **CAR DEALERSHIP**
INDUSTRIAL WASTE PERMIT #: **NOT REPORTED**
MUNICIPAL WASTE PERMIT #: **NOT REPORTED**
SIC CODE: **NOT REPORTED**
WASTE GENERATOR: **YES**
WASTE RECEIVER: **NO**
WASTE TRANSPORTER: **NO**
TRANSFER FACILITY: **NO**
MAQUILADORA (MEXICAN FACILITY): **NO**
STATUS: **INACTIVE**
AMOUNT OF WASTE GENERATED: **CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR**
GENERATOR TYPE: **NON-INDUSTRIAL AND/OR MUNICIPAL**
THIS FACILITY IS A NON-NOTIFIER
THIS FACILITY IS A STEERS REPORTER - (STATE OF TEXAS ENVIRONMENTAL ELECTRONIC REPORTING SYSTEM)
THIS FACILITY IS REQUIRED TO SUBMIT AN ANNUAL WASTE REPORT
THIS FACILITY IS INVOLVED IN RECYCLING ACTIVITIES
LAST UPDATE TO TRACS (TCEQ REGULATORY ACTIVITIES AND COMPLIANCE SYSTEM): **06/04/2010**

OWNER INFORMATION

NAME: **BLUEBONNET MOTORS INC**
ADDRESS: **315 N SEGUIN AVE**
NEW BRAUNFELS, TX 78130
PHONE: **1-512-6258011**

ACTIVITIES

ACTIVITY TYPE: **UNKNOWN**
ACTIVITY DESCRIPTION: **NOT REPORTED**

WASTE

WASTE ID: **49160**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **NOT REPORTED**

WASTE ID: **49161**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **NOT REPORTED**

Back to Report Summary

MAP ID# 4 **Distance from Property: 0.076 mi. (401 ft.) E**

FACILITY INFORMATION

GEOSEARCH ID: **097353**
LPST ID: **097353**
FACILITY ID: **NOT REPORTED**
NAME: **BLUEBONNET MOTOR CO**
ADDRESS: **315 N SEGUIN AVE**
NEW BRAUNFELS, TX

LEAKING TANK DETAILS

LPST ID: **097353**
NAME: **BLUEBONNET MOTOR CO**
FACILITY LOCATION: **NOT REPORTED**
PRIORITY CODE: **4A - SOIL CONTAMINATION ONLY REQUIRES FULL SITE ASSESSMENT RAP**
CORRECTIVE ACTION STATUS CODE: **6A - FINAL CONCURRENCE ISSUED**
CORRECTIVE ACTION START DATE: **11/29/1990**
REPORTED DATE: **10/29/1990**
ENTERED DATE: **11/29/1990**

PRP INFORMATION

NAME: **BLUEBONNET MOTORS INC**
ADDRESS: **ADDRESS NOT REPORTED**
NEW BRAUNFELS TX 78130
CONTACT: **NOT REPORTED**
PHONE: **NOT REPORTED**

UNDERGROUND STORAGE TANK

NO UNDERGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

ABOVEGROUND STORAGE TANK INFORMATION

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

MAP ID# 4 **Distance from Property: 0.076 mi. (401 ft.) E**

FACILITY INFORMATION

ID#: **44331**
NAME: **BLUEBONNET MOTORS**
ADDRESS: **315 N SEGUIN AVE**
NEW BRAUNFELS, TX 78130
COUNTY: **COMAL**
REGION: **13**
TYPE: **RETAIL**
BEGIN DATE: **09/01/1987**
STATUS: **INACTIVE**
EXEMPT STATUS: **NO**
RECORDS OFF-SITE: **NO**
NUMBER OF ACTIVE UNDERGROUND TANKS: **NOT REPORTED**
NUMBER OF ACTIVE ABOVEGROUND TANKS: **NOT REPORTED**

APPLICATION INFORMATION:

RECEIVED DATE ON EARLIEST REGISTRATION FORM: **12/05/1986**
SIGNATURE DATE ON EARLIEST REGISTRATION FORM: **12/03/1986**
SIGNATURE NAME & TITLE: **GERALD SCHUMANN, SEV. MGR.**
ENFORCEMENT ACTION DATE: **NOT REPORTED**

CONTACT INFORMATION

NAME: **GERALD SCHUMANN**
TITLE: **SEV MGR**
ORGANIZATION: **BLUEBONNET MOTORS**
MAIL ADDRESS: **MAILING ADDRESS NOT REPORTED**
CITY NOT REPORTED
PHONE: **(512) 6258011 0**

OWNER

OWNER NUMBER: **CN600527709**
NAME: **BLUEBONNET MOTORS INC**
CONTACT ADDRESS: **OWNER ADDRESS NOT REPORTED**
CITY NOT REPORTED
TYPE: **CORPORATION/COMPANY**
BEGIN DATE: **09/01/1987**
CONTACT ROLE: **NOT REPORTED**
CONTACT NAME: **NOT REPORTED**
CONTACT TITLE: **NOT REPORTED**
ORGANIZATION: **NOT REPORTED**
PHONE: **NOT REPORTED**
FAX: **NOT REPORTED**
EMAIL: **NOT REPORTED**

OPERATOR

NO OPERATOR INFORMATION REPORTED

SELF-CERTIFICATION

-NO SELF-CERTIFICATION INFORMATION REPORTED-

CONSTRUCTION NOTIFICATION

NO CONSTRUCTION NOTIFICATION DATA REPORTED FOR THIS FACILITY

UNDERGROUND STORAGE TANK

TANK ID: **1**
INSTALLATION DATE: **08/31/1987**
TANK CAPACITY (GAL): **99**
NUMBER OF COMPARTMENTS: **1**
REGISTRATION DATE: **12/05/1986**
EMPTY TANK: **NOT EMPTY**

STATUS: **IN USE**
STATUS BEGIN DATE: **08/31/1987**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **118291**
TANK ID: **1**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **99**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **2**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **08/31/1987**
REGISTRATION DATE: **12/05/1986**
TANK CAPACITY (GAL): **99**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **08/31/1987**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:

NOT REPORTED

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **118290**

TANK ID: **2**

COMPARTMENT LETTER: **A**

SUBSTANCES: **HYDRAULIC LIFT OIL**

OTHER SUBSTANCES: **NOT REPORTED**

CAPACITY (GAL): **99**

COMPARTMENT RELEASE DETECTION: **NOT REPORTED**

SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**

CORROSION PROTECTION: **NOT REPORTED**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **3**

NUMBER OF COMPARTMENTS: **1**

INSTALLATION DATE: **08/31/1987**

REGISTRATION DATE: **12/05/1986**

TANK CAPACITY (GAL): **99**

EMPTY TANK: **NOT EMPTY**

STATUS: **IN USE**

STATUS BEGIN DATE: **08/31/1987**

INTERNAL PROTECTION DATE: **NOT REPORTED**

REGULATORY STATUS: **EXEMPT**

TANK DESIGN SINGLE WALL: **NO**

TANK DESIGN DOUBLE WALL: **NO**

PIPE DESIGN SINGLE WALL: **NO**

PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:

STEEL

CORROSION PROTECTION:

NOT REPORTED

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **118289**

TANK ID: **3**

COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **99**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **4**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **08/31/1987**
REGISTRATION DATE: **12/05/1986**
TANK CAPACITY (GAL): **99**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **08/31/1987**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **118288**
TANK ID: **4**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **99**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **5**

NUMBER OF COMPARTMENTS: **1**

INSTALLATION DATE: **08/31/1987**

REGISTRATION DATE: **12/05/1986**

TANK CAPACITY (GAL): **99**

EMPTY TANK: **NOT EMPTY**

STATUS: **IN USE**

STATUS BEGIN DATE: **08/31/1987**

INTERNAL PROTECTION DATE: **NOT REPORTED**

REGULATORY STATUS: **EXEMPT**

TANK DESIGN SINGLE WALL: **NO**

TANK DESIGN DOUBLE WALL: **NO**

PIPE DESIGN SINGLE WALL: **NO**

PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:

STEEL

CORROSION PROTECTION:

NOT REPORTED

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **118285**

TANK ID: **5**

COMPARTMENT LETTER: **A**

SUBSTANCES: **HYDRAULIC LIFT OIL**

OTHER SUBSTANCES: **NOT REPORTED**

CAPACITY (GAL): **99**

COMPARTMENT RELEASE DETECTION: **NOT REPORTED**

SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**

CORROSION PROTECTION: **NOT REPORTED**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **6**

NUMBER OF COMPARTMENTS: **1**

INSTALLATION DATE: **08/31/1987**
REGISTRATION DATE: **12/05/1986**
TANK CAPACITY (GAL): **99**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **08/31/1987**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **118287**
TANK ID: **6**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **99**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **7**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **08/31/1987**
REGISTRATION DATE: **12/05/1986**
TANK CAPACITY (GAL): **99**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **08/31/1987**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:

STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**
COMPARTMENT DETAILS
UST COMPARTMENT ID: **118286**
TANK ID: **7**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **99**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**
PIPING SYSTEMS
MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **8**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **08/31/1987**
REGISTRATION DATE: **12/05/1986**
TANK CAPACITY (GAL): **99**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **08/31/1987**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS
MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**
COMPARTMENT DETAILS

UST COMPARTMENT ID: **118292**
TANK ID: **8**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **99**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **9**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **08/31/1987**
REGISTRATION DATE: **12/05/1986**
TANK CAPACITY (GAL): **99**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **08/31/1987**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **118294**
TANK ID: **9**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **99**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **10**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **08/31/1987**
REGISTRATION DATE: **12/05/1986**
TANK CAPACITY (GAL): **99**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **08/31/1987**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS
MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**
COMPARTMENT DETAILS
UST COMPARTMENT ID: **118293**
TANK ID: **10**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **99**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**
PIPING SYSTEMS
MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **11**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **08/31/1987**
REGISTRATION DATE: **12/05/1986**
TANK CAPACITY (GAL): **99**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **08/31/1987**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **118298**
TANK ID: **11**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **99**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **12**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **08/31/1987**
REGISTRATION DATE: **12/05/1986**
TANK CAPACITY (GAL): **99**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **08/31/1987**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **118297**
TANK ID: **12**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **99**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **13**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **08/31/1987**
REGISTRATION DATE: **12/05/1986**
TANK CAPACITY (GAL): **99**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **08/31/1987**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **118296**
TANK ID: **13**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **99**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **14**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **08/31/1987**
REGISTRATION DATE: **12/05/1986**
TANK CAPACITY (GAL): **99**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **08/31/1987**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **118295**
TANK ID: **14**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **99**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**

CORROSION PROTECTION: **NOT REPORTED**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **15**

NUMBER OF COMPARTMENTS: **1**

INSTALLATION DATE: **08/31/1987**

REGISTRATION DATE: **12/05/1986**

TANK CAPACITY (GAL): **99**

EMPTY TANK: **NOT EMPTY**

STATUS: **IN USE**

STATUS BEGIN DATE: **08/31/1987**

INTERNAL PROTECTION DATE: **NOT REPORTED**

REGULATORY STATUS: **EXEMPT**

TANK DESIGN SINGLE WALL: **NO**

TANK DESIGN DOUBLE WALL: **NO**

PIPE DESIGN SINGLE WALL: **NO**

PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:

STEEL

CORROSION PROTECTION:

NOT REPORTED

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **118303**

TANK ID: **15**

COMPARTMENT LETTER: **A**

SUBSTANCES: **HYDRAULIC LIFT OIL**

OTHER SUBSTANCES: **NOT REPORTED**

CAPACITY (GAL): **99**

COMPARTMENT RELEASE DETECTION: **NOT REPORTED**

SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**

CORROSION PROTECTION: **NOT REPORTED**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **16**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **08/31/1987**
REGISTRATION DATE: **12/05/1986**
TANK CAPACITY (GAL): **99**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **08/31/1987**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **118302**
TANK ID: **16**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **99**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **17**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **08/31/1987**
REGISTRATION DATE: **12/05/1986**
TANK CAPACITY (GAL): **99**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **08/31/1987**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:

STEEL

CORROSION PROTECTION:

NOT REPORTED

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **118301**

TANK ID: **17**

COMPARTMENT LETTER: **A**

SUBSTANCES: **HYDRAULIC LIFT OIL**

OTHER SUBSTANCES: **NOT REPORTED**

CAPACITY (GAL): **99**

COMPARTMENT RELEASE DETECTION: **NOT REPORTED**

SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**

CORROSION PROTECTION: **NOT REPORTED**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **18**

NUMBER OF COMPARTMENTS: **1**

INSTALLATION DATE: **08/31/1987**

REGISTRATION DATE: **12/05/1986**

TANK CAPACITY (GAL): **99**

EMPTY TANK: **NOT EMPTY**

STATUS: **IN USE**

STATUS BEGIN DATE: **08/31/1987**

INTERNAL PROTECTION DATE: **NOT REPORTED**

REGULATORY STATUS: **EXEMPT**

TANK DESIGN SINGLE WALL: **NO**

TANK DESIGN DOUBLE WALL: **NO**

PIPE DESIGN SINGLE WALL: **NO**

PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:

STEEL

CORROSION PROTECTION:

NOT REPORTED

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **118300**

TANK ID: **18**

COMPARTMENT LETTER: **A**

SUBSTANCES: **HYDRAULIC LIFT OIL**

OTHER SUBSTANCES: **NOT REPORTED**

CAPACITY (GAL): **99**

COMPARTMENT RELEASE DETECTION: **NOT REPORTED**

SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**

CORROSION PROTECTION: **NOT REPORTED**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **19**

NUMBER OF COMPARTMENTS: **1**

INSTALLATION DATE: **08/31/1987**

REGISTRATION DATE: **12/05/1986**

TANK CAPACITY (GAL): **NOT REPORTED**

EMPTY TANK: **NOT EMPTY**

STATUS: **REMOVED FROM GROUND**

STATUS BEGIN DATE: **10/24/1990**

INTERNAL PROTECTION DATE: **NOT REPORTED**

REGULATORY STATUS: **FULLY REGULATED**

TANK DESIGN SINGLE WALL: **NO**

TANK DESIGN DOUBLE WALL: **NO**

PIPE DESIGN SINGLE WALL: **NO**

PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:

STEEL

CORROSION PROTECTION:

NOT REPORTED

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **118284**

TANK ID: **19**

COMPARTMENT LETTER: **A**

SUBSTANCES: **USED OIL**

OTHER SUBSTANCES: **NOT REPORTED**

CAPACITY (GAL): **NOT REPORTED**

COMPARTMENT RELEASE DETECTION: **NOT REPORTED**

SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**

CORROSION PROTECTION: **NOT REPORTED**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **20**

NUMBER OF COMPARTMENTS: **1**

INSTALLATION DATE: **08/31/1987**

REGISTRATION DATE: **12/05/1986**

TANK CAPACITY (GAL): **99**

EMPTY TANK: **NOT EMPTY**

STATUS: **IN USE**

STATUS BEGIN DATE: **08/31/1987**

INTERNAL PROTECTION DATE: **NOT REPORTED**

REGULATORY STATUS: **EXEMPT**

TANK DESIGN SINGLE WALL: **NO**

TANK DESIGN DOUBLE WALL: **NO**

PIPE DESIGN SINGLE WALL: **NO**

PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:

STEEL

CORROSION PROTECTION:

NOT REPORTED

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **118299**

TANK ID: **20**

COMPARTMENT LETTER: **A**

SUBSTANCES: **HYDRAULIC LIFT OIL**

OTHER SUBSTANCES: **NOT REPORTED**

CAPACITY (GAL): **99**

COMPARTMENT RELEASE DETECTION: **NOT REPORTED**

SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**

CORROSION PROTECTION: **NOT REPORTED**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

ABOVEGROUND STORAGE TANK INFORMATION

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

MAP ID# 4 **Distance from Property: 0.076 mi. (401 ft.) E**

FACILITY INFORMATION

ID#: **45641**
NAME: **BLUEBONNET MOTORS**
ADDRESS: **315 N SEGUIN AVE**
NEW BRAUNFELS, TX 78130
COUNTY: **COMAL**
REGION: **13**
TYPE: **RETAIL**
BEGIN DATE: **01/11/1988**
STATUS: **INACTIVE**
EXEMPT STATUS: **YES**
RECORDS OFF-SITE: **NO**
NUMBER OF ACTIVE UNDERGROUND TANKS: **NOT REPORTED**
NUMBER OF ACTIVE ABOVEGROUND TANKS: **NOT REPORTED**

APPLICATION INFORMATION:

RECEIVED DATE ON EARLIEST REGISTRATION FORM: **12/30/1987**
SIGNATURE DATE ON EARLIEST REGISTRATION FORM: **12/28/1987**
SIGNATURE NAME & TITLE: **B J MUSICK, SER MGR**
ENFORCEMENT ACTION DATE: **NOT REPORTED**

CONTACT INFORMATION

NAME: **BJ MUSICK**
TITLE: **SER MGR**
ORGANIZATION: **BLUEBONNET MOTORS**
MAIL ADDRESS: **MAILING ADDRESS NOT REPORTED**
CITY NOT REPORTED
PHONE: **(512) 6258011 0**

OWNER

OWNER NUMBER: **CN600527709**
NAME: **BLUEBONNET MOTORS INC**
CONTACT ADDRESS: **OWNER ADDRESS NOT REPORTED**
CITY NOT REPORTED
TYPE: **CORPORATION/COMPANY**
BEGIN DATE: **01/11/1988**
CONTACT ROLE: **NOT REPORTED**
CONTACT NAME: **NOT REPORTED**
CONTACT TITLE: **NOT REPORTED**
ORGANIZATION: **NOT REPORTED**
PHONE: **NOT REPORTED**
FAX: **NOT REPORTED**
EMAIL: **NOT REPORTED**

OPERATOR

NO OPERATOR INFORMATION REPORTED

SELF-CERTIFICATION

-**NO SELF-CERTIFICATION INFORMATION REPORTED-**

CONSTRUCTION NOTIFICATION

NO CONSTRUCTION NOTIFICATION DATA REPORTED FOR THIS FACILITY

UNDERGROUND STORAGE TANK

TANK ID: **2**
INSTALLATION DATE: **01/01/1967**
TANK CAPACITY (GAL): **25**
NUMBER OF COMPARTMENTS: **1**
REGISTRATION DATE: **12/30/1987**
EMPTY TANK: **NOT EMPTY**

STATUS: **IN USE**
STATUS BEGIN DATE: **01/01/1967**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **162753**
TANK ID: **2**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **25**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **3**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1967**
REGISTRATION DATE: **12/30/1987**
TANK CAPACITY (GAL): **25**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **01/01/1967**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:

NOT REPORTED

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **162754**

TANK ID: **3**

COMPARTMENT LETTER: **A**

SUBSTANCES: **HYDRAULIC LIFT OIL**

OTHER SUBSTANCES: **NOT REPORTED**

CAPACITY (GAL): **25**

COMPARTMENT RELEASE DETECTION: **NOT REPORTED**

SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**

CORROSION PROTECTION: **NOT REPORTED**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **4**

NUMBER OF COMPARTMENTS: **1**

INSTALLATION DATE: **01/01/1967**

REGISTRATION DATE: **12/30/1987**

TANK CAPACITY (GAL): **25**

EMPTY TANK: **NOT EMPTY**

STATUS: **IN USE**

STATUS BEGIN DATE: **01/01/1967**

INTERNAL PROTECTION DATE: **NOT REPORTED**

REGULATORY STATUS: **EXEMPT**

TANK DESIGN SINGLE WALL: **NO**

TANK DESIGN DOUBLE WALL: **NO**

PIPE DESIGN SINGLE WALL: **NO**

PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:

STEEL

CORROSION PROTECTION:

NOT REPORTED

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **162762**

TANK ID: **4**

COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **25**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **5**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1967**
REGISTRATION DATE: **12/30/1987**
TANK CAPACITY (GAL): **25**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **01/01/1967**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **162770**
TANK ID: **5**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **25**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **6**

NUMBER OF COMPARTMENTS: **1**

INSTALLATION DATE: **01/01/1967**

REGISTRATION DATE: **12/30/1987**

TANK CAPACITY (GAL): **25**

EMPTY TANK: **NOT EMPTY**

STATUS: **IN USE**

STATUS BEGIN DATE: **01/01/1967**

INTERNAL PROTECTION DATE: **NOT REPORTED**

REGULATORY STATUS: **EXEMPT**

TANK DESIGN SINGLE WALL: **NO**

TANK DESIGN DOUBLE WALL: **NO**

PIPE DESIGN SINGLE WALL: **NO**

PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:

STEEL

CORROSION PROTECTION:

NOT REPORTED

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **162761**

TANK ID: **6**

COMPARTMENT LETTER: **A**

SUBSTANCES: **HYDRAULIC LIFT OIL**

OTHER SUBSTANCES: **NOT REPORTED**

CAPACITY (GAL): **25**

COMPARTMENT RELEASE DETECTION: **NOT REPORTED**

SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**

CORROSION PROTECTION: **NOT REPORTED**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **7**

NUMBER OF COMPARTMENTS: **1**

INSTALLATION DATE: **01/01/1967**
REGISTRATION DATE: **12/30/1987**
TANK CAPACITY (GAL): **25**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **01/01/1967**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **162760**
TANK ID: **7**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **25**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **8**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1967**
REGISTRATION DATE: **12/30/1987**
TANK CAPACITY (GAL): **25**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **01/01/1967**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:

STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**
COMPARTMENT DETAILS
UST COMPARTMENT ID: **162759**
TANK ID: **8**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **25**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**
PIPING SYSTEMS
MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **9**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1967**
REGISTRATION DATE: **12/30/1987**
TANK CAPACITY (GAL): **25**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **01/01/1967**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS
MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**
COMPARTMENT DETAILS

UST COMPARTMENT ID: **162756**
TANK ID: **9**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **25**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **10**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1967**
REGISTRATION DATE: **12/30/1987**
TANK CAPACITY (GAL): **25**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **01/01/1967**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **162758**
TANK ID: **10**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **25**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **11**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1967**
REGISTRATION DATE: **12/30/1987**
TANK CAPACITY (GAL): **25**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **01/01/1967**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS
MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**
COMPARTMENT DETAILS
UST COMPARTMENT ID: **162757**
TANK ID: **11**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **25**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**
PIPING SYSTEMS
MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **12**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1967**
REGISTRATION DATE: **12/30/1987**
TANK CAPACITY (GAL): **25**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **01/01/1967**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **162755**
TANK ID: **12**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **25**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **13**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1967**
REGISTRATION DATE: **12/30/1987**
TANK CAPACITY (GAL): **25**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **01/01/1967**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **162769**
TANK ID: **13**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **25**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **14**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1967**
REGISTRATION DATE: **12/30/1987**
TANK CAPACITY (GAL): **25**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **01/01/1967**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **162768**
TANK ID: **14**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **25**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **15**
INSTALLATION DATE: **01/01/1967**
TANK CAPACITY (GAL): **25**
STATUS: **IN USE**
INTERNAL PROTECTION DATE: **NOT REPORTED**
TANK DESIGN SINGLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
NUMBER OF COMPARTMENTS: **1**
REGISTRATION DATE: **12/30/1987**
EMPTY TANK: **NOT EMPTY**
STATUS BEGIN DATE: **01/01/1967**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **162767**
TANK ID: **15**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **25**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**

CORROSION PROTECTION: **NOT REPORTED**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **16**

NUMBER OF COMPARTMENTS: **1**

INSTALLATION DATE: **01/01/1967**

REGISTRATION DATE: **12/30/1987**

TANK CAPACITY (GAL): **25**

EMPTY TANK: **NOT EMPTY**

STATUS: **IN USE**

STATUS BEGIN DATE: **01/01/1967**

INTERNAL PROTECTION DATE: **NOT REPORTED**

REGULATORY STATUS: **EXEMPT**

TANK DESIGN SINGLE WALL: **NO**

TANK DESIGN DOUBLE WALL: **NO**

PIPE DESIGN SINGLE WALL: **NO**

PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:

STEEL

CORROSION PROTECTION:

NOT REPORTED

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **162766**

TANK ID: **16**

COMPARTMENT LETTER: **A**

SUBSTANCES: **HYDRAULIC LIFT OIL**

OTHER SUBSTANCES: **NOT REPORTED**

CAPACITY (GAL): **25**

COMPARTMENT RELEASE DETECTION: **NOT REPORTED**

SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**

CORROSION PROTECTION: **NOT REPORTED**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **17**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1967**
REGISTRATION DATE: **12/30/1987**
TANK CAPACITY (GAL): **25**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **01/01/1967**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **162765**
TANK ID: **17**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **25**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **18**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1967**
REGISTRATION DATE: **12/30/1987**
TANK CAPACITY (GAL): **25**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **01/01/1967**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:

STEEL

CORROSION PROTECTION:

NOT REPORTED

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **162764**

TANK ID: **18**

COMPARTMENT LETTER: **A**

SUBSTANCES: **HYDRAULIC LIFT OIL**

OTHER SUBSTANCES: **NOT REPORTED**

CAPACITY (GAL): **25**

COMPARTMENT RELEASE DETECTION: **NOT REPORTED**

SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**

CORROSION PROTECTION: **NOT REPORTED**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **19**

NUMBER OF COMPARTMENTS: **1**

INSTALLATION DATE: **01/01/1967**

REGISTRATION DATE: **12/30/1987**

TANK CAPACITY (GAL): **25**

EMPTY TANK: **NOT EMPTY**

STATUS: **IN USE**

STATUS BEGIN DATE: **01/01/1967**

INTERNAL PROTECTION DATE: **NOT REPORTED**

REGULATORY STATUS: **EXEMPT**

TANK DESIGN SINGLE WALL: **NO**

TANK DESIGN DOUBLE WALL: **NO**

PIPE DESIGN SINGLE WALL: **NO**

PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:

STEEL

CORROSION PROTECTION:

NOT REPORTED

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **162763**

TANK ID: **19**

COMPARTMENT LETTER: **A**

SUBSTANCES: **HYDRAULIC LIFT OIL**

OTHER SUBSTANCES: **NOT REPORTED**

CAPACITY (GAL): **25**

COMPARTMENT RELEASE DETECTION: **NOT REPORTED**

SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**

CORROSION PROTECTION: **NOT REPORTED**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

ABOVEGROUND STORAGE TANK INFORMATION

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

Resource Conservation & Recovery Act - Non-Generator (RCRANGR06)

MAP ID# 4 **Distance from Property: 0.076 mi. (401 ft.) E**

FACILITY INFORMATION

EPA ID#: **TXD988059911**
NAME: **BLUEBONNET MOTORS INC**
ADDRESS: **315 W SEGUIN AVE**
NEW BRAUNFELS, TX 78130
CONTACT NAME: **NEVEL H EHRHARDT**
CONTACT ADDRESS: **315 N SEGUIN ST**
NEW BRAUNFELS TX 78130
CONTACT PHONE: **512-625-8011**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **08/23/2001**

OWNER TYPE: **NOT REPORTED**
OWNER NAME: **NOT REPORTED**
OPERATOR TYPE: **NOT REPORTED**
OPERATOR NAME: **NOT REPORTED**

CERTIFICATION **- NO CERTIFICATION REPORTED -**
INDUSTRY CLASSIFICATION (NAICS) **- NO NAICS INFORMATION REPORTED -**

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **NON-GENERATOR** LAST UPDATED DATE: **03/25/2004**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**

UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS **- NO EVALUATIONS REPORTED -**
VIOLATIONS **- NO VIOLATIONS REPORTED -**
ENFORCEMENTS **- NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

D001 **IGNITABLE WASTE**

F003 **THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.**

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**

CORRECTIVE ACTION EVENT

NO CORRECTIVE ACTION EVENT(S) REPORTED

Back to Report Summary

MAP ID# 5 **Distance from Property: 0.167 mi. (882 ft.) ESE**

FACILITY INFORMATION

REGISTRATION #: **RN100710094**
CUSTOMER #: **CN602462152**
NAME: **TIP TOP CLEANERS & TUXEDOS**
ADDRESS: **321 W MILL ST**
NEW BRAUNFELS, TX 78130
ACCOUNT NUMBER: **24,000,901**
PRINCIPAL NAME: **HILL COUNTRY CLEANERS INC**
PHONE NUMBER: **830-6256765**
SITE TYPE: **FACILITY REGISTRATION**
FISCAL YEAR: **FY2017**
SOLVENT: **PETROLEUM**
QUANTITY: **302 GALLONS**

FISCAL YEAR: **FY2017**
SOLVENT: **PETROLEUM**
QUANTITY: **302 GALLONS**

FISCAL YEAR: **FY2016**
SOLVENT: **PETROLEUM**
QUANTITY: **516 GALLONS**

FISCAL YEAR: **FY2016**
SOLVENT: **PETROLEUM**
QUANTITY: **516 GALLONS**

FISCAL YEAR: **FY2015**
SOLVENT: **PETROLEUM**
QUANTITY: **424 GALLONS**

FISCAL YEAR: **FY2014**
SOLVENT: **PETROLEUM**
QUANTITY: **407 GALLONS**

FISCAL YEAR: **FY2013**
SOLVENT: **PETROLEUM**
QUANTITY: **435 GALLONS**

FISCAL YEAR: **FY2012**
SOLVENT: **NOT REPORTED**
QUANTITY: **NOT REPORTED**

FISCAL YEAR: **FY2011**
SOLVENT: **PETROLEUM**

QUANTITY: **785 GALLONS**

FISCAL YEAR: **FY2010**
SOLVENT: **PETROLEUM**
QUANTITY: **596 GALLONS**

FISCAL YEAR: **FY2009**
SOLVENT: **PETROLEUM**
QUANTITY: **700 GALLONS**

FISCAL YEAR: **FY2008**
SOLVENT: **PETROLEUM**
QUANTITY: **700 GALLONS**

FISCAL YEAR: **FY2007**
SOLVENT: **PETROLEUM**
QUANTITY: **300 GALLONS**

FISCAL YEAR: **FY2006**
SOLVENT: **PETROLEUM**
QUANTITY: **300 GALLONS**

FISCAL YEAR: **FY2005**
SOLVENT: **PETROLEUM**
QUANTITY: **NOT REPORTED**

FISCAL YEAR: **FY2004**
SOLVENT: **NOT REPORTED**
QUANTITY: **NOT REPORTED**

Back to Report Summary

MAP ID# 5 **Distance from Property: 0.167 mi. (882 ft.) ESE**

FACILITY INFORMATION

REGISTRATION#: **75416** EPA ID: **TXD988019519**
TNRCC ID #: **29769**
NAME: **TIP TOP CLEANERS**
ADDRESS: **321 W MILL ST**
NEW BRAUNFELS, TX 78130
CONTACT: **JOHN NEWTON**
PHONE: **512-6253316**
BUSINESS DESCRIPTION: **THIS REGISTRATION WAS INACTIVATED BECAUSE THERE WERE ONLY 6-DIGIT WASTE CODES ONTHE NOR AND NO WASTE ACTIVITY WAS REPORTED IN 1994, 1995 AND 1996.**
INDUSTRIAL WASTE PERMIT #: **NOT REPORTED**
MUNICIPAL WASTE PERMIT #: **NOT REPORTED**
SIC CODE: **NOT REPORTED**
WASTE GENERATOR: **YES**
WASTE RECEIVER: **NO**
WASTE TRANSPORTER: **NO**
TRANSFER FACILITY: **NO**
MAQUILADORA (MEXICAN FACILITY): **NO**
STATUS: **INACTIVE**
AMOUNT OF WASTE GENERATED: **CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR**
GENERATOR TYPE: **NON-INDUSTRIAL AND/OR MUNICIPAL**
THIS FACILITY IS A NON-NOTIFIER
THIS FACILITY IS A STEERS REPORTER - (STATE OF TEXAS ENVIRONMENTAL ELECTRONIC REPORTING SYSTEM)
THIS FACILITY IS REQUIRED TO SUBMIT AN ANNUAL WASTE REPORT
THIS FACILITY IS INVOLVED IN RECYCLING ACTIVITIES
LAST UPDATE TO TRACS (TCEQ REGULATORY ACTIVITIES AND COMPLIANCE SYSTEM): **06/04/2010**

OWNER INFORMATION

NAME: **TIP TOP CLEANERS**
ADDRESS: **321 W MILL ST**
NEW BRAUNFELS, TX 78130
PHONE: **1-512-6253316**

ACTIVITIES

ACTIVITY TYPE: **UNKNOWN**
ACTIVITY DESCRIPTION: **NOT REPORTED**

WASTE

WASTE ID: **57802**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **YES**
GENERATOR'S DESCRIPTION OF WASTE: **NOT REPORTED**

Back to Report Summary

MAP ID# 6 **Distance from Property: 0.176 mi. (929 ft.) ESE**

FACILITY INFORMATION

REGISTRATION#: **69116** EPA ID: **TXD026876524**
TNRCC ID #: **24016**
NAME: **KRUEGER CHEVROLET**
ADDRESS: **386 SAN ANTONIO**
NEW BRAUNFELS, TX 78130
CONTACT: **JACK KRUEGER**
PHONE: **512-6253451**
BUSINESS DESCRIPTION: **THIS REGISTRATION WAS INACTIVATED BECAUSE THIS FACILITY WAS REGISTERED PRIOR TO1995 AND NO WASTE ACTIVITY WAS REPORTED IN 1995,1996 AND 1997.**
INDUSTRIAL WASTE PERMIT #: **NOT REPORTED**
MUNICIPAL WASTE PERMIT #: **NOT REPORTED**
SIC CODE: **NOT REPORTED**
WASTE GENERATOR: **YES**
WASTE RECEIVER: **NO**
WASTE TRANSPORTER: **NO**
TRANSFER FACILITY: **NO**
MAQUILADORA (MEXICAN FACILITY): **NO**
STATUS: **INACTIVE**
AMOUNT OF WASTE GENERATED: **CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR**
GENERATOR TYPE: **NON-INDUSTRIAL AND/OR MUNICIPAL**
THIS FACILITY IS A NON-NOTIFIER
THIS FACILITY IS A STEERS REPORTER - (STATE OF TEXAS ENVIRONMENTAL ELECTRONIC REPORTING SYSTEM)
THIS FACILITY IS REQUIRED TO SUBMIT AN ANNUAL WASTE REPORT
THIS FACILITY IS INVOLVED IN RECYCLING ACTIVITIES
LAST UPDATE TO TRACS (TCEQ REGULATORY ACTIVITIES AND COMPLIANCE SYSTEM): **09/09/2003**

OWNER INFORMATION

NAME: **KRUEGER CHEVROLET INC**
ADDRESS: **386 W SAN ANTONIO ST**
NEW BRAUNFELS, TX 78130
PHONE: **1-512-6253451**

ACTIVITIES

ACTIVITY TYPE: **UNKNOWN**
ACTIVITY DESCRIPTION: **NOT REPORTED**

WASTE

NO RECORDS

Back to Report Summary

MAP ID# 6 **Distance from Property: 0.176 mi. (929 ft.) ESE**

FACILITY INFORMATION

GEOSEARCH ID: **098584**
LPST ID: **098584**
FACILITY ID: **NOT REPORTED**
NAME: **DON MAXWELL CHEVROLET**
ADDRESS: **386 W SAN ANTONIO ST**
NEW BRAUNFELS, TX

LEAKING TANK DETAILS

LPST ID: **098584**
NAME: **DON MAXWELL CHEVROLET**
FACILITY LOCATION: **NOT REPORTED**
PRIORITY CODE: **4A - SOIL CONTAMINATION ONLY REQUIRES FULL SITE ASSESSMENT RAP**
CORRECTIVE ACTION STATUS CODE: **6A - FINAL CONCURRENCE ISSUED**
CORRECTIVE ACTION START DATE: **4/12/1991**
REPORTED DATE: **4/11/1991**
ENTERED DATE: **4/12/1991**

PRP INFORMATION

NAME: **DON MAXWELL CHEVROLET**
ADDRESS: **ADDRESS NOT REPORTED**
NEW BRAUNFELS TX 78130
CONTACT: **NOT REPORTED**
PHONE: **NOT REPORTED**

UNDERGROUND STORAGE TANK

NO UNDERGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

ABOVEGROUND STORAGE TANK INFORMATION

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

MAP ID# 6 **Distance from Property: 0.176 mi. (929 ft.) ESE**

FACILITY INFORMATION

ID#: **12011**
NAME: **RHOADS INTERIORS**
ADDRESS: **386 W SAN ANTONIO ST**
NEW BRAUNFELS, TX 78130
COUNTY: **COMAL**
REGION: **13**
TYPE: **RETAIL**
BEGIN DATE: **07/30/1986**
STATUS: **INACTIVE**
EXEMPT STATUS: **NO**
RECORDS OFF-SITE: **NO**
NUMBER OF ACTIVE UNDERGROUND TANKS: **NOT REPORTED**
NUMBER OF ACTIVE ABOVEGROUND TANKS: **NOT REPORTED**

APPLICATION INFORMATION:

RECEIVED DATE ON EARLIEST REGISTRATION FORM: **05/08/1986**
SIGNATURE DATE ON EARLIEST REGISTRATION FORM: **04/16/1986**
SIGNATURE NAME & TITLE: **J A KRUEGER, PRESIDENT**
ENFORCEMENT ACTION DATE: **NOT REPORTED**

CONTACT INFORMATION

NAME: **DENNIS RHOADS**
TITLE: **NOT REPORTED**
ORGANIZATION: **RHOADS INTERIORS**
MAIL ADDRESS: **MAILING ADDRESS NOT REPORTED**
CITY NOT REPORTED
PHONE: **(830) 6253477 0**

OWNER

OWNER NUMBER: **CN601009517**
NAME: **KRUEGER JACK A**
CONTACT ADDRESS: **OWNER ADDRESS NOT REPORTED**
CITY NOT REPORTED
TYPE: **ORGANIZATION**
BEGIN DATE: **12/01/1997**
CONTACT ROLE: **NOT REPORTED**
CONTACT NAME: **NOT REPORTED**
CONTACT TITLE: **NOT REPORTED**
ORGANIZATION: **NOT REPORTED**
PHONE: **NOT REPORTED**
FAX: **NOT REPORTED**
EMAIL: **NOT REPORTED**

OPERATOR

NO OPERATOR INFORMATION REPORTED

SELF-CERTIFICATION

-**NO SELF-CERTIFICATION INFORMATION REPORTED-**

CONSTRUCTION NOTIFICATION

NO CONSTRUCTION NOTIFICATION DATA REPORTED FOR THIS FACILITY

UNDERGROUND STORAGE TANK

TANK ID: **1**
INSTALLATION DATE: **01/01/1956**
TANK CAPACITY (GAL): **4000**
NUMBER OF COMPARTMENTS: **1**
REGISTRATION DATE: **05/08/1986**
EMPTY TANK: **NOT EMPTY**

STATUS: **REMOVED FROM GROUND**
STATUS BEGIN DATE: **01/25/1991**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **47022**
TANK ID: **1**
COMPARTMENT LETTER: **A**
SUBSTANCES: **EMPTY**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **4000**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **2**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1936**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **4000**
EMPTY TANK: **NOT EMPTY**
STATUS: **REMOVED FROM GROUND**
STATUS BEGIN DATE: **01/25/1991**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:

NOT REPORTED

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **47024**

TANK ID: **2**

COMPARTMENT LETTER: **A**

SUBSTANCES: **EMPTY**

OTHER SUBSTANCES: **NOT REPORTED**

CAPACITY (GAL): **4000**

COMPARTMENT RELEASE DETECTION: **NOT REPORTED**

SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**

CORROSION PROTECTION: **NOT REPORTED**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **3**

NUMBER OF COMPARTMENTS: **1**

INSTALLATION DATE: **01/01/1956**

REGISTRATION DATE: **05/08/1986**

TANK CAPACITY (GAL): **4000**

EMPTY TANK: **NOT EMPTY**

STATUS: **REMOVED FROM GROUND**

STATUS BEGIN DATE: **01/25/1991**

INTERNAL PROTECTION DATE: **NOT REPORTED**

REGULATORY STATUS: **FULLY REGULATED**

TANK DESIGN SINGLE WALL: **NO**

TANK DESIGN DOUBLE WALL: **NO**

PIPE DESIGN SINGLE WALL: **NO**

PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:

STEEL

CORROSION PROTECTION:

NOT REPORTED

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **47023**

TANK ID: **3**

COMPARTMENT LETTER: **A**
SUBSTANCES: **EMPTY**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **4000**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **4**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1972**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **99**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **01/01/1972**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **47027**
TANK ID: **4**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **99**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **4A**

NUMBER OF COMPARTMENTS: **1**

INSTALLATION DATE: **08/31/1987**

REGISTRATION DATE: **05/08/1986**

TANK CAPACITY (GAL): **4000**

EMPTY TANK: **NOT EMPTY**

STATUS: **REMOVED FROM GROUND**

STATUS BEGIN DATE: **01/25/1991**

INTERNAL PROTECTION DATE: **NOT REPORTED**

REGULATORY STATUS: **FULLY REGULATED**

TANK DESIGN SINGLE WALL: **NO**

TANK DESIGN DOUBLE WALL: **NO**

PIPE DESIGN SINGLE WALL: **NO**

PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:

STEEL

CORROSION PROTECTION:

NOT REPORTED

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **47026**

TANK ID: **4A**

COMPARTMENT LETTER: **A**

SUBSTANCES: **EMPTY**

OTHER SUBSTANCES: **NOT REPORTED**

CAPACITY (GAL): **4000**

COMPARTMENT RELEASE DETECTION: **NOT REPORTED**

SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**

CORROSION PROTECTION: **NOT REPORTED**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **5**

NUMBER OF COMPARTMENTS: **1**

INSTALLATION DATE: **01/01/1972**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **99**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **01/01/1972**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **47028**
TANK ID: **5**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **99**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **5A**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **08/31/1987**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **250**
EMPTY TANK: **NOT EMPTY**
STATUS: **REMOVED FROM GROUND**
STATUS BEGIN DATE: **01/25/1991**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:

STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**
COMPARTMENT DETAILS
UST COMPARTMENT ID: **47025**
TANK ID: **5A**
COMPARTMENT LETTER: **A**
SUBSTANCES: **EMPTY**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **250**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**
PIPING SYSTEMS
MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **6**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1966**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **35**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **01/01/1966**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS
MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**
COMPARTMENT DETAILS

UST COMPARTMENT ID: **47030**
TANK ID: **6**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **35**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **7**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1956**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **35**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **01/01/1956**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **47029**
TANK ID: **7**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **35**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **8**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1956**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **35**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **01/01/1956**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS
MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**
COMPARTMENT DETAILS
UST COMPARTMENT ID: **47034**
TANK ID: **8**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **35**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**
PIPING SYSTEMS
MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **9**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1956**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **35**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **01/01/1956**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **47033**
TANK ID: **9**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **35**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **10**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1956**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **35**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **01/01/1956**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **47032**
TANK ID: **10**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **35**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **11**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1966**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **35**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **01/01/1966**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **47031**
TANK ID: **11**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **35**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **12**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1966**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **35**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **01/01/1966**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **47038**
TANK ID: **12**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **35**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**

CORROSION PROTECTION: **NOT REPORTED**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **13**

NUMBER OF COMPARTMENTS: **1**

INSTALLATION DATE: **01/01/1966**

REGISTRATION DATE: **05/08/1986**

TANK CAPACITY (GAL): **35**

EMPTY TANK: **NOT EMPTY**

STATUS: **IN USE**

STATUS BEGIN DATE: **01/01/1966**

INTERNAL PROTECTION DATE: **NOT REPORTED**

REGULATORY STATUS: **EXEMPT**

TANK DESIGN SINGLE WALL: **NO**

TANK DESIGN DOUBLE WALL: **NO**

PIPE DESIGN SINGLE WALL: **NO**

PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:

STEEL

CORROSION PROTECTION:

NOT REPORTED

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **47037**

TANK ID: **13**

COMPARTMENT LETTER: **A**

SUBSTANCES: **HYDRAULIC LIFT OIL**

OTHER SUBSTANCES: **NOT REPORTED**

CAPACITY (GAL): **35**

COMPARTMENT RELEASE DETECTION: **NOT REPORTED**

SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**

CORROSION PROTECTION: **NOT REPORTED**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **14**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1966**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **35**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **01/01/1966**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **47036**
TANK ID: **14**
COMPARTMENT LETTER: **A**
SUBSTANCES: **HYDRAULIC LIFT OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **35**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **15**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1966**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **35**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **01/01/1966**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **EXEMPT**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:

STEEL

CORROSION PROTECTION:

NOT REPORTED

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **47035**

TANK ID: **15**

COMPARTMENT LETTER: **A**

SUBSTANCES: **HYDRAULIC LIFT OIL**

OTHER SUBSTANCES: **NOT REPORTED**

CAPACITY (GAL): **35**

COMPARTMENT RELEASE DETECTION: **NOT REPORTED**

SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**

CORROSION PROTECTION: **NOT REPORTED**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

ABOVEGROUND STORAGE TANK INFORMATION

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

MAP ID# 7 **Distance from Property: 0.18 mi. (950 ft.) SSW**

FACILITY INFORMATION

ID#: **3679**
NAME: **WHOLESALE BEERS**
ADDRESS: **1197 EIKEL ST**
NEW BRAUNFELS, TX 78130
COUNTY: **COMAL**
REGION: **13**
TYPE: **FLEET REFUELING**
BEGIN DATE: **06/16/1986**
STATUS: **INACTIVE**
EXEMPT STATUS: **NO**
RECORDS OFF-SITE: **NO**
NUMBER OF ACTIVE UNDERGROUND TANKS: **NOT REPORTED**
NUMBER OF ACTIVE ABOVEGROUND TANKS: **NOT REPORTED**

APPLICATION INFORMATION:

RECEIVED DATE ON EARLIEST REGISTRATION FORM: **05/08/1986**
SIGNATURE DATE ON EARLIEST REGISTRATION FORM: **02/11/1986**
SIGNATURE NAME & TITLE: **DENMARK MILLER, WAREHOUSE MANAGER**
ENFORCEMENT ACTION DATE: **NOT REPORTED**

CONTACT INFORMATION

NAME: **DENMARK MILLER**
TITLE: **WAREHOUSE MANAGER**
ORGANIZATION: **WHOLESALE BEERS**
MAIL ADDRESS: **MAILING ADDRESS NOT REPORTED**
CITY NOT REPORTED
PHONE: **(512) 6259162 0**

OWNER

OWNER NUMBER: **CN601381460**
NAME: **WHOLESALE BEERS INC**
CONTACT ADDRESS: **OWNER ADDRESS NOT REPORTED**
CITY NOT REPORTED
TYPE: **CORPORATION/COMPANY**
BEGIN DATE: **06/16/1986**
CONTACT ROLE: **NOT REPORTED**
CONTACT NAME: **NOT REPORTED**
CONTACT TITLE: **NOT REPORTED**
ORGANIZATION: **NOT REPORTED**
PHONE: **NOT REPORTED**
FAX: **NOT REPORTED**
EMAIL: **NOT REPORTED**

OPERATOR

NO OPERATOR INFORMATION REPORTED

SELF-CERTIFICATION

-NO SELF-CERTIFICATION INFORMATION REPORTED-

CONSTRUCTION NOTIFICATION

NO CONSTRUCTION NOTIFICATION DATA REPORTED FOR THIS FACILITY

UNDERGROUND STORAGE TANK

TANK ID: **1**
INSTALLATION DATE: **01/01/1981**
TANK CAPACITY (GAL): **2000**
NUMBER OF COMPARTMENTS: **1**
REGISTRATION DATE: **05/08/1986**
EMPTY TANK: **NOT EMPTY**

STATUS: **REMOVED FROM GROUND**
STATUS BEGIN DATE: **12/16/1988**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **14230**
TANK ID: **1**
COMPARTMENT LETTER: **A**
SUBSTANCES: **GASOLINE**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **2000**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **2**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1981**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **2000**
EMPTY TANK: **NOT EMPTY**
STATUS: **REMOVED FROM GROUND**
STATUS BEGIN DATE: **12/16/1988**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:

NOT REPORTED

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **14229**

TANK ID: **2**

COMPARTMENT LETTER: **A**

SUBSTANCES: **DIESEL**

OTHER SUBSTANCES: **NOT REPORTED**

CAPACITY (GAL): **2000**

COMPARTMENT RELEASE DETECTION: **NOT REPORTED**

SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**

CORROSION PROTECTION: **NOT REPORTED**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

ABOVEGROUND STORAGE TANK INFORMATION

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

Superfund Enterprise Management System Archived Site Inventory (SEMSARCH)

MAP ID# 7 **Distance from Property: 0.18 mi. (950 ft.) SSW**

FACILITY INFORMATION

EPA ID#: **TXD061180253**

SITE ID#: **0602090**

NAME: **CANYON LAKE DISPOSAL SERVICE**

ADDRESS: **1197 EIKEL ST**

NEW BRAUNFELS, TX 78130

COUNTY: **COMAL**

FEDERAL FACILITY: **NOT A FEDERAL FACILITY**

NPL: **NOT ON THE NPL**

NON NPL STATUS: **NFRAP-SITE DOES NOT QUALIFY FOR THE NPL BASED ON EXISTING INFORMATION**

SEMS SEARCH: **CLICK HERE**

Below information was gathered from the prior NFRAP update completed in 10/2013 update:

ACTION	START DATE	COMPLETION DATE	RESPONSIBILITY
SI - SITE INSPECTION	**7/1/1984**	**7/1/1984**	**STATE (FUND)**
PA - PRELIMINARY ASSESSMENT	**3/1/1984**	**3/1/1984**	**STATE (FUND)**
DS - DISCOVERY	**NOT REPORTED**	**11/1/1979**	**EPA FUND**
VS - ARCHIVE SITE	**NOT REPORTED**	**9/5/1995**	**EPA IN-HOUSE**

ACTION DESCRIPTIONS

SI - (SITE INSPECTION) - THE PROCESS OF COLLECTING SITE DATA AND SAMPLES TO CHARACTERIZE THE SEVERITY OF THE HAZARD FOR THE HAZARD RANKING SCORE AND/OR ENFORCEMENT SUPPORT.

PA - (PRELIMINARY ASSESSMENT) - COLLECTION OF DIVERSE EXISTING INFORMATION ABOUT THE SOURCE AND NATURE OF THE SITE HAZARD. IT IS EPA POLICY TO COMPLETE THE PRELIMINARY ASSESSMENT WITHIN ONE YEAR OF SITE DISCOVERY.

DS - (DISCOVERY) - THE PROCESS BY WHICH A POTENTIAL HAZARDOUS WASTE SITE IS BROUGHT TO THE ATTENTION OF THE EPA. THE PROCESS CAN OCCUR THROUGH THE USE OF SEVERAL MECHANISMS SUCH AS A PHONE CALL OR REFERRAL BY ANOTHER GOVERNMENT AGENCY.

VS - (ARCHIVE SITE) - THE DECISION IS MADE THAT NO FURTHER ACTIVITY IS PLANNED AT THE SITE.

Back to Report Summary

MAP ID# 8 **Distance from Property: 0.18 mi. (950 ft.) NNW**

FACILITY INFORMATION

GEOSEARCH ID: **101595**
LPST ID: **101595**
FACILITY ID: **0019317**
NAME: **SOUTHWESTERN BELL SOC NEW BRAUNFELS**
ADDRESS: **726 N WALNUT AVE**
NEW BRAUNFELS, TX

LEAKING TANK DETAILS

LPST ID: **101595**
NAME: **SOUTHWESTERN BELL SOC NEW BRAUNFELS**
FACILITY LOCATION: **NOT REPORTED**
PRIORITY CODE: **4A - SOIL CONTAMINATION ONLY REQUIRES FULL SITE ASSESSMENT RAP**
CORRECTIVE ACTION STATUS CODE: **6A - FINAL CONCURRENCE ISSUED**
CORRECTIVE ACTION START DATE: **1/31/1992**
REPORTED DATE: **1/17/1992**
ENTERED DATE: **1/31/1992**

PRP INFORMATION

NAME: **SOUTHWESTERN BELL TELEPHONE CO**
ADDRESS: **ADDRESS NOT REPORTED**
DALLAS TX 75202
CONTACT: **NOT REPORTED**
PHONE: **NOT REPORTED**

UNDERGROUND STORAGE TANK

TANK ID: **XX1925U**
INSTALLATION DATE: **12/01/1978**
TANK CAPACITY (GAL): **10000**
STATUS: **REMOVED FROM GROUND**
INTERNAL PROTECTION DATE: **NOT REPORTED**
TANK DESIGN SINGLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
NUMBER OF COMPARTMENTS: **1**
REGISTRATION DATE: **05/08/1986**
EMPTY TANK: **NOT EMPTY**
STATUS BEGIN DATE: **11/14/1991**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
FRP
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **113146**
TANK ID: **XX1925U**
COMPARTMENT LETTER: **A**
SUBSTANCES: **GASOLINE**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **10000**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **NOT REPORTED**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
CORROSION PROTECTION: **NOT REPORTED**
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **2**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **12/01/1978**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **250**
EMPTY TANK: **NOT EMPTY**
STATUS: **REMOVED FROM GROUND**
STATUS BEGIN DATE: **11/14/1991**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **YES**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **YES**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
CONCRETE
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **113147**
TANK ID: **2**
COMPARTMENT LETTER: **A**
SUBSTANCES: **USED OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **250**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **NOT REPORTED**

CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
CORROSION PROTECTION: **NOT REPORTED**
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

ABOVEGROUND STORAGE TANK INFORMATION

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

MAP ID# 8 **Distance from Property: 0.18 mi. (950 ft.) NNW**

FACILITY INFORMATION

ID#: **19317**
NAME: **NEW BRAUNFELS WANUT AVE SOC**
ADDRESS: **726 N WALNUT AVE**
NEW BRAUNFELS, TX 78130
COUNTY: **COMAL**
REGION: **13**
TYPE: **FLEET REFUELING**
BEGIN DATE: **09/01/1988**
STATUS: **INACTIVE**
EXEMPT STATUS: **NO**
RECORDS OFF-SITE: **NO**
NUMBER OF ACTIVE UNDERGROUND TANKS: **NOT REPORTED**
NUMBER OF ACTIVE ABOVEGROUND TANKS: **NOT REPORTED**

APPLICATION INFORMATION:

RECEIVED DATE ON EARLIEST REGISTRATION FORM: **05/08/1986**
SIGNATURE DATE ON EARLIEST REGISTRATION FORM: **05/05/1986**
SIGNATURE NAME & TITLE: **G BEAN, ASST SUPV**
ENFORCEMENT ACTION DATE: **NOT REPORTED**

CONTACT INFORMATION

NAME: **R MONTEZ**
TITLE: **SUPV**
ORGANIZATION: **NEW BRAUNFELS WANUT AVE SOC**
MAIL ADDRESS: **MAILING ADDRESS NOT REPORTED**
CITY NOT REPORTED
PHONE: **(512) 8702985 0**

OWNER

OWNER NUMBER: **CN600261663**
NAME: **SOUTHWESTERN BELL TELEPHONE LP**
CONTACT ADDRESS: **OWNER ADDRESS NOT REPORTED**
CITY NOT REPORTED
TYPE: **CORPORATION/COMPANY**
BEGIN DATE: **09/01/1988**
CONTACT ROLE: **NOT REPORTED**
CONTACT NAME: **NOT REPORTED**
CONTACT TITLE: **NOT REPORTED**
ORGANIZATION: **NOT REPORTED**
PHONE: **NOT REPORTED**
FAX: **NOT REPORTED**
EMAIL: **NOT REPORTED**

OPERATOR

NO OPERATOR INFORMATION REPORTED

SELF-CERTIFICATION

-NO SELF-CERTIFICATION INFORMATION REPORTED-

CONSTRUCTION NOTIFICATION

NO CONSTRUCTION NOTIFICATION DATA REPORTED FOR THIS FACILITY

UNDERGROUND STORAGE TANK

TANK ID: **XX1925U**
INSTALLATION DATE: **12/01/1978**
TANK CAPACITY (GAL): **10000**
NUMBER OF COMPARTMENTS: **1**
REGISTRATION DATE: **05/08/1986**
EMPTY TANK: **NOT EMPTY**

STATUS: **REMOVED FROM GROUND**
STATUS BEGIN DATE: **11/14/1991**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
FRP
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **113146**
TANK ID: **XX1925U**
COMPARTMENT LETTER: **A**
SUBSTANCES: **GASOLINE**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **10000**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **NOT REPORTED**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **2**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **12/01/1978**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **250**
EMPTY TANK: **NOT EMPTY**
STATUS: **REMOVED FROM GROUND**
STATUS BEGIN DATE: **11/14/1991**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **YES**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **YES**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
CONCRETE
CORROSION PROTECTION:

NOT REPORTED

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **113147**

TANK ID: **2**

COMPARTMENT LETTER: **A**

SUBSTANCES: **USED OIL**

OTHER SUBSTANCES: **NOT REPORTED**

CAPACITY (GAL): **250**

COMPARTMENT RELEASE DETECTION: **NOT REPORTED**

SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **NOT REPORTED**

CORROSION PROTECTION: **NOT REPORTED**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

ABOVEGROUND STORAGE TANK INFORMATION

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

MAP ID# 9 **Distance from Property: 0.19 mi. (1,003 ft.) NW**

FACILITY INFORMATION

REGISTRATION #: **RN100695139**
CUSTOMER #: **CN602458671**
NAME: **KATHY CLEANERS & ATLERATIONS**
ADDRESS: **377 LANDA ST**
NEW BRAUNFELS, TX 78130-5439
ACCOUNT NUMBER: **24000088**
PRINCIPAL NAME: **DA THAN DINH**
PHONE NUMBER: **NOT REPORTED**
SITE TYPE: **FACILITY REGISTRATION**
FISCAL YEAR: **FY2016**
SOLVENT: **PERCHLOROETHYLENE (TETRACHLOROETHYLENE)**
QUANTITY: **48 GALLONS**

FISCAL YEAR: **FY2016**
SOLVENT: **PERCHLOROETHYLENE (TETRACHLOROETHYLENE)**
QUANTITY: **48 GALLONS**

FISCAL YEAR: **FY2015**
SOLVENT: **PERCHLOROETHYLENE (TETRACHLOROETHYLENE)**
QUANTITY: **32 GALLONS**

FISCAL YEAR: **FY2014**
SOLVENT: **PERCHLOROETHYLENE (TETRACHLOROETHYLENE)**
QUANTITY: **35 GALLONS**

FISCAL YEAR: **FY2013**
SOLVENT: **PERCHLOROETHYLENE (TETRACHLOROETHYLENE)**
QUANTITY: **55 GALLONS**

FISCAL YEAR: **FY2012**
SOLVENT: **PERCHLOROETHYLENE (TETRACHLOROETHYLENE)**
QUANTITY: **71 GALLONS**

FISCAL YEAR: **FY2011**
SOLVENT: **PERCHLOROETHYLENE (TETRACHLOROETHYLENE)**
QUANTITY: **85 GALLONS**

FISCAL YEAR: **FY2010**
SOLVENT: **PERCHLOROETHYLENE (TETRACHLOROETHYLENE)**
QUANTITY: **50 GALLONS**

FISCAL YEAR: **FY2009**
SOLVENT: **PERCHLOROETHYLENE (TETRACHLOROETHYLENE)**

QUANTITY: **90 GALLONS**

FISCAL YEAR: **FY2008**
SOLVENT: **PERCHLOROETHYLENE (TETRACHLOROETHYLENE)**
QUANTITY: **90 GALLONS**

FISCAL YEAR: **FY2007**
SOLVENT: **PERCHLOROETHYLENE (TETRACHLOROETHYLENE)**
QUANTITY: **80 GALLONS**

FISCAL YEAR: **FY2006**
SOLVENT: **PERCHLOROETHYLENE (TETRACHLOROETHYLENE)**
QUANTITY: **60 GALLONS**

FISCAL YEAR: **FY2005**
SOLVENT: **PERCHLOROETHYLENE (TETRACHLOROETHYLENE)**
QUANTITY: **NOT REPORTED**

FISCAL YEAR: **FY2004**
SOLVENT: **NOT REPORTED**
QUANTITY: **NOT REPORTED**

Back to Report Summary

MAP ID# 9 **Distance from Property: 0.19 mi. (1,003 ft.) NW**

FACILITY INFORMATION

REGISTRATION#: **82244** EPA ID: **TXD988087326**
TNRCC ID #: **37435**
NAME: **NEW BRAUNFELS CLEANERS**
ADDRESS: **377 LANDA ST**
NEW BRAUNFELS, TX 78130
CONTACT: **MAUREEN DUNCKEL**
PHONE: **210-6256116**
BUSINESS DESCRIPTION: **THIS REGISTRATION WAS INACTIVATED BECAUSE THE FACILITY WAS REGISTERED PRIOR TO 1995 AND NO WASTE ACTIVITY WAS REPORTED IN 95,96, AND 97.**
INDUSTRIAL WASTE PERMIT #: **NOT REPORTED**
MUNICIPAL WASTE PERMIT #: **NOT REPORTED**
SIC CODE: **NOT REPORTED**
WASTE GENERATOR: **YES**
WASTE RECEIVER: **NO**
WASTE TRANSPORTER: **NO**
TRANSFER FACILITY: **NO**
MAQUILADORA (MEXICAN FACILITY): **NO**
STATUS: **INACTIVE**
AMOUNT OF WASTE GENERATED: **CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR**
GENERATOR TYPE: **NOT REPORTED**
THIS FACILITY IS A NON-NOTIFIER
THIS FACILITY IS A STEERS REPORTER - (STATE OF TEXAS ENVIRONMENTAL ELECTRONIC REPORTING SYSTEM)
THIS FACILITY IS REQUIRED TO SUBMIT AN ANNUAL WASTE REPORT
THIS FACILITY IS INVOLVED IN RECYCLING ACTIVITIES
LAST UPDATE TO TRACS (TCEQ REGULATORY ACTIVITIES AND COMPLIANCE SYSTEM): **06/04/2010**

OWNER INFORMATION

NAME: **NEW BRAUNFELS CLEANERS**
ADDRESS: **377 LANDA ST**
NEW BRAUNFELS, TX 78130
PHONE: **1-210-6256116**

ACTIVITIES

ACTIVITY TYPE: **UNKNOWN**
ACTIVITY DESCRIPTION: **NOT REPORTED**

WASTE

WASTE ID: **83988**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **SPENT TETRACHLOROETHYLENE DRY CLEANING RESIDUE**

WASTE ID: **83990**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **TETRACHLOROETHYLENE CONTAMINATED FILTER FROM PROCESS FILTRATION**

WASTE ID: **83992**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**

WASTE IS TREATED OFF SITE: **NO**

GENERATOR'S DESCRIPTION OF WASTE: **TETRACHLOROETHYLENE CONTAMINATED SLUDGE FROM PROCESS DISTILLATION**

Back to Report Summary

MAP ID# 10 **Distance from Property: 0.197 mi. (1,040 ft.) ESE**

FACILITY INFORMATION

ID#: **23367**
NAME: **402 W SAN ANTONIO**
ADDRESS: **402 W SAN ANTONIO ST**
NEW BRAUNFELS, TX 78130
COUNTY: **COMAL**
REGION: **13**
TYPE: **RETAIL**
BEGIN DATE: **09/25/1986**
STATUS: **INACTIVE**
EXEMPT STATUS: **NO**
RECORDS OFF-SITE: **NO**
NUMBER OF ACTIVE UNDERGROUND TANKS: **NOT REPORTED**
NUMBER OF ACTIVE ABOVEGROUND TANKS: **NOT REPORTED**

APPLICATION INFORMATION:

RECEIVED DATE ON EARLIEST REGISTRATION FORM: **05/08/1986**
SIGNATURE DATE ON EARLIEST REGISTRATION FORM: **04/16/1986**
SIGNATURE NAME & TITLE: **ROGER EBERT, DIV MGR**
ENFORCEMENT ACTION DATE: **NOT REPORTED**

CONTACT INFORMATION

NAME: **NOT REPORTED**
TITLE: **NOT REPORTED**
ORGANIZATION: **NOT REPORTED**
MAIL ADDRESS: **MAILING ADDRESS NOT REPORTED**
CITY NOT REPORTED
PHONE: **NOT REPORTED**

OWNER

OWNER NUMBER: **CN601191083**
NAME: **LOUISE H BUCKER**
CONTACT ADDRESS: **OWNER ADDRESS NOT REPORTED**
CITY NOT REPORTED
TYPE: **ORGANIZATION**
BEGIN DATE: **09/25/1986**
CONTACT ROLE: **NOT REPORTED**
CONTACT NAME: **NOT REPORTED**
CONTACT TITLE: **NOT REPORTED**
ORGANIZATION: **NOT REPORTED**
PHONE: **NOT REPORTED**
FAX: **NOT REPORTED**
EMAIL: **NOT REPORTED**

OPERATOR

NO OPERATOR INFORMATION REPORTED

SELF-CERTIFICATION

-**NO SELF-CERTIFICATION INFORMATION REPORTED-**

CONSTRUCTION NOTIFICATION

NO CONSTRUCTION NOTIFICATION DATA REPORTED FOR THIS FACILITY

UNDERGROUND STORAGE TANK

TANK ID: **1**
INSTALLATION DATE: **01/01/1961**
TANK CAPACITY (GAL): **550**
NUMBER OF COMPARTMENTS: **1**
REGISTRATION DATE: **05/08/1986**
EMPTY TANK: **NOT EMPTY**

STATUS: **REMOVED FROM GROUND**
STATUS BEGIN DATE: **01/01/1986**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **57775**
TANK ID: **1**
COMPARTMENT LETTER: **A**
SUBSTANCES: **USED OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **550**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **2**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1966**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **4000**
EMPTY TANK: **NOT EMPTY**
STATUS: **REMOVED FROM GROUND**
STATUS BEGIN DATE: **01/01/1986**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:

NOT REPORTED

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **57779**

TANK ID: **2**

COMPARTMENT LETTER: **A**

SUBSTANCES: **GASOLINE**

OTHER SUBSTANCES: **NOT REPORTED**

CAPACITY (GAL): **4000**

COMPARTMENT RELEASE DETECTION: **NOT REPORTED**

SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**

CORROSION PROTECTION: **NOT REPORTED**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **3**

NUMBER OF COMPARTMENTS: **1**

INSTALLATION DATE: **01/01/1966**

REGISTRATION DATE: **05/08/1986**

TANK CAPACITY (GAL): **4000**

EMPTY TANK: **NOT EMPTY**

STATUS: **REMOVED FROM GROUND**

STATUS BEGIN DATE: **01/01/1986**

INTERNAL PROTECTION DATE: **NOT REPORTED**

REGULATORY STATUS: **FULLY REGULATED**

TANK DESIGN SINGLE WALL: **NO**

TANK DESIGN DOUBLE WALL: **NO**

PIPE DESIGN SINGLE WALL: **NO**

PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:

STEEL

CORROSION PROTECTION:

NOT REPORTED

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **57778**

TANK ID: **3**

COMPARTMENT LETTER: **A**
SUBSTANCES: **GASOLINE**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **4000**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **4**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1966**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **4000**
EMPTY TANK: **NOT EMPTY**
STATUS: **REMOVED FROM GROUND**
STATUS BEGIN DATE: **01/01/1986**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **57777**
TANK ID: **4**
COMPARTMENT LETTER: **A**
SUBSTANCES: **GASOLINE**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **4000**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **5**

NUMBER OF COMPARTMENTS: **1**

INSTALLATION DATE: **01/01/1966**

REGISTRATION DATE: **05/08/1986**

TANK CAPACITY (GAL): **4000**

EMPTY TANK: **NOT EMPTY**

STATUS: **REMOVED FROM GROUND**

STATUS BEGIN DATE: **01/01/1986**

INTERNAL PROTECTION DATE: **NOT REPORTED**

REGULATORY STATUS: **FULLY REGULATED**

TANK DESIGN SINGLE WALL: **NO**

TANK DESIGN DOUBLE WALL: **NO**

PIPE DESIGN SINGLE WALL: **NO**

PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:

STEEL

CORROSION PROTECTION:

NOT REPORTED

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **57776**

TANK ID: **5**

COMPARTMENT LETTER: **A**

SUBSTANCES: **GASOLINE**

OTHER SUBSTANCES: **NOT REPORTED**

CAPACITY (GAL): **4000**

COMPARTMENT RELEASE DETECTION: **NOT REPORTED**

SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**

CORROSION PROTECTION: **NOT REPORTED**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

ABOVEGROUND STORAGE TANK INFORMATION

Petroleum Storage Tanks (PST)

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

Leaking Petroleum Storage Tanks (LPST)

MAP ID# 11 **Distance from Property: 0.207 mi. (1,093 ft.) NW**

FACILITY INFORMATION

GEOSEARCH ID: **103957**
LPST ID: **103957**
FACILITY ID: **0018398**
NAME: **LANDA PARK WAREHOUSE**
ADDRESS: **164 LANDA PARK DR**
NEW BRAUNFELS, TX

LEAKING TANK DETAILS

LPST ID: **103957**
NAME: **LANDA PARK WAREHOUSE**
FACILITY LOCATION: **NOT REPORTED**
PRIORITY CODE: **5 - MINOR SOIL CONTAMINATION - DOES NOT REQUIRE A RAP**
CORRECTIVE ACTION STATUS CODE: **6A - FINAL CONCURRENCE ISSUED**
CORRECTIVE ACTION START DATE: **9/2/1992**
REPORTED DATE: **7/22/1992**
ENTERED DATE: **9/2/1992**

PRP INFORMATION

NAME: **CITY OF NEW BRAUNFELS**
ADDRESS: **ADDRESS NOT REPORTED**
NEW BRAUNFELS TX 78131
CONTACT: **NOT REPORTED**
PHONE: **NOT REPORTED**

UNDERGROUND STORAGE TANK

TANK ID: **1**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1967**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **550**
EMPTY TANK: **NOT EMPTY**
STATUS: **REMOVED FROM GROUND**
STATUS BEGIN DATE: **07/10/1992**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **YES**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **46216**
TANK ID: **1**
COMPARTMENT LETTER: **A**
SUBSTANCES: **GASOLINE**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **550**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **TIGHT-FILL FITTING CONTAINER/BUCKET/SUMP**

PIPING SYSTEMS

MATERIAL: **NOT REPORTED**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
CORROSION PROTECTION: **NOT REPORTED**
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

ABOVEGROUND STORAGE TANK INFORMATION

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

MAP ID# 11 **Distance from Property: 0.207 mi. (1,093 ft.) NW**

FACILITY INFORMATION

ID#: **18398**
NAME: **LANDA PARK MAINT WAREHOUSE**
ADDRESS: **164 LANDA PARK DR**
NEW BRAUNFELS, TX 78130
COUNTY: **COMAL**
REGION: **13**
TYPE: **FLEET REFUELING**
BEGIN DATE: **09/03/1986**
STATUS: **INACTIVE**
EXEMPT STATUS: **NO**
RECORDS OFF-SITE: **NO**
NUMBER OF ACTIVE UNDERGROUND TANKS: **NOT REPORTED**
NUMBER OF ACTIVE ABOVEGROUND TANKS: **NOT REPORTED**

APPLICATION INFORMATION:

RECEIVED DATE ON EARLIEST REGISTRATION FORM: **05/08/1986**
SIGNATURE DATE ON EARLIEST REGISTRATION FORM: **04/02/1986**
SIGNATURE NAME & TITLE: **CR BODE, DIRECTOR**
ENFORCEMENT ACTION DATE: **NOT REPORTED**

CONTACT INFORMATION

NAME: **JESSE GUERRERO**
TITLE: **NOT REPORTED**
ORGANIZATION: **LANDA PARK MAINT WAREHOUSE**
MAIL ADDRESS: **MAILING ADDRESS NOT REPORTED**
CITY NOT REPORTED
PHONE: **(210) 6253425 0**

OWNER

OWNER NUMBER: **CN600722102**
NAME: **CITY OF NEW BRAUNFELS**
CONTACT ADDRESS: **OWNER ADDRESS NOT REPORTED**
CITY NOT REPORTED
TYPE: **OTHER GOVERNMENT**
BEGIN DATE: **09/03/1986**
CONTACT ROLE: **NOT REPORTED**
CONTACT NAME: **NOT REPORTED**
CONTACT TITLE: **NOT REPORTED**
ORGANIZATION: **NOT REPORTED**
PHONE: **NOT REPORTED**
FAX: **NOT REPORTED**
EMAIL: **NOT REPORTED**

OPERATOR

NO OPERATOR INFORMATION REPORTED

SELF-CERTIFICATION

-**NO SELF-CERTIFICATION INFORMATION REPORTED-**

CONSTRUCTION NOTIFICATION

NO CONSTRUCTION NOTIFICATION DATA REPORTED FOR THIS FACILITY

UNDERGROUND STORAGE TANK

TANK ID: **1**
INSTALLATION DATE: **01/01/1967**
TANK CAPACITY (GAL): **550**
NUMBER OF COMPARTMENTS: **1**
REGISTRATION DATE: **05/08/1986**
EMPTY TANK: **NOT EMPTY**

STATUS: **REMOVED FROM GROUND**
STATUS BEGIN DATE: **07/10/1992**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **YES**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **46216**
TANK ID: **1**
COMPARTMENT LETTER: **A**
SUBSTANCES: **GASOLINE**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **550**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **TIGHT-FILL FITTING CONTAINER/BUCKET/SUMP**

PIPING SYSTEMS

MATERIAL: **NOT REPORTED**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

ABOVEGROUND STORAGE TANK INFORMATION

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

MAP ID# 12 **Distance from Property: 0.212 mi. (1,119 ft.) W**

FACILITY INFORMATION

REGISTRATION#: **52031** EPA ID: **TXD988047866**

TNRCC ID #: **18899**

NAME: **HENRY & SONS CONSTRUCTION MAINTENANCE YARD**

ADDRESS: **631 BAVARIAN DR**
NEW BRAUNFELS, TX 78130

CONTACT: **GERARDO MOLINA**

PHONE: **830-6204000**

OWNER INFORMATION

NAME: **HENRY & SONS CONSTRUCTION COMPANY INC**

ADDRESS: **3150 S INTERSTATE 35**
NEW BRAUNFELS, TX 78130

PHONE: **1-830-6204000**

BUSINESS DESCRIPTION: **MAINTENANCE YARD FOR SCHLITTERBAHN WATER PARK**

INDUSTRIAL WASTE PERMIT #: **NOT REPORTED**

MUNICIPAL WASTE PERMIT #: **NOT REPORTED**

SIC CODE: **NOT REPORTED**

WASTE GENERATOR: **YES**

WASTE RECEIVER: **NO**

WASTE TRANSPORTER: **NO**

TRANSFER FACILITY: **NO**

MAQUILADORA (MEXICAN FACILITY): **NO**

STATUS: **ACTIVE**

AMOUNT OF WASTE GENERATED: **CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR**

GENERATOR TYPE: **NON-INDUSTRIAL AND/OR MUNICIPAL**

THIS FACILITY IS A NON-NOTIFIER

THIS FACILITY IS A STEERS REPORTER - (STATE OF TEXAS ENVIRONMENTAL ELECTRONIC REPORTING SYSTEM)

THIS FACILITY IS REQUIRED TO SUBMIT AN ANNUAL WASTE REPORT

THIS FACILITY IS INVOLVED IN RECYCLING ACTIVITIES

LAST UPDATE TO TRACS (TCEQ REGULATORY ACTIVITIES AND COMPLIANCE SYSTEM): **02/19/2015**

ACTIVITIES

ACTIVITY TYPE: **UNKNOWN**

ACTIVITY DESCRIPTION: **NOT REPORTED**

WASTE

WASTE ID: **328769**

WASTE CODE STATUS: **ACTIVE**

WASTE IS RADIOACTIVE: **NO**

WASTE IS TREATED OFF SITE: **YES**

GENERATOR'S DESCRIPTION OF WASTE: **PART 1 OF REACTIVE MIXTURE CONTAINING DIETHYL TOLUENE DIAMINE. REMOVED DURING B**

WASTE ID: **328797**

WASTE CODE STATUS: **ACTIVE**

WASTE IS RADIOACTIVE: **NO**

WASTE IS TREATED OFF SITE: **YES**

GENERATOR'S DESCRIPTION OF WASTE: **SOLID ORGANIC PEROXIDE. REMOVED DURING BAVARIAN LOCATION CLEANUP.**

WASTE ID: **328798**

WASTE CODE STATUS: **ACTIVE**

WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **YES**
GENERATOR'S DESCRIPTION OF WASTE: **MIXED EMPTY AND PARTLY EMPTY CONTAINERS OF NON-HAZARDOUS EXPIRED AND UNUSABLE MA**

WASTE ID: **326482**
WASTE CODE STATUS: **ACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **OILY WATER FROM CONDENSATION AND/OR RAIN WATER COLLECTION IN EMPTY OIL BARRELS.**

WASTE ID: **326471**
WASTE CODE STATUS: **ACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **SUPER BLUE AQUEOUS CLEANER. NON-HAZARDOUS.**

WASTE ID: **326472**
WASTE CODE STATUS: **ACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **USED OIL SORBENT AND USED OIL FILTERS.**

WASTE ID: **326473**
WASTE CODE STATUS: **ACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **ANTIFREEZE WASTE.**

WASTE ID: **326474**
WASTE CODE STATUS: **ACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **WASTE OIL.RECYCLED.**

WASTE ID: **157484**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **NON - REGULATED MATERIAL, OIL WITH ABSORBENT. NO. EPA #. WASTE INACTIVATED DUE**

WASTE ID: **157485**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **DBE, SPENT. RW, WASTE FLAMMABLE LIQUIDS, N. O. S. (DIBASIC ESTER, RESIN) 3, UN1**

WASTE ID: **127534**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**

WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **SOLVENT RECOVERY SLUDGE (SOLIDS) STILL BOTTOMS, ORGANIC FROM WASTE PAINT SOLVENT**

WASTE ID: **127535**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **WASTE PAINT SOLVENT, CLEANING PAINT EQUIPMENT; 7/91. ALSO, POSSIBLE ACETONE, ME**

WASTE ID: **157486**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **NON - REGULATED MATERIAL, OIL FILTERS. NO. EPA #.**

WASTE ID: **159801**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **WASTE ACIDS (STAINS), LIQUID FORM.**

WASTE ID: **156726**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **LIQUID MEKP GONE BAD W/POSSIBLE SMALL AMTS OF DYE.**

WASTE ID: **159803**
WASTE CODE STATUS: **ACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **PLANT OFFICE TRASH AT 631 BAVARIAN DR.**

WASTE ID: **165953**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **XYLENE WASTE.**

WASTE ID: **165952**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **ACETONE WASTE.**

WASTE ID: **165951**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **MEK WASTE.**

WASTE ID: **166767**

WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **YES**
GENERATOR'S DESCRIPTION OF WASTE: **OIL FILTERS AND OIL ABSORBENT WASTE.**

WASTE ID: **172066**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **SAND BLASTING WASTE. SAN BLAST OPERATION TO CLEAN STEEL STRUCTURES. INITIAL DA**

WASTE ID: **181793**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **YES**
GENERATOR'S DESCRIPTION OF WASTE: **PAINT WASTE.**

WASTE ID: **180163**
WASTE CODE STATUS: **ACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **PLANT PRODUCTION TRASH**

WASTE ID: **180164**
WASTE CODE STATUS: **ACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **YES**
GENERATOR'S DESCRIPTION OF WASTE: **FLAMMABLE LIQUIDS; SOLVENT FLUSH**

WASTE ID: **180747**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **WATER CONTAMINTED WITH 1170.**

WASTE ID: **183270**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **B-2000 WASTE.**

WASTE ID: **203664**
WASTE CODE STATUS: **ACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **RESIN/GELCOAT WASTE FLAMMABLE LIQUID**

WASTE ID: **188033**
WASTE CODE STATUS: **ACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **FLAMMABLE LIQUIDS, N.O.S., 3, UNL993, PGI. (POSSIBLE MIXED ACETONE, MEK,**

XYLENE

WASTE ID: **188034**
WASTE CODE STATUS: **ACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **WASTE CORROSIEVE LIQUID, N.O.S., 8, UNL760, PGII. (WASTE ACIDS -STAINS LIQUID)**

WASTE ID: **188181**
WASTE CODE STATUS: **ACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **XYLENES, 3, UN1307, II, III AND/ OR XYLENE/XYLENOLS, 6.1, UN2261, II**

WASTE ID: **188035**
WASTE CODE STATUS: **ACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **ACETONE, N.O.S., 3, UNL090, PGII.**

WASTE ID: **188036**
WASTE CODE STATUS: **ACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **METHYL ETHYL KETONE, N.O.S., 3, UNL193, PG11.**

WASTE ID: **188037**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **WASTE PAINT RELATED MATERIAL 3, UN1263, PG111. (PAINT WASTE)**

WASTE ID: **188038**
WASTE CODE STATUS: **ACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **NON-REGULATED PARTS WASHER SOLVENT. NON-RCRA REGULATED. (B-2000)**

WASTE ID: **194115**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **NON-REGULATED WASTE OIL.**

WASTE ID: **196461**
WASTE CODE STATUS: **ACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **WASTE FLAMMABLE LIQUIDS, N.O.S. 3 UN1993 PG:III RQ: (D001) (NAPHTHA PETROLEUM),**

WASTE ID: **203665**
WASTE CODE STATUS: **ACTIVE**

WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **DIESEL AND OIL/ABSORBENT**

WASTE ID: **196191**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **CAUSTIC AQUEOUS WASTE - ONE TIME SHIPMENT - UNUSED PRODUCTS. 8/1/2002**

WASTE ID: **196192**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **OTHER ORGANIC LIQUID - ONE TIME SHIPMENT - UNUSED PRODUCT. 8/1/2002.**

WASTE ID: **196193**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **REACTIVE OR POLYMERIZABLE ORGANIC LIQUID - ONE TIME SHIPMENT - UNUSED PRODUCT. 8**

WASTE ID: **201566**
WASTE CODE STATUS: **ACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **REACTIVE/POLYMERIZABLE ORGANIC LIQUID - UNUSED MATERIAL**

WASTE ID: **300363**
WASTE CODE STATUS: **NOT REPORTED**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **NOT REPORTED**

WASTE ID: **300525**
WASTE CODE STATUS: **NOT REPORTED**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **NOT REPORTED**

WASTE ID: **302010**
WASTE CODE STATUS: **NOT REPORTED**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **NOT REPORTED**

WASTE ID: **43942**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **NOT REPORTED**

WASTE ID: **43943**

WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **NOT REPORTED**

WASTE ID: **43944**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **NOT REPORTED**

WASTE ID: **43945**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **NOT REPORTED**

WASTE ID: **43946**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **NOT REPORTED**

WASTE ID: **43947**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **NOT REPORTED**

WASTE ID: **43948**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **NOT REPORTED**

WASTE ID: **43949**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **NOT REPORTED**

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Industrial and Hazardous Waste Corrective Action Sites (IHWCA)

MAP ID# 13 **Distance from Property: 0.228 mi. (1,204 ft.) NNW**

PROGRAM ID: **T2453**
RN NUMBER: **RN105929384**
NAME: **LANDA PLAZA SHOPPING CENTER**
ADDRESS: **315 LANDA ST**
NEW BRAUNFELS, TX 78130
STATUS: **INACTIVE**
STATUS DATE: **9/21/2010**
LOCATION DESCRIPTION:
NOT REPORTED

Back to Report Summary

Innocent Owner / Operator Database (IOP)

MAP ID# 13 **Distance from Property: 0.228 mi. (1,204 ft.) NNW**

FACILITY INFORMATION

ID#: **0751**
DATE IOP RECIEVED: **6/22/2010**
CERTIFICATE ISSUED: **9/9/2010**
NAME: **LAND PLAZA SHOPPING CENTER**
ADDRESS: **315 LANDA STREET**
NEW BRAUNFELS, TX 78163
CONTAMINANTS: **VOCS,TPH**
MEDIA AFFECTED: **SOIL, GROUNDWATER**
PHASE: **COMPLETED**
PROPERTY USE: **SHOPPING CENTER**
ACRES: **8**

OTHER CONTACTS (CONSULTANT/ATTORNEY)

ORGANIZATION: **TERRACON CONSULTANTS, INC.**
LEE GARRETT, P.G. PROJECT MANAGER
6911 BLANCO ROAD
SAN ANTONIO TX 78216
PHONE: **713-690-8989** FAX: **713-690-2055**

APPLICANT INFORMATION

ORGANIZATION: **LANDA PLAZA PARTNERS GP, LLC**
LEE GARRETT, P.G., MANAGING
ADDRESS: **700 LAVACA #740**
AUSTIN, TX, 78701
INTEREST IN SITE: **OWNER**
PHONE: **512-478-7165** FAX: **512-478-0716**

Back to Report Summary

MAP ID# 14 **Distance from Property: 0.229 mi. (1,209 ft.) SE**

FACILITY INFORMATION

GEOSEARCH ID: **091287**
LPST ID: **091287**
FACILITY ID: **NOT REPORTED**
NAME: **HANZ SERVICE STATION**
ADDRESS: **630 W SAN ANTONIO ST**
NEW BRAUNFELS, TX

LEAKING TANK DETAILS

LPST ID: **091287**
NAME: **HANZ SERVICE STATION**
FACILITY LOCATION: **NOT REPORTED**
PRIORITY CODE: **4A - SOIL CONTAMINATION ONLY REQUIRES FULL SITE ASSESSMENT RAP**
CORRECTIVE ACTION STATUS CODE: **6A - FINAL CONCURRENCE ISSUED**
CORRECTIVE ACTION START DATE: **4/24/1987**
REPORTED DATE: **4/24/1987**
ENTERED DATE: **4/24/1987**

PRP INFORMATION

NAME: **HANZ, FRED**
ADDRESS: **ADDRESS NOT REPORTED**
NEW BRAUNFELS TX 78130
CONTACT: **NOT REPORTED**
PHONE: **NOT REPORTED**

UNDERGROUND STORAGE TANK

NO UNDERGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

ABOVEGROUND STORAGE TANK INFORMATION

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

MAP ID# 14 **Distance from Property: 0.229 mi. (1,209 ft.) SE**

FACILITY INFORMATION

ID#: **40759**
NAME: **HANZ SERVICE STATION**
ADDRESS: **630 W SAN ANTONIO ST**
NEW BRAUNFELS, TX 78130
COUNTY: **COMAL**
REGION: **13**
TYPE: **RETAIL**
BEGIN DATE: **01/19/1987**
STATUS: **INACTIVE**
EXEMPT STATUS: **NO**
RECORDS OFF-SITE: **NO**
NUMBER OF ACTIVE UNDERGROUND TANKS: **NOT REPORTED**
NUMBER OF ACTIVE ABOVEGROUND TANKS: **NOT REPORTED**

APPLICATION INFORMATION:

RECEIVED DATE ON EARLIEST REGISTRATION FORM: **05/08/1986**
SIGNATURE DATE ON EARLIEST REGISTRATION FORM: **05/07/1986**
SIGNATURE NAME & TITLE: **FRED HANZ, CO-OWNER**
ENFORCEMENT ACTION DATE: **NOT REPORTED**

CONTACT INFORMATION

NAME: **CAROL MARBACK**
TITLE: **CO-OWNER**
ORGANIZATION: **HANZ SERVICE STATION**
MAIL ADDRESS: **MAILING ADDRESS NOT REPORTED**
CITY NOT REPORTED
PHONE: **(512) 6253563 0**

OWNER

OWNER NUMBER: **CN601208192**
NAME: **FRED HANZ AND CAROLE MARBACK**
CONTACT ADDRESS: **OWNER ADDRESS NOT REPORTED**
CITY NOT REPORTED
TYPE: **ORGANIZATION**
BEGIN DATE: **01/19/1987**
CONTACT ROLE: **NOT REPORTED**
CONTACT NAME: **NOT REPORTED**
CONTACT TITLE: **NOT REPORTED**
ORGANIZATION: **NOT REPORTED**
PHONE: **NOT REPORTED**
FAX: **NOT REPORTED**
EMAIL: **NOT REPORTED**

OPERATOR

NO OPERATOR INFORMATION REPORTED

SELF-CERTIFICATION

-**NO SELF-CERTIFICATION INFORMATION REPORTED-**

CONSTRUCTION NOTIFICATION

NO CONSTRUCTION NOTIFICATION DATA REPORTED FOR THIS FACILITY

UNDERGROUND STORAGE TANK

TANK ID: **A**
INSTALLATION DATE: **08/31/1987**
TANK CAPACITY (GAL): **550**
NUMBER OF COMPARTMENTS: **1**
REGISTRATION DATE: **05/08/1986**
EMPTY TANK: **NOT EMPTY**

STATUS: **PERM FILLED IN PLACE**
STATUS BEGIN DATE: **08/31/1987**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **95678**
TANK ID: **A**
COMPARTMENT LETTER: **A**
SUBSTANCES: **GASOLINE**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **NOT REPORTED**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **B**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **08/31/1987**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **550**
EMPTY TANK: **NOT EMPTY**
STATUS: **PERM FILLED IN PLACE**
STATUS BEGIN DATE: **08/31/1987**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:

NOT REPORTED

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **95680**

TANK ID: **B**

COMPARTMENT LETTER: **A**

SUBSTANCES: **GASOLINE**

OTHER SUBSTANCES: **NOT REPORTED**

CAPACITY (GAL): **NOT REPORTED**

COMPARTMENT RELEASE DETECTION: **NOT REPORTED**

SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**

CORROSION PROTECTION: **NOT REPORTED**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **C**

NUMBER OF COMPARTMENTS: **1**

INSTALLATION DATE: **08/31/1987**

REGISTRATION DATE: **05/08/1986**

TANK CAPACITY (GAL): **1000**

EMPTY TANK: **NOT EMPTY**

STATUS: **PERM FILLED IN PLACE**

STATUS BEGIN DATE: **08/31/1987**

INTERNAL PROTECTION DATE: **NOT REPORTED**

REGULATORY STATUS: **FULLY REGULATED**

TANK DESIGN SINGLE WALL: **NO**

TANK DESIGN DOUBLE WALL: **NO**

PIPE DESIGN SINGLE WALL: **NO**

PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:

STEEL

CORROSION PROTECTION:

NOT REPORTED

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **95679**

TANK ID: **C**

COMPARTMENT LETTER: **A**
SUBSTANCES: **GASOLINE**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **NOT REPORTED**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **D**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **08/31/1987**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **550**
EMPTY TANK: **NOT EMPTY**
STATUS: **PERM FILLED IN PLACE**
STATUS BEGIN DATE: **08/31/1987**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **95682**
TANK ID: **D**
COMPARTMENT LETTER: **A**
SUBSTANCES: **GASOLINE**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **NOT REPORTED**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **E**

NUMBER OF COMPARTMENTS: **1**

INSTALLATION DATE: **08/31/1987**

REGISTRATION DATE: **05/08/1986**

TANK CAPACITY (GAL): **550**

EMPTY TANK: **NOT EMPTY**

STATUS: **PERM FILLED IN PLACE**

STATUS BEGIN DATE: **08/31/1987**

INTERNAL PROTECTION DATE: **NOT REPORTED**

REGULATORY STATUS: **FULLY REGULATED**

TANK DESIGN SINGLE WALL: **NO**

TANK DESIGN DOUBLE WALL: **NO**

PIPE DESIGN SINGLE WALL: **NO**

PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:

STEEL

CORROSION PROTECTION:

NOT REPORTED

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **95681**

TANK ID: **E**

COMPARTMENT LETTER: **A**

SUBSTANCES: **GASOLINE**

OTHER SUBSTANCES: **NOT REPORTED**

CAPACITY (GAL): **NOT REPORTED**

COMPARTMENT RELEASE DETECTION: **NOT REPORTED**

SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**

CORROSION PROTECTION: **NOT REPORTED**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

ABOVEGROUND STORAGE TANK INFORMATION

Petroleum Storage Tanks (PST)

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

MAP ID# 15 **Distance from Property: 0.241 mi. (1,272 ft.) ESE**

FACILITY INFORMATION

REGISTRATION#: **66462** EPA ID: **TXD149980799**
TNRCC ID #: **21736**
NAME: **GOODYEAR SERVICE STORE 4756**
ADDRESS: **417 W SAN ANTONIO ST**
NEW BRAUNFELS, TX 78130
CONTACT: **RUDY SCHREYER**
PHONE: **NOT REPORTED**

OWNER INFORMATION

NAME: **THE GOODYEAR TIRE & RUBBER COMPANY**
ADDRESS: **417 W SAN ANTONIO ST**
NEW BRAUNFELS, TX 78130
PHONE: **NOT REPORTED**

BUSINESS DESCRIPTION: **THIS REGISTRATION WAS INACTIVATED BECAUSE THERE WERE ONLY 6-DIGIT WASTE CODES ONTHE NOR AND NO WASTE ACTIVITY WAS REPORTED IN 1994, 1995 AND 1996.**
INDUSTRIAL WASTE PERMIT #: **NOT REPORTED**
MUNICIPAL WASTE PERMIT #: **NOT REPORTED**
SIC CODE: **NOT REPORTED**
WASTE GENERATOR: **YES**
WASTE RECEIVER: **NO**
WASTE TRANSPORTER: **NO**
TRANSFER FACILITY: **NO**
MAQUILADORA (MEXICAN FACILITY): **NO**
STATUS: **INACTIVE**
AMOUNT OF WASTE GENERATED: **CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR**
GENERATOR TYPE: **NON-INDUSTRIAL AND/OR MUNICIPAL**
THIS FACILITY IS A NON-NOTIFIER
THIS FACILITY IS A STEERS REPORTER - (STATE OF TEXAS ENVIRONMENTAL ELECTRONIC REPORTING SYSTEM)
THIS FACILITY IS REQUIRED TO SUBMIT AN ANNUAL WASTE REPORT
THIS FACILITY IS INVOLVED IN RECYCLING ACTIVITIES
LAST UPDATE TO TRACS (TCEQ REGULATORY ACTIVITIES AND COMPLIANCE SYSTEM): **04/01/2003**

ACTIVITIES

ACTIVITY TYPE: **UNKNOWN**
ACTIVITY DESCRIPTION: **NOT REPORTED**

WASTE

WASTE ID: **46778**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **NOT REPORTED**

WASTE ID: **46779**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **NO**
GENERATOR'S DESCRIPTION OF WASTE: **NOT REPORTED**

WASTE ID: **194968**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**

WASTE IS TREATED OFF SITE: **YES**

GENERATOR'S DESCRIPTION OF WASTE: **NOT REPORTED**

Back to Report Summary

MAP ID# 15 **Distance from Property: 0.241 mi. (1,272 ft.) ESE**

FACILITY INFORMATION

REGISTRATION#: **73071** EPA ID: **TXD149980799**
TNRCC ID #: **27504**
NAME: **GOODYEAR AUTO SERVICE CENTER**
ADDRESS: **417 W SAN ANTONIO ST**
NEW BRAUNFELS, TX 78130
CONTACT: **NOT REPORTED**
PHONE: **NOT REPORTED**
BUSINESS DESCRIPTION: **THIS REGISTRATION WAS INACTIVATED BECAUSE THERE WERE ONLY 6-DIGIT WASTE CODES ONTHE NOR AND NO WASTE ACTIVITY WAS REPORTED IN 1994, 1995 AND 1996.**
INDUSTRIAL WASTE PERMIT #: **NOT REPORTED**
MUNICIPAL WASTE PERMIT #: **NOT REPORTED**
SIC CODE: **NOT REPORTED**
WASTE GENERATOR: **YES**
WASTE RECEIVER: **NO**
WASTE TRANSPORTER: **NO**
TRANSFER FACILITY: **NO**
MAQUILADORA (MEXICAN FACILITY): **NO**
STATUS: **MERGED**
AMOUNT OF WASTE GENERATED: **CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR**
GENERATOR TYPE: **NON-INDUSTRIAL AND/OR MUNICIPAL**
THIS FACILITY IS A NON-NOTIFIER
THIS FACILITY IS A STEERS REPORTER - (STATE OF TEXAS ENVIRONMENTAL ELECTRONIC REPORTING SYSTEM)
THIS FACILITY IS REQUIRED TO SUBMIT AN ANNUAL WASTE REPORT
THIS FACILITY IS INVOLVED IN RECYCLING ACTIVITIES
LAST UPDATE TO TRACS (TCEQ REGULATORY ACTIVITIES AND COMPLIANCE SYSTEM): **06/26/2002**

OWNER INFORMATION

NAME: **GOODYEAR AUTO SERVICE CENTER**
ADDRESS: **NOT REPORTED**
PHONE: **NOT REPORTED**

ACTIVITIES

ACTIVITY TYPE: **UNKNOWN**
ACTIVITY DESCRIPTION: **NOT REPORTED**

WASTE

WASTE ID: **53602**
WASTE CODE STATUS: **INACTIVE**
WASTE IS RADIOACTIVE: **NO**
WASTE IS TREATED OFF SITE: **YES**
GENERATOR'S DESCRIPTION OF WASTE: **NOT REPORTED**

Back to Report Summary

MAP ID# 15 **Distance from Property: 0.241 mi. (1,272 ft.) ESE**

PROGRAM ID: **73071**
RN NUMBER: **RN100712488**
NAME: **GOODYEAR AUTO SERVICE CENTER**
ADDRESS: **417 W SAN ANTONIO ST**
NEW BRAUNFELS, TX 78130
STATUS: **INACTIVE**
STATUS DATE: **11/17/2017**
LOCATION DESCRIPTION:
417 W SAN ANTONIO ST, NEW BRAUNFELS, TX

Back to Report Summary

MAP ID# 15 **Distance from Property: 0.241 mi. (1,272 ft.) ESE**

FACILITY INFORMATION

ID#: **13221**
NAME: **GOODYEAR TIRE & RUBBER**
ADDRESS: **417 W SAN ANTONIO ST**
NEW BRAUNFELS, TX 78130
COUNTY: **COMAL**
REGION: **13**
TYPE: **RETAIL**
BEGIN DATE: **08/11/1986**
STATUS: **INACTIVE**
EXEMPT STATUS: **NO**
RECORDS OFF-SITE: **NO**
NUMBER OF ACTIVE UNDERGROUND TANKS: **NOT REPORTED**
NUMBER OF ACTIVE ABOVEGROUND TANKS: **NOT REPORTED**

APPLICATION INFORMATION:

RECEIVED DATE ON EARLIEST REGISTRATION FORM: **05/08/1986**
SIGNATURE DATE ON EARLIEST REGISTRATION FORM: **04/17/1986**
SIGNATURE NAME & TITLE: **R M HELDRIDGE, MGR CHEM & ENVIR**
ENFORCEMENT ACTION DATE: **NOT REPORTED**

OWNER

OWNER NUMBER: **CN600616049**
NAME: **THE GOODYEAR TIRE & RUBBER COMPANY**
CONTACT ADDRESS: **OWNER ADDRESS NOT REPORTED**
CITY NOT REPORTED
TYPE: **CORPORATION/COMPANY**
BEGIN DATE: **08/11/1986**
CONTACT ROLE: **NOT REPORTED**
CONTACT NAME: **NOT REPORTED**
CONTACT TITLE: **NOT REPORTED**
ORGANIZATION: **NOT REPORTED**
PHONE: **NOT REPORTED**
FAX: **NOT REPORTED**
EMAIL: **NOT REPORTED**

OPERATOR

OPERATOR NUMBER: **CN600616049**
NAME: **THE GOODYEAR TIRE & RUBBER COMPANY**
CONTACT ADDRESS: **321 CENTURY PLAZA DR STE 115**
HOUSTON TX 77073
TYPE: **CORPORATION/COMPANY**
BEGIN DATE: **08/11/1986**
CONTACT ROLE: **OPRCON**
CONTACT NAME: **NOT REPORTED**
CONTACT TITLE: **NOT REPORTED**

CONTACT INFORMATION

NAME: **L EICHMANN**
TITLE: **MANAGER**
ORGANIZATION: **GOODYEAR TIRE & RUBBER**
MAIL ADDRESS: **MAILING ADDRESS NOT REPORTED**
CITY NOT REPORTED
PHONE: **(512) 6252323 0**

ORGANIZATION: **THE GOODYEAR TIRE & RUBBER COMPANY**
PHONE: **(713) 6729481 0**
FAX: **NOT REPORTED**
EMAIL: **NOT REPORTED**

SELF-CERTIFICATION

-**NO SELF-CERTIFICATION INFORMATION REPORTED-**

CONSTRUCTION NOTIFICATION

NO CONSTRUCTION NOTIFICATION DATA REPORTED FOR THIS FACILITY

UNDERGROUND STORAGE TANK

TANK ID: **1**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1979**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **250**
EMPTY TANK: **NOT EMPTY**
STATUS: **REMOVED FROM GROUND**
STATUS BEGIN DATE: **09/20/1994**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **46332**
TANK ID: **1**
COMPARTMENT LETTER: **A**
SUBSTANCES: **USED OIL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **250**
COMPARTMENT RELEASE DETECTION: **WEEKLY MANUAL TANK GAUGING (TANKS <= 1000 GAL)**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

ABOVEGROUND STORAGE TANK INFORMATION

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

MAP ID# 16 **Distance from Property: 0.25 mi. (1,320 ft.) SE**

FACILITY INFORMATION

GEOSEARCH ID: **096938**
LPST ID: **096938**
FACILITY ID: **NOT REPORTED**
NAME: **MILT FERGUSON MOTOR CO**
ADDRESS: **699 W SAN ANTONIO ST**
NEW BRAUNFELS, TX

LEAKING TANK DETAILS

LPST ID: **096938**
NAME: **MILT FERGUSON MOTOR CO**
FACILITY LOCATION: **NOT REPORTED**
PRIORITY CODE: **5 - MINOR SOIL CONTAMINATION - DOES NOT REQUIRE A RAP**
CORRECTIVE ACTION STATUS CODE: **6A - FINAL CONCURRENCE ISSUED**
CORRECTIVE ACTION START DATE: **10/12/1990**
REPORTED DATE: **10/4/1990**
ENTERED DATE: **10/12/1990**

PRP INFORMATION

NAME: **MILT FERGUSON INC**
ADDRESS: **ADDRESS NOT REPORTED**
NEW BRAUNFELS TX 78131
CONTACT: **NOT REPORTED**
PHONE: **NOT REPORTED**

UNDERGROUND STORAGE TANK

NO UNDERGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

ABOVEGROUND STORAGE TANK INFORMATION

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

Leaking Petroleum Storage Tanks (LPST)

MAP ID# 17 **Distance from Property: 0.322 mi. (1,700 ft.) NW**

FACILITY INFORMATION

GEOSEARCH ID: **094953**
LPST ID: **094953**
FACILITY ID: **NOT REPORTED**
NAME: **LANDA TEXACO**
ADDRESS: **385 LANDA ST**
NEW BRAUNFELS, TX

LEAKING TANK DETAILS

LPST ID: **094953**
NAME: **LANDA TEXACO**
FACILITY LOCATION: **NOT REPORTED**
PRIORITY CODE: **6 - MINOR SOIL CONTAMINATION - NO REMEDIAL ACTION REQUIRED**
CORRECTIVE ACTION STATUS CODE: **6A - FINAL CONCURRENCE ISSUED**
CORRECTIVE ACTION START DATE: **3/20/1990**
REPORTED DATE: **2/6/1990**
ENTERED DATE: **3/20/1990**

PRP INFORMATION

NAME: **FISHER MAURICE**
ADDRESS: **ADDRESS NOT REPORTED**
NEW BRAUNFELS TX 78131
CONTACT: **NOT REPORTED**
PHONE: **NOT REPORTED**

UNDERGROUND STORAGE TANK

NO UNDERGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

ABOVEGROUND STORAGE TANK INFORMATION

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

Leaking Petroleum Storage Tanks (LPST)

MAP ID# 17 **Distance from Property: 0.322 mi. (1,700 ft.) NW**

FACILITY INFORMATION

GEOSEARCH ID: **099616**
LPST ID: **099616**
FACILITY ID: **NOT REPORTED**
NAME: **LANDA TEXACO**
ADDRESS: **385 LANDA ST**
NEW BRAUNFELS, TX

LEAKING TANK DETAILS

LPST ID: **099616**
NAME: **LANDA TEXACO**
FACILITY LOCATION: **NOT REPORTED**
PRIORITY CODE: **4A - SOIL CONTAMINATION ONLY REQUIRES FULL SITE ASSESSMENT RAP**
CORRECTIVE ACTION STATUS CODE: **6A - FINAL CONCURRENCE ISSUED**
CORRECTIVE ACTION START DATE: **7/24/1991**
REPORTED DATE: **7/18/1991**
ENTERED DATE: **7/24/1991**

PRP INFORMATION

NAME: **MIDTEX OIL INC**
ADDRESS: **ADDRESS NOT REPORTED**
NEW BRAUNFELS TX 78130
CONTACT: **NOT REPORTED**
PHONE: **NOT REPORTED**

UNDERGROUND STORAGE TANK

NO UNDERGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

ABOVEGROUND STORAGE TANK INFORMATION

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

MAP ID# 18 **Distance from Property: 0.349 mi. (1,843 ft.) WNW**

FACILITY INFORMATION

PROGRAM ID: **T2462**

REFERENCE NUMBER: **RN105932768**

FACILITY NAME: **FORMER LANDA MILLS POWER PLANT**

ADDRESS: **NOT REPORTED**

NOT REPORTED, TX

COUNTY: **COMAL**

LOCATION DESCRIPTION: **NE CORNER OF LANDA PARK DR AND LANDA ST - NEW BRAUNFELS, TX.**

TYPE OF FACILITY: **PROPERTY COMMERCIAL**

FACILITY STATUS: **COMPLETED WORKLOAD**

PROGRAM: **IHW CORRECTIVE ACTION**

PROGRAM STATUS: **INACTIVE**

CONTACTS

NOT REPORTED

REMEDIATIONS

NO REMEDIATION REPORTED

CATEGORY OF CONTAMINATION

DATE	CONTAMINATIONS:
2/8/11	**NOT REPORTED**

Back to Report Summary

Industrial and Hazardous Waste Corrective Action Sites (IHWCA)

MAP ID# 18 **Distance from Property: 0.349 mi. (1,843 ft.) WNW**

PROGRAM ID: **T0383**
RN NUMBER: **RN104649835**
NAME: **LOWER COLORADO RIVER AUTHORITY LCRA COMAL FACILITY**
ADDRESS: **NOT REPORTED**
NEW BRAUNFELS, TX
STATUS: **INACTIVE**
STATUS DATE: **8/2/2005**
LOCATION DESCRIPTION:
NOT REPORTED

Back to Report Summary

MAP ID# 18 **Distance from Property: 0.349 mi. (1,843 ft.) WNW**

PROGRAM ID: **T2462**
RN NUMBER: **RN105932768**
NAME: **FORMER LANDA MILLS POWER PLANT**
ADDRESS: **NE CORNER OF LANDA PARK DR AND LANDA ST - NEW BRAUNFELS, TX.**
NOT REPORTED, TX
STATUS: **INACTIVE**
STATUS DATE: **9/6/2012**
LOCATION DESCRIPTION:
NE CORNER OF LANDA PARK DR AND LANDA ST - NEW BRAUNFELS, TX.

Back to Report Summary

Leaking Petroleum Storage Tanks (LPST)

MAP ID# 18 **Distance from Property: 0.349 mi. (1,843 ft.) WNW**

FACILITY INFORMATION

GEOSEARCH ID: **095755**
LPST ID: **095755**
FACILITY ID: **NOT REPORTED**
NAME: **LCRA COMAL FACILITY VCP 0677**
ADDRESS: **LANDA STREET AT FREDERICKSBURG AVENUE FORMER ELECTRIC POWER PLANT**
NEW BRAUNFELS, TX

LEAKING TANK DETAILS

LPST ID: **095755**
NAME: **LCRA COMAL FACILITY VCP 0677**
FACILITY LOCATION: **NOT REPORTED**
PRIORITY CODE: **2A - GROUNDWATER OTHER THAN 1B SITE CHARACTERIZATION INCOMPLETE**
CORRECTIVE ACTION STATUS CODE: **6A - FINAL CONCURRENCE ISSUED**
CORRECTIVE ACTION START DATE: **1/14/2016**
REPORTED DATE: **6/11/1990**
ENTERED DATE: **6/11/1990**

PRP INFORMATION

NAME: **LOWER COLORADO RIVER AUTHORITY**
ADDRESS: **ADDRESS NOT REPORTED**
AUSTIN TX 78763
CONTACT: **NOT REPORTED**
PHONE: **NOT REPORTED**

UNDERGROUND STORAGE TANK

NO UNDERGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

ABOVEGROUND STORAGE TANK INFORMATION

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

Voluntary Cleanup Program Sites (VCP)

MAP ID# 18 **Distance from Property: 0.349 mi. (1,843 ft.) WNW**

SITE INFORMATION

ID#: **0677**
NAME: **COMAL POWER PLANT PROPERTY**
ADDRESS: **LANDA STREET @ FREDERICKSBURG AVENUE**
NEW BRAUNFELS TX
ACRES: **32.846**
FACILITY TYPE: **ELECTRIC POWER GENERATION FACILITY**
APPLICATION DATE: **1/8/98**
DATE OF AGREEMENT: **1/14/98**
CERTIFICATE OF COMPLETION DATE: **9/13/2002 0:00**
TYPE OF CERTIFICATE ISSUED: **FINAL**
TYPE LEAD: **OWNER**
PHASE: **COMPLETED**
MEDIA AFFECTED: **SOILS**
TNRCC SOLID WASTE REGISTRATION #: **NOT REPORTED**
REMEDY: **NOT REPORTED**
INSTITUTIONAL CONTROL: **NOT REPORTED**
LPST #: **95755**
EPA CERCLIS #: **NOT REPORTED**
EPA RCRIS #: **NOT REPORTED**
CONTAMINANT/S: **TPH, METALS, PCBS**

APPLICANT INFORMATION

ORGANIZATION: **LOWER COLORADO RIVER AUTHORITY**
KEN, LAUNIUS, REMEDIATION PROJECT MA
P.O. BOX 220
AUSTIN, TX, 78767-0220
PHONE: **512-473-3567**
FAX: **512-473-4066**

CONSULTANT/ATTORNEY INFORMATION

ORGANIZATION: **PARSONS ENGINEERING SCIENCE**
BRIAN, VANDERGLAS, REMEDIAL ACTION M
8000 CENTRE PARK DRIVE, SUITE 200
AUSTIN, TX, 78754
PHONE: **512-719-6000**
FAX: **512-719-6099**

Back to Report Summary

MAP ID# 19 **Distance from Property: 0.359 mi. (1,896 ft.) N**

FACILITY INFORMATION

GEOSEARCH ID: **107523**
LPST ID: **107523**
FACILITY ID: **0057738**
NAME: **SCHLITTERBAHN RESORT WATER PARK**
ADDRESS: **305 W AUSTIN ST**
NEW BRAUNFELS, TX

LEAKING TANK DETAILS

LPST ID: **107523**
NAME: **SCHLITTERBAHN RESORT WATER PARK**
FACILITY LOCATION: **NOT REPORTED**
PRIORITY CODE: **1.6 - EDWARDS AQUIFER RECHARGE ZONE OR TRANSITION ZONE IMPACT**
CORRECTIVE ACTION STATUS CODE: **6A - FINAL CONCURRENCE ISSUED**
CORRECTIVE ACTION START DATE: **12/17/1993**
REPORTED DATE: **11/23/1993**
ENTERED DATE: **12/17/1993**

PRP INFORMATION

NAME: **BAD SCHLOSS INC**
ADDRESS: **ADDRESS NOT REPORTED**
NEW BRAUNFELS TX 78130
CONTACT: **NOT REPORTED**
PHONE: **NOT REPORTED**

UNDERGROUND STORAGE TANK

TANK ID: **1**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **10/01/1986**
REGISTRATION DATE: **03/07/1991**
TANK CAPACITY (GAL): **500**
EMPTY TANK: **NOT EMPTY**
STATUS: **REMOVED FROM GROUND**
STATUS BEGIN DATE: **10/20/1993**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **YES**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **YES**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **138298**
TANK ID: **1**
COMPARTMENT LETTER: **A**
SUBSTANCES: **GASOLINE**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **500**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **EXTERNAL DIELECTRIC COATING/LAMINATE/TAPE/WRAP**
EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED
CORROSION PROTECTION: **EXTERNAL DIELECTRIC COATING/LAMINATE/TAPE/WRAP**

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

ABOVEGROUND STORAGE TANK INFORMATION

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

Leaking Petroleum Storage Tanks (LPST)

MAP ID# 20 **Distance from Property: 0.38 mi. (2,006 ft.) SSE**

FACILITY INFORMATION

GEOSEARCH ID: **096661**
LPST ID: **096661**
FACILITY ID: **NOT REPORTED**
NAME: **HERNANDEZ EXXON**
ADDRESS: **1216 W SAN ANTONIO ST**
NEW BRAUNFELS, TX

LEAKING TANK DETAILS

LPST ID: **096661**
NAME: **HERNANDEZ EXXON**
FACILITY LOCATION: **NOT REPORTED**
PRIORITY CODE: **4A - SOIL CONTAMINATION ONLY REQUIRES FULL SITE ASSESSMENT RAP**
CORRECTIVE ACTION STATUS CODE: **6A - FINAL CONCURRENCE ISSUED**
CORRECTIVE ACTION START DATE: **9/6/1990**
REPORTED DATE: **9/4/1990**
ENTERED DATE: **9/6/1990**

PRP INFORMATION

NAME: **JOHNSON OIL INC**
ADDRESS: **ADDRESS NOT REPORTED**
GONZALES TX 78629
CONTACT: **NOT REPORTED**
PHONE: **NOT REPORTED**

UNDERGROUND STORAGE TANK

NO UNDERGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

ABOVEGROUND STORAGE TANK INFORMATION

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

Closed & Abandoned Landfill Inventory (CALF)

MAP ID# 21 **Distance from Property: 0.388 mi. (2,049 ft.) NE**

SITE INFORMATION

SITE NUMBER: **800**
SITE NAME: **HINMAN ISLAND PARK**
LOCATION:
LANDA PARK CURRENTLY A GOLF COURSE
COUNTY: **COMAL**
COMMENTS:
REPORTED IN 1981 AACOG SURVEY; IDENTIFIED IN TDH MEMO DATED 04/19/71
INSPECTION:
???
OWNER NAME: **CITY OF NEW BRAUNFELS**
DATE OPEN: **1962**
DATE CLOSE: **1966**
SIZE (ACRES): **5.00**
SIZE (CUBIC YARDS): **0.00**
PARTIES: **NEW BRAUNFELS**

LANDFILL CONTENTS

HOUSEHOLD: **YES**
INDUSTRIAL: **NR**
AGRICULTURE: **NR**
OTHER: **NR**
UNAUTHORIZED: **NR**
HAZARD PROBABLY: **NR**
DEPTH CD: **NR**
MAXIMUM DEPTH: **0.00**
OTHER DESCRIPTION: **NOT REPORTED**
REVIEWER: **NOT REPORTED**

CONSTRUCTION DEMOLITION: **NR**
TIRES: **NR**
BRUSH: **NR**
LEGAL: **YES**
HAZARD UNLIKELY: **NR**
HAZARD CERTAINLY: **NR**
MINIMUM THICKNESS: **NR**
USE: **UK**

Back to Report Summary

MAP ID# 22 **Distance from Property: 0.408 mi. (2,154 ft.) NW**

FACILITY INFORMATION

GEOSEARCH ID: **110659**
LPST ID: **110659**
FACILITY ID: **0007080**
NAME: **CIRCLE K 5246**
ADDRESS: **486 LANDA ST**
NEW BRAUNFELS, TX

LEAKING TANK DETAILS

LPST ID: **110659**
NAME: **CIRCLE K 5246**
FACILITY LOCATION: **NOT REPORTED**
PRIORITY CODE: **4.2 - NO GW IMPACT NO APPARENT THREATS OR IMPACTS TO RECEPTORS**
CORRECTIVE ACTION STATUS CODE: **6A - FINAL CONCURRENCE ISSUED**
CORRECTIVE ACTION START DATE: **3/27/1996**
REPORTED DATE: **12/31/3000**
ENTERED DATE: **3/27/1996**

PRP INFORMATION

NAME: **CIRCLE K**
ADDRESS: **ADDRESS NOT REPORTED**
AUSTIN TX 78752
CONTACT: **NOT REPORTED**
PHONE: **NOT REPORTED**

UNDERGROUND STORAGE TANK

TANK ID: **1**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **04/01/1983**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **12000**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **04/01/1983**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **YES**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **YES**

TANK DETAILS

MATERIAL:
FRP
CORROSION PROTECTION:
FRP TANK OR PIPING (NONCORRODIBLE)
EXTERNAL CONTAINMENT:
NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **YES**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **105162**
TANK ID: **1**
COMPARTMENT LETTER: **A**
SUBSTANCES: **GASOLINE**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **12000**
COMPARTMENT RELEASE DETECTION: **AUTOMATIC TANK GAUGE TEST & INVENTORY CONTROL,SIR (STAT. INVENTORY RECONCILIATION) & INVENTORY CONTROL**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **TIGHT-FILL FITTING CONTAINER/BUCKET/SUMP,FACTORY - BUILT SPILL CONTAINER/BUCKET/SUMP,DELIVERY SHUT-OFF VALVE,FLOW RESTRICTOR VALUE,ALARM (SET@<=90%) W3A OR 3B**

PIPING SYSTEMS

MATERIAL: **FRP**
CORROSION PROTECTION: **FRP TANK OR PIPING (NONCORRODIBLE)**
EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED
CORROSION PROTECTION: **FRP TANK OR PIPING (NONCORRODIBLE)**

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **YES**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **2**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **04/01/1983**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **12000**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **01/16/2015**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **YES**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **YES**

TANK DETAILS

MATERIAL:
FRP
CORROSION PROTECTION:
FRP TANK OR PIPING (NONCORRODIBLE)
EXTERNAL CONTAINMENT:
NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **YES**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **105163**
TANK ID: **2**
COMPARTMENT LETTER: **A**
SUBSTANCES: **GASOLINE**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **12000**
COMPARTMENT RELEASE DETECTION: **AUTOMATIC TANK GAUGE TEST & INVENTORY CONTROL,SIR (STAT. INVENTORY RECONCILIATION) & INVENTORY CONTROL**

SPILL CONTAINMENT AND OVERFILL PREVENTION: **TIGHT-FILL FITTING CONTAINER/BUCKET/SUMP,FACTORY - BUILT SPILL CONTAINER/BUCKET/SUMP,DELIVERY SHUT-OFF VALVE,FLOW RESTRICTOR VALUE,ALARM (SET@<=90%) W3A OR 3B**

PIPING SYSTEMS

MATERIAL: **FRP**

CORROSION PROTECTION: **FRP TANK OR PIPING (NONCORRODIBLE)**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

CORROSION PROTECTION: **FRP TANK OR PIPING (NONCORRODIBLE)**

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **YES**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **2**

NUMBER OF COMPARTMENTS: **1**

INSTALLATION DATE: **04/01/1983**

REGISTRATION DATE: **05/08/1986**

TANK CAPACITY (GAL): **12000**

EMPTY TANK: **NOT EMPTY**

STATUS: **IN USE**

STATUS BEGIN DATE: **01/16/2015**

INTERNAL PROTECTION DATE: **NOT REPORTED**

REGULATORY STATUS: **FULLY REGULATED**

TANK DESIGN SINGLE WALL: **YES**

TANK DESIGN DOUBLE WALL: **NO**

PIPE DESIGN SINGLE WALL: **NO**

PIPE DESIGN DOUBLE WALL: **YES**

TANK DETAILS

MATERIAL:

FRP

CORROSION PROTECTION:

FRP TANK OR PIPING (NONCORRODIBLE)

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **YES**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **105163**

TANK ID: **2**

COMPARTMENT LETTER: **A**

SUBSTANCES: **EMPTY**

OTHER SUBSTANCES: **NOT REPORTED**

CAPACITY (GAL): **12000**

COMPARTMENT RELEASE DETECTION: **NOT REPORTED**

SPILL CONTAINMENT AND OVERFILL PREVENTION: **TIGHT-FILL FITTING CONTAINER/BUCKET/SUMP,FACTORY - BUILT SPILL CONTAINER/BUCKET/SUMP,DELIVERY SHUT-OFF VALVE,FLOW RESTRICTOR VALUE,ALARM (SET@<=90%) W3A OR 3B**

PIPING SYSTEMS

MATERIAL: **FRP**

CORROSION PROTECTION: **FRP TANK OR PIPING (NONCORRODIBLE)**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

CORROSION PROTECTION: **FRP TANK OR PIPING (NONCORRODIBLE)**

PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **YES**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **3**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **04/01/1983**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **12000**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **04/01/1983**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **YES**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **YES**

TANK DETAILS
MATERIAL:
FRP
CORROSION PROTECTION:
FRP TANK OR PIPING (NONCORRODIBLE)
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **YES**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**
COMPARTMENT DETAILS
UST COMPARTMENT ID: **105164**
TANK ID: **3**
COMPARTMENT LETTER: **A**
SUBSTANCES: **GASOLINE**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **12000**
COMPARTMENT RELEASE DETECTION: **AUTOMATIC TANK GAUGE TEST & INVENTORY CONTROL,SIR (STAT. INVENTORY RECONCILIATION) & INVENTORY CONTROL**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **TIGHT-FILL FITTING CONTAINER/BUCKET/SUMP,FACTORY - BUILT SPILL CONTAINER/BUCKET/SUMP,DELIVERY SHUT-OFF VALVE,FLOW RESTRICTOR VALUE,ALARM (SET@<=90%) W3A OR 3B**
PIPING SYSTEMS
MATERIAL: **FRP**
CORROSION PROTECTION: **FRP TANK OR PIPING (NONCORRODIBLE)**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
CORROSION PROTECTION: **FRP TANK OR PIPING (NONCORRODIBLE)**
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **YES**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **3**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **04/01/1983**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **12000**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **04/01/1983**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**

TANK DESIGN SINGLE WALL: **YES**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **YES**

TANK DETAILS

MATERIAL:
FRP
CORROSION PROTECTION:
FRP TANK OR PIPING (NONCORRODIBLE)
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **YES**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **105164**
TANK ID: **3**
COMPARTMENT LETTER: **A**
SUBSTANCES: **DIESEL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **12000**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **TIGHT-FILL FITTING CONTAINER/BUCKET/SUMP,FACTORY - BUILT SPILL CONTAINER/BUCKET/SUMP,DELIVERY SHUT-OFF VALVE,FLOW RESTRICTOR VALUE,ALARM (SET@<=90%) W3A OR 3B**

PIPING SYSTEMS

MATERIAL: **FRP**
CORROSION PROTECTION: **FRP TANK OR PIPING (NONCORRODIBLE)**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
CORROSION PROTECTION: **FRP TANK OR PIPING (NONCORRODIBLE)**
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **YES**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

ABOVEGROUND STORAGE TANK INFORMATION

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

Leaking Petroleum Storage Tanks (LPST)

MAP ID# 22 **Distance from Property: 0.408 mi. (2,154 ft.) NW**

FACILITY INFORMATION

GEOSEARCH ID: **119185**
LPST ID: **119185**
FACILITY ID: **0007080**
NAME: **FORMER PARKSIDE MART**
ADDRESS: **486 LANDA ST**
NEW BRAUNFELS, TX

LEAKING TANK DETAILS

LPST ID: **119185**
NAME: **FORMER PARKSIDE MART**
FACILITY LOCATION: **NOT REPORTED**
PRIORITY CODE: **3.1 - GW IMPACT PUB/DOM WATER SUPPLY WELL W/IN .25 - .5MI**
CORRECTIVE ACTION STATUS CODE: **6A - FINAL CONCURRENCE ISSUED**
CORRECTIVE ACTION START DATE: **4/25/2014**
REPORTED DATE: **7/8/2013**
ENTERED DATE: **7/23/2013**

PRP INFORMATION

NAME: **ALAMOCITY CAPITAL INC**
ADDRESS: **ADDRESS NOT REPORTED**
SAN ANTONIO TX 78237
CONTACT: **NOT REPORTED**
PHONE: **NOT REPORTED**

UNDERGROUND STORAGE TANK

TANK ID: **1**
INSTALLATION DATE: **04/01/1983**
TANK CAPACITY (GAL): **12000**
STATUS: **IN USE**
INTERNAL PROTECTION DATE: **NOT REPORTED**
TANK DESIGN SINGLE WALL: **YES**
PIPE DESIGN SINGLE WALL: **NO**
NUMBER OF COMPARTMENTS: **1**
REGISTRATION DATE: **05/08/1986**
EMPTY TANK: **NOT EMPTY**
STATUS BEGIN DATE: **04/01/1983**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **YES**

TANK DETAILS

MATERIAL:
FRP
CORROSION PROTECTION:
FRP TANK OR PIPING (NONCORRODIBLE)
EXTERNAL CONTAINMENT:
NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **YES**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **105162**
TANK ID: **1**
COMPARTMENT LETTER: **A**
SUBSTANCES: **GASOLINE**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **12000**
COMPARTMENT RELEASE DETECTION: **AUTOMATIC TANK GAUGE TEST & INVENTORY CONTROL,SIR (STAT. INVENTORY RECONCILIATION) & INVENTORY CONTROL**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **TIGHT-FILL FITTING CONTAINER/BUCKET/SUMP,FACTORY - BUILT SPILL CONTAINER/BUCKET/SUMP,DELIVERY SHUT-OFF VALVE,FLOW RESTRICTOR VALUE,ALARM (SET@<=90%) W3A OR 3B**

PIPING SYSTEMS

MATERIAL: **FRP**
CORROSION PROTECTION: **FRP TANK OR PIPING (NONCORRODIBLE)**
EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED
CORROSION PROTECTION: **FRP TANK OR PIPING (NONCORRODIBLE)**

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **YES**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **2**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **04/01/1983**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **12000**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **01/16/2015**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **YES**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **YES**

TANK DETAILS

MATERIAL:
FRP
CORROSION PROTECTION:
FRP TANK OR PIPING (NONCORRODIBLE)
EXTERNAL CONTAINMENT:
NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **YES**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **105163**
TANK ID: **2**
COMPARTMENT LETTER: **A**
SUBSTANCES: **GASOLINE**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **12000**
COMPARTMENT RELEASE DETECTION: **AUTOMATIC TANK GAUGE TEST & INVENTORY CONTROL,SIR (STAT. INVENTORY RECONCILIATION) & INVENTORY CONTROL**

SPILL CONTAINMENT AND OVERFILL PREVENTION: **TIGHT-FILL FITTING CONTAINER/BUCKET/SUMP,FACTORY - BUILT SPILL CONTAINER/BUCKET/SUMP,DELIVERY SHUT-OFF VALVE,FLOW RESTRICTOR VALUE,ALARM (SET@<=90%) W3A OR 3B**

PIPING SYSTEMS

MATERIAL: **FRP**

CORROSION PROTECTION: **FRP TANK OR PIPING (NONCORRODIBLE)**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

CORROSION PROTECTION: **FRP TANK OR PIPING (NONCORRODIBLE)**

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **YES**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **2**

NUMBER OF COMPARTMENTS: **1**

INSTALLATION DATE: **04/01/1983**

REGISTRATION DATE: **05/08/1986**

TANK CAPACITY (GAL): **12000**

EMPTY TANK: **NOT EMPTY**

STATUS: **IN USE**

STATUS BEGIN DATE: **01/16/2015**

INTERNAL PROTECTION DATE: **NOT REPORTED**

REGULATORY STATUS: **FULLY REGULATED**

TANK DESIGN SINGLE WALL: **YES**

TANK DESIGN DOUBLE WALL: **NO**

PIPE DESIGN SINGLE WALL: **NO**

PIPE DESIGN DOUBLE WALL: **YES**

TANK DETAILS

MATERIAL:

FRP

CORROSION PROTECTION:

FRP TANK OR PIPING (NONCORRODIBLE)

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **YES**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **105163**

TANK ID: **2**

COMPARTMENT LETTER: **A**

SUBSTANCES: **EMPTY**

OTHER SUBSTANCES: **NOT REPORTED**

CAPACITY (GAL): **12000**

COMPARTMENT RELEASE DETECTION: **NOT REPORTED**

SPILL CONTAINMENT AND OVERFILL PREVENTION: **TIGHT-FILL FITTING CONTAINER/BUCKET/SUMP,FACTORY - BUILT SPILL CONTAINER/BUCKET/SUMP,DELIVERY SHUT-OFF VALVE,FLOW RESTRICTOR VALUE,ALARM (SET@<=90%) W3A OR 3B**

PIPING SYSTEMS

MATERIAL: **FRP**

CORROSION PROTECTION: **FRP TANK OR PIPING (NONCORRODIBLE)**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

CORROSION PROTECTION: **FRP TANK OR PIPING (NONCORRODIBLE)**

PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **YES**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **3**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **04/01/1983**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **12000**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **04/01/1983**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **YES**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **YES**

TANK DETAILS
MATERIAL:
FRP
CORROSION PROTECTION:
FRP TANK OR PIPING (NONCORRODIBLE)
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **YES**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**
COMPARTMENT DETAILS
UST COMPARTMENT ID: **105164**
TANK ID: **3**
COMPARTMENT LETTER: **A**
SUBSTANCES: **GASOLINE**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **12000**
COMPARTMENT RELEASE DETECTION: **AUTOMATIC TANK GAUGE TEST & INVENTORY CONTROL,SIR (STAT. INVENTORY RECONCILIATION) & INVENTORY CONTROL**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **TIGHT-FILL FITTING CONTAINER/BUCKET/SUMP,FACTORY - BUILT SPILL CONTAINER/BUCKET/SUMP,DELIVERY SHUT-OFF VALVE,FLOW RESTRICTOR VALUE,ALARM (SET@<=90%) W3A OR 3B**
PIPING SYSTEMS
MATERIAL: **FRP**
CORROSION PROTECTION: **FRP TANK OR PIPING (NONCORRODIBLE)**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
CORROSION PROTECTION: **FRP TANK OR PIPING (NONCORRODIBLE)**
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **YES**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **3**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **04/01/1983**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **12000**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **04/01/1983**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**

TANK DESIGN SINGLE WALL: **YES**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **YES**

TANK DETAILS

MATERIAL:
FRP
CORROSION PROTECTION:
FRP TANK OR PIPING (NONCORRODIBLE)
EXTERNAL CONTAINMENT:
NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **YES**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **105164**
TANK ID: **3**
COMPARTMENT LETTER: **A**
SUBSTANCES: **DIESEL**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **12000**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **TIGHT-FILL FITTING CONTAINER/BUCKET/SUMP,FACTORY - BUILT SPILL CONTAINER/BUCKET/SUMP,DELIVERY SHUT-OFF VALVE,FLOW RESTRICTOR VALUE,ALARM (SET@<=90%) W3A OR 3B**

PIPING SYSTEMS

MATERIAL: **FRP**
CORROSION PROTECTION: **FRP TANK OR PIPING (NONCORRODIBLE)**
EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

CORROSION PROTECTION: **FRP TANK OR PIPING (NONCORRODIBLE)**

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **YES**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

ABOVEGROUND STORAGE TANK INFORMATION

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

Leaking Petroleum Storage Tanks (LPST)

MAP ID# 22 **Distance from Property: 0.408 mi. (2,154 ft.) NW**

FACILITY INFORMATION

GEOSEARCH ID: **119516**
LPST ID: **119516**
FACILITY ID: **NOT REPORTED**
NAME: **PARKSIDE MART**
ADDRESS: **486 LANDA ST**
NEW BRAUNFELS, TX

LEAKING TANK DETAILS

LPST ID: **119516**
NAME: **PARKSIDE MART**
FACILITY LOCATION: **NOT REPORTED**
PRIORITY CODE: **3.1 - GW IMPACT PUB/DOM WATER SUPPLY WELL W/IN .25 - .5MI**
CORRECTIVE ACTION STATUS CODE: **6A - FINAL CONCURRENCE ISSUED**
CORRECTIVE ACTION START DATE: **7/26/2017**
REPORTED DATE: **8/7/2014**
ENTERED DATE: **12/4/2014**

PRP INFORMATION

NAME: **MTG MANAGEMENT INC**
ADDRESS: **ADDRESS NOT REPORTED**
CITY NOT REPORTED
CONTACT: **NOT REPORTED**
PHONE: **NOT REPORTED**

UNDERGROUND STORAGE TANK

NO UNDERGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

ABOVEGROUND STORAGE TANK INFORMATION

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

MAP ID# 23 **Distance from Property: 0.41 mi. (2,165 ft.) E**

FACILITY INFORMATION

GEOSEARCH ID: **097354**
LPST ID: **097354**
FACILITY ID: **NOT REPORTED**
NAME: **H DITTLINGER ROLLER MILL**
ADDRESS: **398 E SAN ANTONIO ST**
NEW BRAUNFELS, TX

LEAKING TANK DETAILS

LPST ID: **097354**
NAME: **H DITTLINGER ROLLER MILL**
FACILITY LOCATION: **NOT REPORTED**
PRIORITY CODE: **5 - MINOR SOIL CONTAMINATION - DOES NOT REQUIRE A RAP**
CORRECTIVE ACTION STATUS CODE: **6A - FINAL CONCURRENCE ISSUED**
CORRECTIVE ACTION START DATE: **11/29/1990**
REPORTED DATE: **10/29/1990**
ENTERED DATE: **11/29/1990**

PRP INFORMATION

NAME: **ARCHER-DANIELS-MIDLAND COMPANY**
ADDRESS: **ADDRESS NOT REPORTED**
DECATUR IL 62526
CONTACT: **NOT REPORTED**
PHONE: **NOT REPORTED**

UNDERGROUND STORAGE TANK

NO UNDERGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

ABOVEGROUND STORAGE TANK INFORMATION

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

Superfund Enterprise Management System Archived Site Inventory (SEMSARCH)

MAP ID# 23 **Distance from Property: 0.41 mi. (2,165 ft.) E**

FACILITY INFORMATION

EPA ID#: **TXD980750657**

SITE ID#: **0602839**

NAME: **FLOUR MILLS OF AMERICA**

ADDRESS: **398 E SAN ANTONIO**
NEW BRAUNFELS, TX 78130

COUNTY: **COMAL**

FEDERAL FACILITY: **NOT A FEDERAL FACILITY**

NPL: **NOT ON THE NPL**

NON NPL STATUS: **NFRAP-SITE DOES NOT QUALIFY FOR THE NPL BASED ON EXISTING INFORMATION**

SEMS SEARCH: **CLICK HERE**

Below information was gathered from the prior NFRAP update completed in 10/2013 update:

ACTION	START DATE	COMPLETION DATE	RESPONSIBILITY
PA - PRELIMINARY ASSESSMENT	**2/1/1983**	**2/1/1983**	**EPA FUND**
DS - DISCOVERY	**NOT REPORTED**	**11/1/1979**	**EPA FUND**
VS - ARCHIVE SITE	**NOT REPORTED**	**2/1/1983**	**EPA IN-HOUSE**

ACTION DESCRIPTIONS

PA - (PRELIMINARY ASSESSMENT) - COLLECTION OF DIVERSE EXISTING INFORMATION ABOUT THE SOURCE AND NATURE OF THE SITE HAZARD. IT IS EPA POLICY TO COMPLETE THE PRELIMINARY ASSESSMENT WITHIN ONE YEAR OF SITE DISCOVERY.

DS - (DISCOVERY) - THE PROCESS BY WHICH A POTENTIAL HAZARDOUS WASTE SITE IS BROUGHT TO THE ATTENTION OF THE EPA. THE PROCESS CAN OCCUR THROUGH THE USE OF SEVERAL MECHANISMS SUCH AS A PHONE CALL OR REFERRAL BY ANOTHER GOVERNMENT AGENCY.

VS - (ARCHIVE SITE) - THE DECISION IS MADE THAT NO FURTHER ACTIVITY IS PLANNED AT THE SITE.

Back to Report Summary

MAP ID# 24 **Distance from Property: 0.419 mi. (2,212 ft.) NW**

FACILITY INFORMATION

GEOSEARCH ID: **092414**
LPST ID: **092414**
FACILITY ID: **NOT REPORTED**
NAME: **MCBEES BARBEQUE**
ADDRESS: **508 LANDA ST**
NEW BRAUNFELS, TX

LEAKING TANK DETAILS

LPST ID: **092414**
NAME: **MCBEES BARBEQUE**
FACILITY LOCATION: **NOT REPORTED**
PRIORITY CODE: **1.6 - EDWARDS AQUIFER RECHARGE ZONE OR TRANSITION ZONE IMPACT**
CORRECTIVE ACTION STATUS CODE: **6A - FINAL CONCURRENCE ISSUED**
CORRECTIVE ACTION START DATE: **12/22/1988**
REPORTED DATE: **12/21/1988**
ENTERED DATE: **12/22/1988**

PRP INFORMATION

NAME: **MCBEES BBQ**
ADDRESS: **ADDRESS NOT REPORTED**
NEW BRAUNFELS TX 78130
CONTACT: **NOT REPORTED**
PHONE: **NOT REPORTED**

UNDERGROUND STORAGE TANK

NO UNDERGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

ABOVEGROUND STORAGE TANK INFORMATION

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

Leaking Petroleum Storage Tanks (LPST)

MAP ID# 25 **Distance from Property: 0.448 mi. (2,365 ft.) SSE**

FACILITY INFORMATION

GEOSEARCH ID: **100577**
LPST ID: **100577**
FACILITY ID: **0008900**
NAME: **PAC N SAC STORE 501**
ADDRESS: **1289 W SAN ANTONIO ST**
NEW BRAUNFELS, TX

LEAKING TANK DETAILS

LPST ID: **100577**
NAME: **PAC N SAC STORE 501**
FACILITY LOCATION: **NOT REPORTED**
PRIORITY CODE: **5 - MINOR SOIL CONTAMINATION - DOES NOT REQUIRE A RAP**
CORRECTIVE ACTION STATUS CODE: **6A - FINAL CONCURRENCE ISSUED**
CORRECTIVE ACTION START DATE: **11/7/1991**
REPORTED DATE: **10/7/1991**
ENTERED DATE: **11/7/1991**

PRP INFORMATION

NAME: **CIRCLE K BANKRUPTCY**
ADDRESS: **ADDRESS NOT REPORTED**
CITY NOT REPORTED
CONTACT: **NOT REPORTED**
PHONE: **NOT REPORTED**

UNDERGROUND STORAGE TANK

TANK ID: **1**
INSTALLATION DATE: **06/01/1972**
TANK CAPACITY (GAL): **8000**
STATUS: **REMOVED FROM GROUND**
INTERNAL PROTECTION DATE: **NOT REPORTED**
TANK DESIGN SINGLE WALL: **YES**
PIPE DESIGN SINGLE WALL: **YES**
NUMBER OF COMPARTMENTS: **1**
REGISTRATION DATE: **05/08/1986**
EMPTY TANK: **NOT EMPTY**
STATUS BEGIN DATE: **09/26/1990**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **120692**
TANK ID: **1**
COMPARTMENT LETTER: **A**
SUBSTANCES: **GASOLINE**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **8000**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
CORROSION PROTECTION: **NOT REPORTED**
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **2**
INSTALLATION DATE: **06/01/1972**
TANK CAPACITY (GAL): **8000**
STATUS: **REMOVED FROM GROUND**
INTERNAL PROTECTION DATE: **NOT REPORTED**
TANK DESIGN SINGLE WALL: **YES**
PIPE DESIGN SINGLE WALL: **YES**
NUMBER OF COMPARTMENTS: **1**
REGISTRATION DATE: **05/08/1986**
EMPTY TANK: **NOT EMPTY**
STATUS BEGIN DATE: **09/26/1990**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **120694**
TANK ID: **2**
COMPARTMENT LETTER: **A**
SUBSTANCES: **GASOLINE**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **8000**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**

CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
CORROSION PROTECTION: **NOT REPORTED**
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **3**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **06/01/1972**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **8000**
EMPTY TANK: **NOT EMPTY**
STATUS: **REMOVED FROM GROUND**
STATUS BEGIN DATE: **09/26/1990**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **YES**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **YES**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS
MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**
COMPARTMENT DETAILS
UST COMPARTMENT ID: **120693**
TANK ID: **3**
COMPARTMENT LETTER: **A**
SUBSTANCES: **GASOLINE**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **8000**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**
PIPING SYSTEMS
MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
CORROSION PROTECTION: **NOT REPORTED**
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

ABOVEGROUND STORAGE TANK INFORMATION

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

Leaking Petroleum Storage Tanks (LPST)

MAP ID# 26 **Distance from Property: 0.488 mi. (2,577 ft.) S**

FACILITY INFORMATION

GEOSEARCH ID: **101434**
LPST ID: **101434**
FACILITY ID: **0059105**
NAME: **NEW BRAUNFELS FRAME ALIGNMENT**
ADDRESS: **1396 W SAN ANTONIO ST**
NEW BRAUNFELS, TX

LEAKING TANK DETAILS

LPST ID: **101434**
NAME: **NEW BRAUNFELS FRAME ALIGNMENT**
FACILITY LOCATION: **NOT REPORTED**
PRIORITY CODE: **6 - MINOR SOIL CONTAMINATION - NO REMEDIAL ACTION REQUIRED**
CORRECTIVE ACTION STATUS CODE: **6A - FINAL CONCURRENCE ISSUED**
CORRECTIVE ACTION START DATE: **1/23/1992**
REPORTED DATE: **12/27/1991**
ENTERED DATE: **1/23/1992**

PRP INFORMATION

NAME: **NEW BRAUNFELS FRAME ALIGNMEN**
ADDRESS: **ADDRESS NOT REPORTED**
NEW BRAUNFELS TX 78130
CONTACT: **NOT REPORTED**
PHONE: **NOT REPORTED**

UNDERGROUND STORAGE TANK

TANK ID: **1**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1939**
REGISTRATION DATE: **07/22/1991**
TANK CAPACITY (GAL): **500**
EMPTY TANK: **EMPTY**
STATUS: **PERM FILLED IN PLACE**
STATUS BEGIN DATE: **01/30/1992**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **YES**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **YES**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **150686**
TANK ID: **1**
COMPARTMENT LETTER: **A**
SUBSTANCES: **EMPTY**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **NOT REPORTED**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
CORROSION PROTECTION: **NOT REPORTED**
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **2**
INSTALLATION DATE: **01/01/1939**
TANK CAPACITY (GAL): **500**
STATUS: **PERM FILLED IN PLACE**
INTERNAL PROTECTION DATE: **NOT REPORTED**
TANK DESIGN SINGLE WALL: **YES**
PIPE DESIGN SINGLE WALL: **YES**
NUMBER OF COMPARTMENTS: **1**
REGISTRATION DATE: **07/22/1991**
EMPTY TANK: **EMPTY**
STATUS BEGIN DATE: **01/30/1992**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **150685**
TANK ID: **2**
COMPARTMENT LETTER: **A**
SUBSTANCES: **EMPTY**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **NOT REPORTED**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**

CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
CORROSION PROTECTION: **NOT REPORTED**
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **3**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1939**
REGISTRATION DATE: **07/22/1991**
TANK CAPACITY (GAL): **500**
EMPTY TANK: **EMPTY**
STATUS: **PERM FILLED IN PLACE**
STATUS BEGIN DATE: **01/30/1992**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **YES**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **YES**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS
MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**
COMPARTMENT DETAILS
UST COMPARTMENT ID: **150687**
TANK ID: **3**
COMPARTMENT LETTER: **A**
SUBSTANCES: **EMPTY**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **NOT REPORTED**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**
PIPING SYSTEMS
MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
CORROSION PROTECTION: **NOT REPORTED**
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **4**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1939**
REGISTRATION DATE: **07/22/1991**

TANK CAPACITY (GAL): **500**
EMPTY TANK: **EMPTY**
STATUS: **PERM FILLED IN PLACE**
STATUS BEGIN DATE: **01/30/1992**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **YES**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **YES**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **150688**
TANK ID: **4**
COMPARTMENT LETTER: **A**
SUBSTANCES: **EMPTY**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **NOT REPORTED**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
CORROSION PROTECTION: **NOT REPORTED**
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

ABOVEGROUND STORAGE TANK INFORMATION

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

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MAP ID# 27 **Distance from Property: 0.781 mi. (4,124 ft.) SSE**

PROGRAM ID: **T1704**
RN NUMBER: **RN104615554**
NAME: **SCHWABS MACHINE SHOP NEW BRAUNFELS**
ADDRESS: **1168 S BUSINESS IH 35**
NEW BRAUNFELS, TX 78130
STATUS: **INACTIVE**
STATUS DATE: **4/24/2001**
LOCATION DESCRIPTION:
BUSINESS IH 35 & HICKORY AVE

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Unlocated Sites Summary

This list contains sites that could not be mapped due to limited or incomplete address information.

No Records Found

AIRSAFS Aerometric Information Retrieval System / Air Facility Subsystem

VERSION DATE: 10/20/14

The United States Environmental Protection Agency (EPA) modified the Aerometric Information Retrieval System (AIRS) to a database that exclusively tracks the compliance of stationary sources of air pollution with EPA regulations: the Air Facility Subsystem (AFS). Since this change in 2001, the management of the AIRS/AFS database was assigned to EPA's Office of Enforcement and Compliance Assurance.

BRS Biennial Reporting System

VERSION DATE: 12/31/11

The United States Environmental Protection Agency (EPA), in cooperation with the States, biennially collects information regarding the generation, management, and final disposition of hazardous wastes regulated under the Resource Conservation and Recovery Act of 1976 (RCRA), as amended. The Biennial Report captures detailed data on the generation of hazardous waste from large quantity generators and data on waste management practices from treatment, storage and disposal facilities. Currently, the EPA states that data collected between 1991 and 1997 was originally a part of the defunct Biennial Reporting System and is now incorporated into the RCRAInfo data system.

CDL Clandestine Drug Laboratory Locations

VERSION DATE: 07/01/16

The U.S. Department of Justice ("the Department") provides this information as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments. The Department does not establish, implement, enforce, or certify compliance with clean-up or remediation standards for contaminated sites; the public should contact a state or local health department or environmental protection agency for that information.

DOCKETS EPA Docket Data

VERSION DATE: 12/22/05

The United States Environmental Protection Agency Docket data lists Civil Case Defendants, filing dates as far back as 1971, laws broken including section, violations that occurred, pollutants involved, penalties assessed and superfund awards by facility and location. Please refer to ICIS database as source of current data.

EC Federal Engineering Institutional Control Sites

VERSION DATE: 08/03/15

This database includes site locations where Engineering and/or Institutional Controls have been identified as part

of a selected remedy for the site as defined by United States Environmental Protection Agency official remedy decision documents. A site listing does not indicate that the institutional and engineering controls are currently in place nor will be in place once the remedy is complete; it only indicates that the decision to include either of them in the remedy is documented as of the completed date of the document. Institutional controls are actions, such as legal controls, that help minimize the potential for human exposure to contamination by ensuring appropriate land or resource use. Engineering controls include caps, barriers, or other device engineering to prevent access, exposure, or continued migration of contamination.

ECHOR06 Enforcement and Compliance History Information

VERSION DATE: 08/26/17

The EPA's Enforcement and Compliance History Online (ECHO) database, provides compliance and enforcement information for facilities nationwide. This database includes facilities regulated as Clean Air Act stationary sources, Clean Water Act direct dischargers, Resource Conservation and Recovery Act hazardous waste handlers, Safe Drinking Water Act public water systems along with other data, such as Toxics Release Inventory releases.

ERNSTX Emergency Response Notification System

VERSION DATE: 04/29/18

This National Response Center database contains data on reported releases of oil, chemical, radiological, biological, and/or etiological discharges into the environment anywhere in the United States and its territories. The data comes from spill reports made to the U.S. Environmental Protection Agency, U.S. Coast Guard, the National Response Center and/or the U.S. Department of Transportation.

FRSTX Facility Registry System

VERSION DATE: 04/17/18

The United States Environmental Protection Agency's Office of Environmental Information (OEI) developed the Facility Registry System (FRS) as the centrally managed database that identifies facilities, sites or places subject to environmental regulations or of environmental interest. The Facility Registry System replaced the Facility Index System or FINDS database.

HMIRSR06 Hazardous Materials Incident Reporting System

VERSION DATE: 03/27/18

The HMIRS database contains unintentional hazardous materials release information reported to the U.S. Department of Transportation located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

ICIS Integrated Compliance Information System (formerly DOCKETS)

VERSION DATE: 09/23/17

ICIS is a case activity tracking and management system for civil, judicial, and administrative federal Environmental Protection Agency enforcement cases. ICIS contains information on federal administrative and federal judicial cases under the following environmental statutes: the Clean Air Act, the Clean Water Act, the Resource Conservation and Recovery Act, the Emergency Planning and Community Right-to-Know Act - Section 313, the Toxic Substances Control Act, the Federal Insecticide, Fungicide, and Rodenticide Act, the Comprehensive Environmental Response, Compensation, and Liability Act, the Safe Drinking Water Act, and the Marine Protection, Research, and Sanctuaries Act.

ICISNPDES Integrated Compliance Information System National Pollutant Discharge Elimination System

VERSION DATE: 07/09/17

Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States.

LUCIS Land Use Control Information System

VERSION DATE: 09/01/06

The LUCIS database is maintained by the U.S. Department of the Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

MLTS Material Licensing Tracking System

VERSION DATE: 06/29/17

MLTS is a list of approximately 8,100 sites which have or use radioactive materials subject to the United States Nuclear Regulatory Commission (NRC) licensing requirements.

NPDESR06 National Pollutant Discharge Elimination System

VERSION DATE: 04/01/07

Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States. The NPDES database was collected from December 2002 until April 2007. Refer to the PCS and/or ICIS-NPDES database as source of current data. This database includes permitted facilities located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

PADS PCB Activity Database System

VERSION DATE: 07/18/17

PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

PCSR06 Permit Compliance System

VERSION DATE: 08/01/12

The Permit Compliance System is used in tracking enforcement status and permit compliance of facilities controlled by the National Pollutant Discharge Elimination System (NPDES) under the Clean Water Act and is maintained by the United States Environmental Protection Agency's Office of Compliance. PCS is designed to support the NPDES program at the state, regional, and national levels. This database includes permitted facilities located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas. PCS has been modernized, and no longer exists. National Pollutant Discharge Elimination System (ICIS-NPDES) data can now be found in Integrated Compliance Information System (ICIS).

RCRASC RCRA Sites with Controls

VERSION DATE: 03/21/18

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities with institutional controls in place.

SEMSLIENS SEMS Lien on Property

VERSION DATE: 04/11/18

The U.S. Environmental Protections Agency's (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs. This is a listing of SEMS sites with a lien on the property.

SFLIENS CERCLIS Liens

VERSION DATE: 06/08/12

A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which United States Environmental Protection Agency has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties. This database contains those CERCLIS sites where the Lien on Property action is complete.

SSTS Section Seven Tracking System

VERSION DATE: 02/01/17

The United States Environmental Protection Agency tracks information on pesticide establishments through the Section Seven Tracking System (SSTS). SSTS records the registration of new establishments and records pesticide production at each establishment. The Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) requires that production of pesticides or devices be conducted in a registered pesticide-producing or device-producing establishment. ("Production" includes formulation, packaging, repackaging, and relabeling.)

TRI Toxics Release Inventory

VERSION DATE: 12/31/16

The Toxics Release Inventory, provided by the United States Environmental Protection Agency, includes data on toxic chemical releases and waste management activities from certain industries as well as federal and tribal facilities. This inventory contains information about the types and amounts of toxic chemicals that are released each year to the air, water, and land as well as information on the quantities of toxic chemicals sent to other facilities for further waste management.

TSCA Toxic Substance Control Act Inventory

VERSION DATE: 12/31/12

The Toxic Substances Control Act (TSCA) was enacted in 1976 to ensure that chemicals manufactured, imported, processed, or distributed in commerce, or used or disposed of in the United States do not pose any unreasonable risks to human health or the environment. TSCA section 8(b) provides the United States Environmental Protection Agency authority to "compile, keep current, and publish a list of each chemical substance that is manufactured or processed in the United States." This TSCA Chemical Substance Inventory contains non-confidential information on the production amount of toxic chemicals from each manufacturer and importer site.

RCRAGR06 Resource Conservation & Recovery Act - Generator

VERSION DATE: 03/01/18

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities currently generating hazardous waste. EPA region 6 includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

RCRANGR06 Resource Conservation & Recovery Act - Non-Generator

VERSION DATE: 03/01/18

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities classified as non-generators. Non-Generators do not presently generate hazardous waste. EPA Region 6 includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

ALTFUELS Alternative Fueling Stations

VERSION DATE: 01/22/18

Nationwide list of alternative fueling stations made available by the US Department of Energy's Office of Energy Efficiency & Renewable Energy. Includes Biodiesel stations, Ethanol (E85) stations, Liquefied Petroleum Gas (Propane) stations, Ethanol (E85) stations, Natural Gas stations, Hydrogen stations, and Electric Vehicle Supply Equipment (EVSE).

FEMAUST FEMA Owned Storage Tanks

VERSION DATE: 12/01/16

This is a listing of FEMA owned underground and aboveground storage tank sites. For security reasons, address information is not released to the public according to the U.S. Department of Homeland Security.

HISTPST Historical Gas Stations

VERSION DATE: NR

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

ICISCLEANERS Integrated Compliance Information System Drycleaners

VERSION DATE: 09/23/17

This is a listing of drycleaner facilities from the Integrated Compliance Information System (ICIS). The Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.

MRDS Mineral Resource Data System

VERSION DATE: 03/15/16

MRDS (Mineral Resource Data System) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS.

MSHA Mine Safety and Health Administration Master Index File

VERSION DATE: 09/01/17

The Mine dataset lists all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970. It includes such information as the current status of each mine (Active, Abandoned, NonProducing, etc.), the current owner and operating company, commodity codes and physical attributes of the mine. Mine ID is the unique key for this data. This information is provided by the United States Department of Labor - Mine Safety and Health Administration (MSHA).

BF Brownfields Management System

VERSION DATE: 06/27/18

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. The United States Environmental Protection Agency maintains this database to track activities in the various brown field grant programs including grantee assessment, site cleanup and site redevelopment. This database included tribal brownfield sites.

DNPL Delisted National Priorities List

VERSION DATE: 04/11/18

This database includes sites from the United States Environmental Protection Agency's Final National Priorities List (NPL) where remedies have proven to be satisfactory or sites where the original analyses were inaccurate, and the site is no longer appropriate for inclusion on the NPL, and final publication in the Federal Register has occurred.

NLRRCRAT No Longer Regulated RCRA Non-CORRACTS TSD Facilities

VERSION DATE: 03/01/18

This database includes RCRA Non-Corrective Action TSD facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements. This listing includes facilities that formerly treated, stored or disposed of hazardous waste.

ODI Open Dump Inventory

VERSION DATE: 06/01/85

The open dump inventory was published by the United States Environmental Protection Agency. An “open dump” is defined as a facility or site where solid waste is disposed of which is not a sanitary landfill which meets the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944) and which is not a facility for disposal of hazardous waste. This inventory has not been updated since June 1985.

RCRAT Resource Conservation & Recovery Act - Non-CORRACTS Treatment, Storage & Disposal Facilities

VERSION DATE: 03/01/18

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities recognized as hazardous waste treatment, storage, and disposal sites (TSD).

SEMS Superfund Enterprise Management System

VERSION DATE: 04/11/18

The U.S. Environmental Protections Agency's (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs.

SEMSARCH Superfund Enterprise Management System Archived Site Inventory

VERSION DATE: 04/11/18

The Superfund Enterprise Management System Archive listing (SEMS-ARCHIVE) has replaced the CERCLIS NFRAP reporting system in 2015. This listing reflect sites that have been assessed and no further remediation is planned and is of no further interest under the Superfund program.

SMCRA Surface Mining Control and Reclamation Act Sites

VERSION DATE: 08/25/17

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

USUMTRCA Uranium Mill Tailings Radiation Control Act Sites

VERSION DATE: 03/04/17

The Legacy Management Office of the Department of Energy (DOE) manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The L.M. Office manages this database of sites registered under the Uranium Mill Tailings Control Act (UMTRCA).

DOD Department of Defense Sites

VERSION DATE: 12/01/14

This information originates from the National Atlas of the United States Federal Lands data, which includes lands owned or administered by the Federal government. Army DOD, Army Corps of Engineers DOD, Air Force DOD, Navy DOD and Marine DOD areas of 640 acres or more are included.

FUDS Formerly Used Defense Sites

VERSION DATE: 06/01/15

The Formerly Used Defense Sites (FUDS) inventory includes properties previously owned by or leased to the United States and under Secretary of Defense Jurisdiction, as well as Munitions Response Areas (MRAs). The remediation of these properties is the responsibility of the Department of Defense. This data is provided by the U.S. Army Corps of Engineers (USACE), the boundaries/polygon data are based on preliminary findings and not all properties currently have polygon data available. DISCLAIMER: This data represents the results of data collection/processing for a specific USACE activity and is in no way to be considered comprehensive or to be used in any legal or official capacity as presented on this site. While the USACE has made a reasonable effort to insure the accuracy of the maps and associated data, it should be explicitly noted that USACE makes no warranty, representation or guaranty, either expressed or implied, as to the content, sequence, accuracy, timeliness or completeness of any of the data provided herein. For additional information on Formerly Used Defense Sites please contact the USACE Public Affairs Office at (202) 528-4285.

FUSRAP Formerly Utilized Sites Remedial Action Program

VERSION DATE: 03/04/17

The U.S. DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from the Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations. The DOE Office of Legacy Management (LM) established long-term surveillance and maintenance (LTS&M) requirements for remediated FUSRAP sites. DOE evaluates the final site conditions of a remediated site on the basis of risk for different future uses. DOE then confirms that LTS&M requirements will maintain protectiveness.

NLRRCRAC No Longer Regulated RCRA Corrective Action Facilities

VERSION DATE: 03/01/18

This database includes RCRA Corrective Action facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements.

NMS Former Military Nike Missile Sites

VERSION DATE: 12/01/84

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites.
During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

NPL National Priorities List

VERSION DATE: 04/11/18

This database includes United States Environmental Protection Agency (EPA) National Priorities List sites that fall under the EPA's Superfund program, established to fund the cleanup of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action.

PNPL Proposed National Priorities List

VERSION DATE: 04/11/18

This database contains sites proposed to be included on the National Priorities List (NPL) in the Federal Register. The United States Environmental Protection Agency investigates these sites to determine if they may present long-term threats to public health or the environment.

RCRAC Resource Conservation & Recovery Act - Corrective Action Facilities

VERSION DATE: 03/01/18

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities with corrective action activity.

RCRASUBC Resource Conservation & Recovery Act - Subject to Corrective Action Facilities

VERSION DATE: 03/01/18

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities subject to corrective actions.

RODS Record of Decision System

VERSION DATE: 04/11/18

These decision documents maintained by the United States Environmental Protection Agency describe the chosen remedy for NPL (Superfund) site remediation. They also include site history, site description, site characteristics, community participation, enforcement activities, past and present activities, contaminated media, the contaminants present, and scope and role of response action.

GWCC Groundwater Contamination Cases

VERSION DATE: 08/26/16

This report contains a listing of groundwater contamination cases which were documented for the 2013 calendar year. Texas Water Code, Section 26.406 requires the annual report to describe the current status of groundwater monitoring activities conducted or required by each agency at regulated facilities or associated with regulated activities. The agencies reporting these contamination cases include the Texas Commission on Environmental Quality, Railroad Commission of Texas, Texas Alliance of Groundwater Districts, and Department of State Health Services.

HISTGWCC Historic Groundwater Contamination Cases

VERSION DATE: 12/31/12

This historic report contains all agency groundwater contamination cases documented from 1994 to 2012. The agencies that reported these contamination cases included the Texas Commission on Environmental Quality, Railroad Commission of Texas, Texas Alliance of Groundwater Districts, and Department of State Health Services.

LANDAPP Land Application Permits

VERSION DATE: 03/01/13

Texas Land Application Permits are a requirement from the Texas Commission on Environmental Quality for any domestic facility that disposes of treated effluent by land application such as surface irrigation, evaporation, drainfields or subsurface land application.

LIENS TCEQ Liens

VERSION DATE: 06/06/18

Liens filed upon State and/or Federal Superfund Sites by the Texas Commission on Environmental Quality.

MSD Municipal Setting Designations

VERSION DATE: 04/01/18

The Texas Commission on Environmental Quality defines an MSD as an official state designation given to property within a municipality or its extraterritorial jurisdiction that certifies that designated groundwater at the property is not used as potable water, and is prohibited from future use as potable water because that groundwater is contaminated in excess of the applicable potable-water protective concentration level. The prohibition must be in the form of a city ordinance, or a restrictive covenant that is enforceable by the city and filed in the property records. The MSD property can be a single property, multi-property, or a portion of property.

Environmental Records Definitions - STATE (TX)

NOV Notice of Violations

VERSION DATE: 02/24/16

This database containing Notice of Violations (NOV) is maintained by the Texas Commission on Environmental Quality. An NOV is a written notification that documents and communicates violations observed during an inspection to the business or individual inspected.

SIEC01 State Institutional/Engineering Control Sites

VERSION DATE: 06/06/18

The Texas Risk Reduction Program (TRRP) requires the placement of institutional controls (e.g., deed notices or restrictive covenants) on affected property in different circumstances as part of completing a response action. In its simplest form, an institutional control (IC) is a legal document that is recorded in the county deed records. In certain circumstances, local zoning or ordinances can serve as an IC. This listing may also include locations where Engineering Controls are in effect, such as a cap, barrier, or other engineering device to prevent access, exposure, or continued migration of contamination. The sites included on this list are regulated by various programs of the Texas Commission on Environmental Quality (TCEQ).

SPILLS Spills Listing

VERSION DATE: 01/24/18

This Texas Commission on Environmental Quality database includes releases of hazardous or potentially hazardous materials into the environment.

TIERII Tier I I Chemical Reporting Program Facilities

VERSION DATE: 12/31/12

The Texas Tier II Chemical Reporting Program in the Department of State Health Services (DSHS) is the state repository for EPCRA-required Emergency Planning Letters (EPLs), which are one-time notifications to the state from facilities that have certain extremely hazardous chemicals in specified amounts. The Program is also the state repository for EPCRA/state-required hazardous chemical inventory reports called Texas Tier Two Reports. This data contains those facility reports for the 2005 through the 2012 calendar years. Please contact the Texas Commission on Environmental Quality Tier II Chemical Reporting Division as the current source for this data, due to confidentiality and safety reasons details such as the location and capacity of on-site hazardous chemicals is only available to local emergency planning agencies, fire departments, and/or owners.

DCR Dry Cleaner Registration Database

VERSION DATE: 05/01/18

The database includes dry cleaning drop stations and facilities registered with the Texas Commission on Environmental Quality.

IHW Industrial and Hazardous Waste Sites

VERSION DATE: 05/01/18

Owner and facility information is included in this database of permitted and non-permitted industrial and hazardous waste sites. Industrial waste is waste that results from or is incidental to operations of industry, manufacturing, mining, or agriculture. Hazardous waste is defined as any solid waste listed as hazardous or possesses one or more hazardous characteristics as defined in federal waste regulations. The IHW database is maintained by the Texas Commission on Environmental Quality.

PIHW Permitted Industrial Hazardous Waste Sites

VERSION DATE: 05/01/18

Owner and facility information is included in this database of all permitted industrial and hazardous waste sites. Industrial waste is waste that results from or is incidental to operations of industry, manufacturing, mining, or agriculture. Hazardous waste is defined as any solid waste listed as hazardous or possesses one or more hazardous characteristics as defined in federal waste regulations. Permitted IHW facilities are regulated under 30 Texas Administrative Code Chapter 335 in addition to federal regulations. The IHW database is maintained by the Texas Commission on Environmental Quality.

PST Petroleum Storage Tanks

VERSION DATE: 06/20/18

The Petroleum Storage Tank database is administered by the Texas Commission on Environmental Quality (TCEQ). Both Underground storage tanks (USTs) and Aboveground storage tanks (ASTs) are included in this report. Petroleum Storage Tank registration has been a requirement with the TCEQ since 1986.

APAR Affected Property Assessment Reports

VERSION DATE: 12/18/17

As regulated by the Texas Commission on Environmental Quality, an Affected Property Assessment Report is required when a person is addressing a release of chemical of concern (COC) under 30 TAC Chapter 350, the Texas Risk Reduction Program (TRRP). The purpose of the APAR is to document all relevant affected property information to identify all release sources and COCs, determine the extent of all COCs, identify all transport/exposure pathways, and to determine if any response actions are necessary. The Texas Administrative Code Title 30 §350.4(a)(1) defines affected property as the entire area (i.e. on-site and off-site; including all environmental media) which contains releases of chemicals of concern at concentrations equal to or greater than the assessment level applicable for residential land use and groundwater classification.

BSA Brownfields Site Assessments

VERSION DATE: 06/06/18

The Brownfields Site Assessments database is maintained by the Texas Commission on Environmental Quality

(TCEQ). The TCEQ, in close partnership with the U.S. Environmental Protection Agency (EPA) and other federal, state, and local redevelopment agencies, and stakeholders, is facilitating cleanup, transferability, and revitalization of brownfields through the development of regulatory, tax, and technical assistance tools.

CALF Closed & Abandoned Landfill Inventory

VERSION DATE: 11/01/05

The Texas Commission on Environmental Quality, under a contract with Texas State University, and in cooperation with the 24 regional Council of Governments (COGs) in the State, has located over 4,000 closed and abandoned municipal solid waste landfills throughout Texas. This listing contains "unauthorized sites". Unauthorized sites have no permit and are considered abandoned. The information available for each site varies in detail and this historical information is not updated. Please refer to the specific regional COG for the most current information.

DCRPS Dry Cleaner Remediation Program Sites

VERSION DATE: 03/01/18

This list of DCRP sites is provided by the Texas Commission on Environmental Quality (TCEQ). According to the TCEQ, the Dry Cleaner Remediation Program (DCRP) establishes a prioritization list of dry cleaner sites and administers the Dry Cleaning Remediation fund to assist with remediation of contamination caused by dry cleaning solvents.

IOP Innocent Owner / Operator Database

VERSION DATE: 06/06/18

Texas Innocent Owner / Operator (IOP), created by House Bill 2776 of the 75th Legislature, provides a certificate to an innocent owner or operator if their property is contaminated as a result of a release or migration of contaminants from a source or sources not located on the property, and they did not cause or contribute to the source or sources of contamination. The IOP database is maintained by the Texas Commission on Environmental Quality.

LPST Leaking Petroleum Storage Tanks

VERSION DATE: 06/08/18

The Leaking Petroleum Storage Tank listing is derived from the Petroleum Storage Tank (PST) database and is maintained by the Texas Commission on Environmental Quality. This listing includes aboveground and underground storage tank facilities with reported leaks.

MSWLF Municipal Solid Waste Landfill Sites

VERSION DATE: 06/08/18

The municipal solid waste landfill database is provided by the Texas Commission on Environmental Quality. This

database includes active landfills and inactive landfills, where solid waste is treated or stored.

RRCVCP Railroad Commission VCP and Brownfield Sites

VERSION DATE: 04/11/18

According to the Railroad Commission of Texas, their Voluntary Cleanup Program (RRC-VCP) provides an incentive to remediate Oil & Gas related pollution by participants as long as they did not cause or contribute to the contamination. Applicants to the program receive a release of liability to the state in exchange for a successful cleanup.

RWS Radioactive Waste Sites

VERSION DATE: 07/11/06

This Texas Commission on Environmental Quality database contains all sites in the State of Texas that have been designated as Radioactive Waste sites.

STCV Salt Caverns for Petroleum Storage

VERSION DATE: 09/01/06

The salt caverns for petroleum storage database is provided by the Railroad Commission of Texas.

VCP Voluntary Cleanup Program Sites

VERSION DATE: 06/06/18

The Texas Voluntary Cleanup Program (VCP) provides administrative, technical, and legal incentives to encourage the cleanup of contaminated sites in Texas. Since all non-responsible parties, including future lenders and landowners, receive protection from liability to the state of Texas for cleanup of sites under the VCP, most of the constraints for completing real estate transactions at those sites are eliminated. As a result, many unused or underused properties may be restored to economically productive or community beneficial uses. The VCP database is maintained by the Texas Commission on Environmental Quality.

WMRF Recycling Facilities

VERSION DATE: 11/01/12

This listing of recycling facilities is provided by the Texas Commission on Environmental Quality's Recycle Texas Online service. The company information provided in this database is self-reported. Since recyclers post their own information, a facility or company appearing on the list does not imply that it is in compliance with TCEQ regulations or other applicable laws. This database is no longer maintained and includes the last compilation of the program participants before the Recycle Texas Online program was closed.

IHWCA Industrial and Hazardous Waste Corrective Action Sites

VERSION DATE: 05/11/18

This database is provided by the Texas Commission on Environmental Quality (TCEQ). According to the TCEQ, the mission of the industrial and hazardous waste corrective action program is to oversee the cleanup of sites contaminated from industrial and municipal hazardous and industrial nonhazardous wastes. The goals of this program are to: Ensure that sites are assessed and remediated to levels that protect human health and the environment; Verify that waste management units or facilities are taken out of service and closed properly; and to Facilitate revitalization of contaminated properties.

SF State Superfund Sites

VERSION DATE: 09/23/16

The state Superfund program mission is to remediate abandoned or inactive sites within the state that pose an unacceptable risk to public health and safety or the environment, but which do not qualify for action under the federal Superfund program (NPL - National Priority Listing). As required by the Texas Solid Waste Disposal Act, Texas Health and Safety Code, Chapter 361, the Texas Commission on Environmental Quality identifies and evaluates these facilities for inclusion on the state Superfund registry. This registry includes any recent developments and the anticipated action for these sites.

Environmental Records Definitions - LOCAL

EAP Edwards Aquifer Permits

VERSION DATE: 07/21/06

This database, maintained by the Texas Commission on Environmental Quality, contains Edward Aquifer permits.

Environmental Records Definitions - TRIBAL

USTR06 Underground Storage Tanks On Tribal Lands

VERSION DATE: 04/01/18

This database, provided by the United States Environmental Protection Agency (EPA), contains underground storage tanks on Tribal lands located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

LUSTR06 Leaking Underground Storage Tanks On Tribal Lands

VERSION DATE: 04/01/18

This database, provided by the United States Environmental Protection Agency (EPA), contains leaking underground storage tanks on Tribal lands located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

ODINDIAN Open Dump Inventory on Tribal Lands

VERSION DATE: 11/08/06

This Indian Health Service database contains information about facilities and sites on tribal lands where solid waste is disposed of, which are not sanitary landfills or hazardous waste disposal facilities, and which meet the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944).

INDIANRES Indian Reservations

VERSION DATE: 01/01/00

The Department of Interior and Bureau of Indian Affairs maintains this database that includes American Indian Reservations, off-reservation trust lands, public domain allotments, Alaska Native Regional Corporations and Recognized State Reservations.

ATTACHMENT J

TCEQ FILES – LPST RECORDS

WST LPST/ REPORTS
1st: 0015453 2nd: 094360 Vol: 001
BBC: 30025987
IBC: 100233324

Texas Natural Resource Conservation Commission

INTEROFFICE MEMORANDUM

TO : FILE DATE: August 25, 1995

THRU : Delonda Alexander, Manager, RPR Unit III
Responsible Party Remediation Section

FROM : Daniel Benson, Coordinator, Unit I
Responsible Party Remediation Section

SUBJECT : File Closure of Subsurface Release of Gasoline at the New Braunfels Smokehouse Facility, 441 North Guenther Road, New Braunfels (Comal County), Texas
(LPST ID No. 94360 - Priority 4.0)

A confirmed release was reported to the TNRCC Region 13 Field Office on December 11, 1989 following the permanent removal a 250 gallon diesel UST and a 1,000 gallon steel UST at the above referenced facility. The former tank field is located adjacent to the southwest corner of an existing building which operates as a business office and restaurant. The former tank field and surrounding area will be covered with a concrete foundation as part of the existing building expansion.

Soil samples obtained from the initial tank field excavation indicated TPH concentrations ranged from 4.4 ppm to 1739 ppm (east wall at 4-8 feet) and total BTEX concentrations ranged from 0.123 ppm to 487.1 ppm (east wall at 4-8 feet). In January 1990, the east wall and tank pit bottom were overexcavated to an approximate depth of 11 feet below ground surface (bgs). Laboratory results of composite soil samples obtained from the east wall and tank bottom following overexcavation indicated TPH concentrations were 7.5 ppm and 173.3 ppm and total BTEX concentrations were 3.04 ppm and 84.16 ppm, respectively. In March 1990, the tank pit bottom was further overexcavated to an approximate depth of 22 feet bgs and two composite samples from the tank bottom (east and west ends) were obtained. Analytical results indicated TPH concentrations were 238.1 ppm (east end) and 1.22 ppm (west end) and total BTEX concentrations were 45.96 ppm (east end) and 0.142 ppm (west end).

Groundwater was not encountered in the tank field excavation although the tank pit remained open until backfilled with clean imported fill following the overexcavation at 22 feet. Approximately 240 cubic yards of contaminated soils were

transported for disposal to the Comal County Landfill in New Braunfels. Waste manifests for the soil disposal are included in the file.

Directives from the Region 13 were issued in May 1991 and an Initial Site Assessment was conducted in June 1991. The investigation consisted of drilling two soil borings (TH-1 and TH-2), drilling one monitor well (MW-1), and collecting soil and groundwater samples. Soil samples collected during drilling activities indicated TPH concentrations ranged from below detection limits (ND) to 31 ppm in TH-2 (30 feet bgs.) and total BTEX concentrations ranged from ND to 17.22 ppm in TH-2 (30 feet bgs.) TH-2 is located adjacent east of the former tank field. Groundwater was not encountered during drilling at TH-1 and TH-2 but was encountered in MW-1 at approximately 27 feet below ground surface. Initial groundwater samples obtained from MW-1 in June 1991 (after well development) indicated the TPH concentration was 2.07 ppm and the total BTEX concentration was 0.001 ppm. MW-1 was resampled twice in July 1991 and analytical results from both sampling events indicated TPH and total BTEX concentrations were ND.

In July 1995, a subsurface investigation was conducted to determine soil and groundwater contamination remaining as a result of the release from the UST system. The investigation consisted of drilling four soil borings (B-1 through B-3 and MW-2) to a depth of 40 feet, obtaining soil samples from each boring, and collecting water samples from MW-1 and B-1). Analytical results of soils samples obtained during drilling indicated TPH concentrations ranged from ND to 55 ppm (MW-2 at 32.5-34.5 feet) and total BTEX concentrations ranged from ND to 0.7 ppm. Additionally, a soil sample from MW-2 was also analyzed for polynuclear aromatic hydrocarbons (PAH) using EPA Method 8310. Analytical results indicated PAH concentrations which were ND, with a method detection limit of 40 ppb.

Laboratory results of a groundwater sample obtained from B-1 indicated the TPH concentration was 11 ppm and the total BTEX concentration was 1.1 ppm; however, this water sample may not be representative of true groundwater conditions at the site since B-1 was located within the boundaries of the former tank field and the sample was obtained at the approximate limit of the overexcavated tank field. Analytical results of a groundwater sample obtained from MW-1 indicated TPH and total BTEX concentrations were ND. Depth to groundwater at MW-1 was measured at 29.8 feet from ground surface during the July 1995 sampling event. Groundwater was not encountered in boring B-2, B-3, and MW-2.

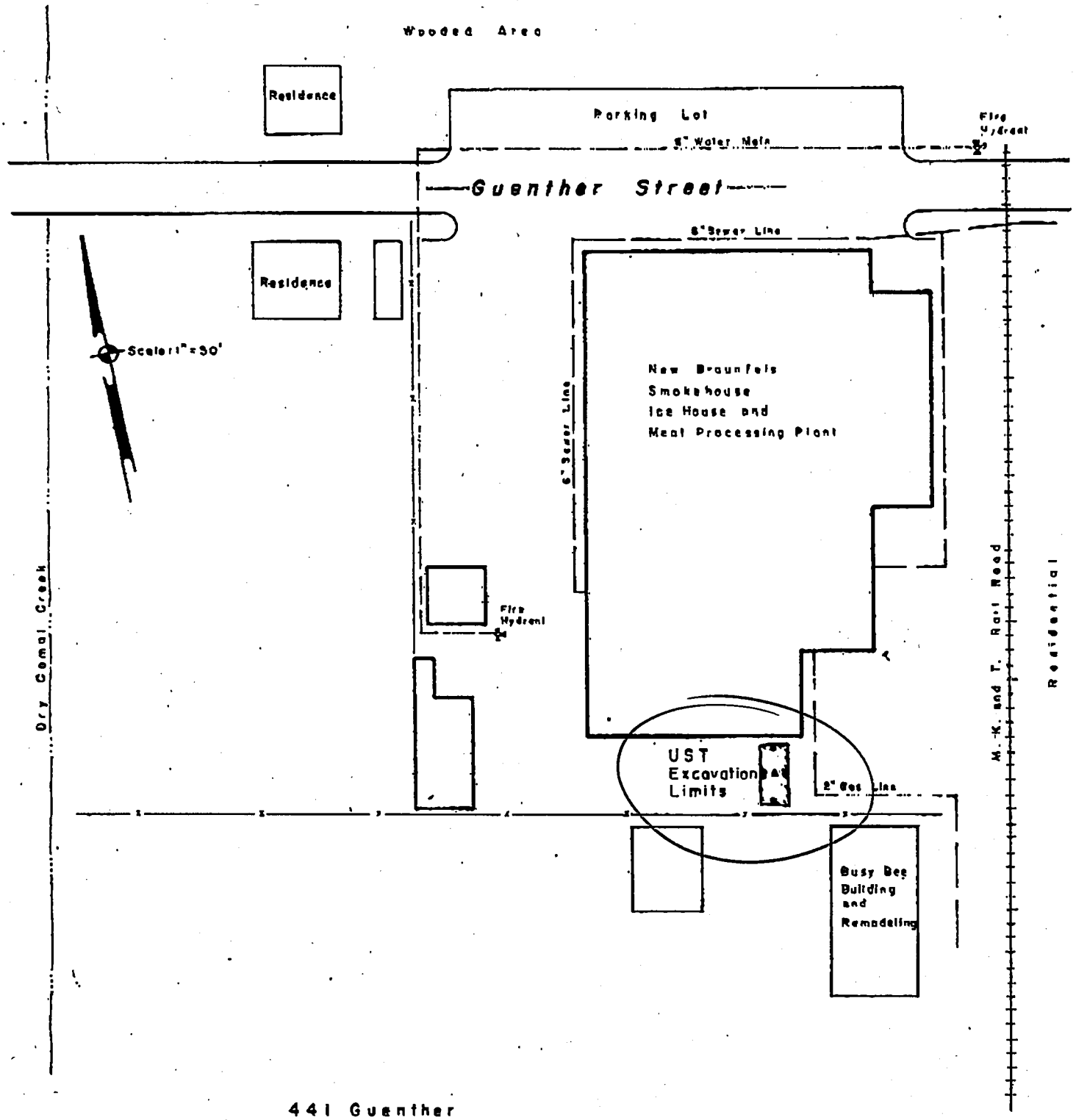
Target cleanup levels for ground water at the site are 1 ppm total BTEX and 5 ppm TPH. Soil cleanup levels are based on TPH concentrations of 100 ppm and BTEX concentrations of 30 ppm. Soil contamination at the site appears to be confined in clay soils at approximately 32 feet and localized in the area of the former tank pit. Contaminant levels remaining in place will continue to decline an through natural attenuation and should not pose an eminent threat to public health and safety or the environment. No water wells have been identified within a 0.5 mile radius of the site. Future site use will not involve the use stored petroleum substances and re-contamination is not likely.

Based on this and all information available to us at this time, I conclude that no further corrective action is warranted and a letter of final concurrence should be issued to the responsible party.

Daniel Benson.
Daniel Benson

DRB/drb
94360.iom

cc: Henry Karnei, TNRCC Region 13 Field Office, 210/490-3096
140 Heimer Rd., San Antonio, Texas 78232-5042
Steve Wiley, TNRCC Occupational Certification Section



441 Guenther
New Braunfels, Texas

LEGEND

▲ - Sample Points

UST Removal

90083	KEI CONSULTANTS	SITE PLAN	FIG. 2

TABLE I

SUMMARY OF ANALYTICAL LABORATORY RESULTS - SOIL
NEW BRAUNFELS SMOKEHOUSE, INC.

UST REMOVAL

Sample Location	Date Sampled	Depth (feet)	Sample Type	Benzene (ppm)	Toluene (ppm)	Ethyl-Benzene (ppm)	Xylenes (ppm)	Total BTEX (ppm)	TPH (ppm)
Tank Bottom	11/28/89	8	Comp	1.1	11.1	1.9	5.8	19.9	94
OVEREXCAV.	01/09/90	11	Comp	0.82	8.6	3.07	71.67	84.16	173.33
East end	03/06/90	23	Grab	4.29	21.43	5.48	14.76	45.96	238.1
West end	03/06/90	23	Grab	0.03	0.03	0.002	0.08	0.142	1.22
North Wall	11/28/89	6-8	Comp	ND	0.087	0.152	1.5	1.739	11.7
South Wall	11/28/89	6-8	Comp	ND	0.030	0.019	0.074	0.123	4.4
East Wall	11/28/89	4-8	Comp	2.6	87	6.5	391	487.1	1739
OVEREXCAV.	01/09/90	10	Grab	0.5	0.37	0.18	2.44	3.04	7.5
West Wall	11/28/89	7	Grab	ND	0.005	ND	0.010	0.015	ND
Stockpile	11/28/89	---	Comp	0.300	15	17.5	100	132.8	600

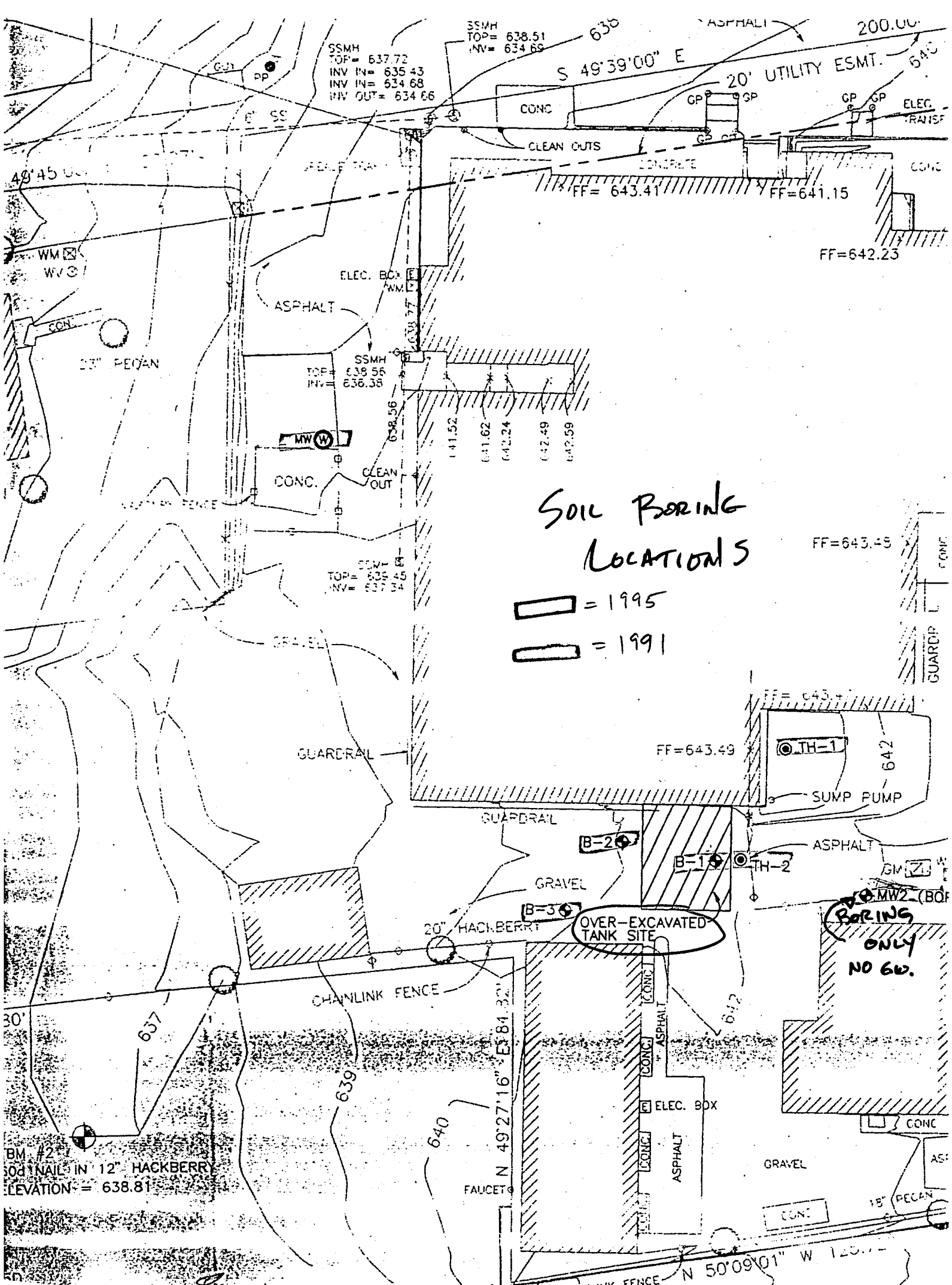
FURTHER OVEREXCAV.

NOTES:

1. ND indicates the constituent was not detected at a concentration above the method detection limits:

TPH Detection Limit = 1 ppm Test Method - TPH - EPA 418.1
BTEX Detection Limit = 0.001 ppm Test Method - BTEX - EPA 8020

2. Comp = Composite


SSMH
TOP= 638.51
INV= 634.69
SSMH
TOP= 637.72
INV IN= 635.43
INV IN= 634.68
INV OUT= 634.66
S 49°39'00" E
20' UTILITY ESMT.
CONC
GP
ELEC. TRANSF
CLEAN OUTS
CONCRETE
FF= 643.41
FF=641.15
FF=642.23
WM
WV
ELEC. BOX
ASPHALT
SSMH
TOP= 638.56
INV= 636.38
23" PECAN
MW
CONC.
CLEAN OUT
641.52
641.62
642.24
642.49
642.59
638.56
637.77
SOIL BORING LOCATIONS
= 1995
= 1991
FF=643.48
GUARDRAIL
FF=643.49
TH-1
642
SUMP PUMP
B-2
B-1
TH-2
ASPHALT
GRAVEL
B-3
20" HACKBERRY
OVER-EXCAVATED TANK SITE
MW2
BORING ONLY NO GW.
CHAINLINK FENCE
637
639
640
642
N 49°27'16" E 84.32'
ELEC. BOX
CONC
ASPHALT
GRAVEL
FAUCET
BM #2
60d NAIL IN 12" HACKBERRY
ELEVATION = 638.81
18" PECAN
N 50°09'01" W

Summary

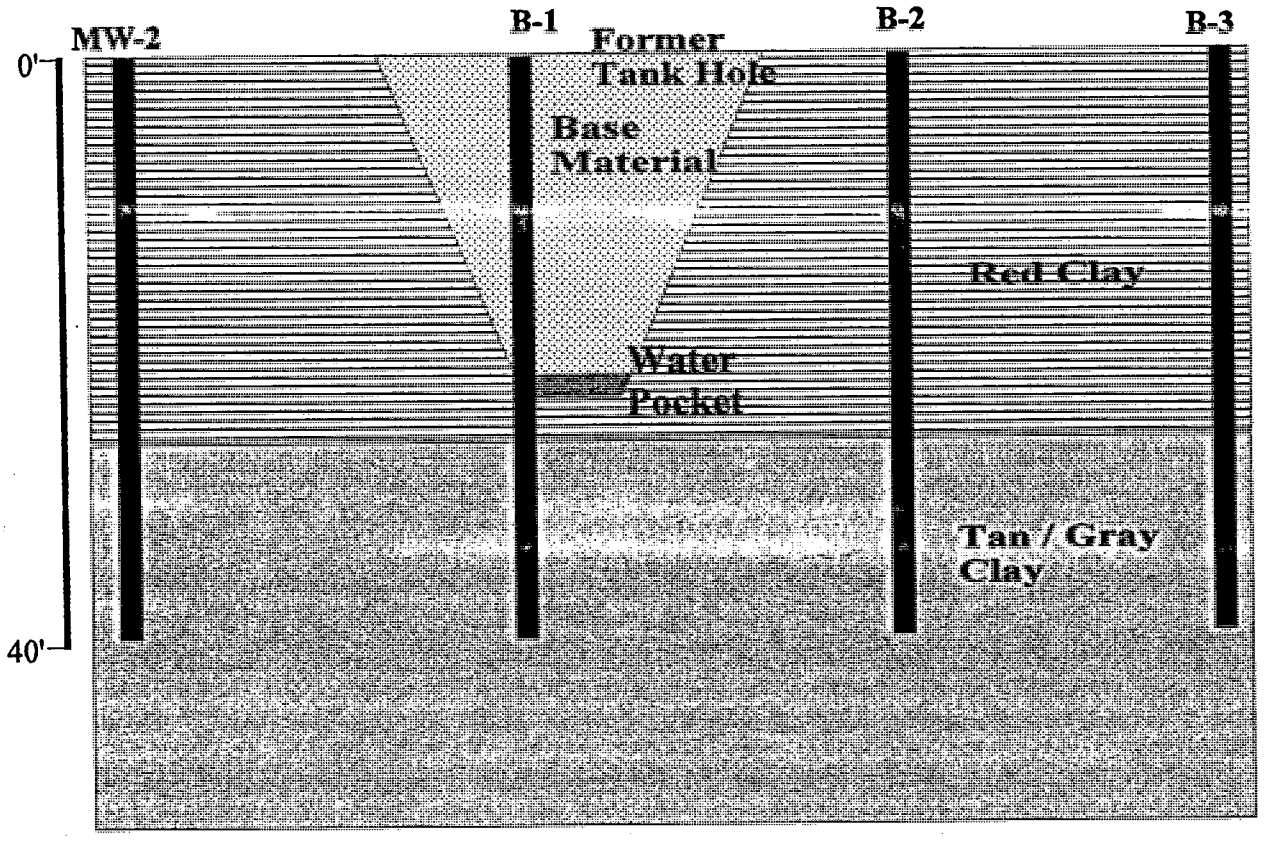
New Braunfels Smokehouse
Report of Soil Sample Laboratory Analysis

Sample Number	Sample Date	Depth (Feet)	Parameter							
			Petroleum Hydrocarbon	Benzene	Ethylbenzene	m,p-Xylenes	o-Xylene	Toluene	Total BTEX	MTBE
B-1	7-20-95	28'	_10 mg/Kg	<50 ug/Kg	<50 ug/Kg	190 ug/Kg	<50 ug/Kg	<50 ug/Kg	190 ug/Kg	<500 ug/Kg
B-1	7-20-95	32'	<10 mg/Kg	440 ug/Kg	59 ug/Kg	54 ug/Kg	110 ug/kg	37 ug/Kg	700 ug/Kg	<200 ug/Kg
MW-2	7-21-95	32.5'-34.5'	55 mg/Kg	<50 ug/Kg	<50 ug/Kg	<50 ug/Kg	<50 ug/Kg	<50 ug/Kg	<250 ug/Kg	<500 ug/Kg
MW-2	7-21-95	38'-40'	<10 mg/Kg	<50 ug/Kg	<50 ug/Kg	<50 ug/Kg	<50 ug/Kg	<50 ug/Kg	<250 ug/Kg	<500 ug/Kg
B-2	7-21-95	30'-32"	35 mg/Kg	<50 ug/Kg	<50 ug/Kg	98 ug/Kg	<50 ug/Kg	<50 ug/Kg	98 ug/Kg	<500 ug/Kg
B-2	7-21-95	35'-37'	<10 mg/Kg	<50 ug/Kg	<50 ug/Kg	<50 ug/Kg	<50 ug/Kg	<50 ug/Kg	<250 ug/Kg	<500 ug/Kg
B-3	7-21-95	32.5'-34.3'	_38 mg/Kg	<50 ug/Kg	<50 ug/Kg	<50 ug/Kg	<50 ug/Kg	<50 ug/Kg	<250 ug/Kg	<500 ug/Kg
B-3	7-21-95	35'-37'	18 mg/Kg	<100 ug/Kg	<100 ug/Kg	<100 ug/Kg	<100 ug/Kg	<100 ug/Kg	<500 ug/Kg	<1000 ug/Kg
MW-1	6-04-91	20'	ND	ND	ND	ND	-	ND	ND	-
MW-1	6-04-91	30'	ND	ND	ND	ND	-	ND	ND	-
TH-1	6-04-91	17.5'	ND	ND	ND	ND	-	0.001	0.001	-
TH-1	6-04-91	30'	ND	ND	ND	0.001	-	ND	0.001	-
TH-2	6-04-91	30'	31.008 ppm	1.498 ppm	3.604 ppm	9.323 ppm	-	2.801 ppm	17.226 ppm	-
TH-2	6-04-91	34'	ND	0.020 ppm	0.009 ppm	0.026 ppm	-	0.008 ppm	0.063 ppm	-
Auger Cuttings	6-04-91	-	ND	0.001 ppm	ND	0.001 ppm	-	ND	0.002 ppm	-

New Braunels Smokehouse

Cross Sectional View of borings B-1, B-2, B-3 and MW-2
View to the south

July 1995



CHEMSOLVE
environmental analytical services
11629 Manchaca Road • Austin, Texas 78748 • (512) 280-7680

METHOD 8310 PAH 1995

Project: NBS001AA **Report #:** 15558
Sample: MW-2 (Soil) 32.5-34.5'

Parameter	Result	Units	PQL	Method	Date/Time	Run	By
Benzene	<50	µg/Kg	50	8020	8/1/95	0:57	JHH
Ethylbenzene	<50	µg/Kg	50	8020	8/1/95	0:57	JHH
m,p-Xylenes	<50	µg/Kg	50	8020	8/1/95	0:57	JHH
MTBE	<500	µg/Kg	500	8020	8/1/95	0:57	JHH
o-Xylene	<50	µg/Kg	50	8020	8/1/95	0:57	JHH
Toluene	<50	µg/Kg	50	8020	8/1/95	0:57	JHH
Acenapthene	<40	µg/Kg	40	8310	8/8/95	10:56	MGB
Acenapthylene	<80	µg/Kg	80	8310	8/8/95	10:56	MGB
Anthracene	<20	µg/Kg	20	8310	8/8/95	10:56	MGB
Benzo(a)anthracene	<4	µg/Kg	4	8310	8/8/95	10:56	MGB
Benzo(a)pyrene	<0.8	µg/Kg	0.8	8310	8/8/95	10:56	MGB
Benzo(b)fluoranthene	<0.4	µg/Kg	0.4	8310	8/8/95	10:56	MGB
Benzo(ghi)perylene	<2	µg/Kg	2	8310	8/8/95	10:56	MGB
Benzo(k)fluoranthene	<0.4	µg/Kg	0.4	8310	8/8/95	10:56	MGB
Chrysene	<4	µg/Kg	4	8310	8/8/95	10:56	MGB
Dibenzo(a,h)anthracene	<0.4	µg/Kg	0.4	8310	8/8/95	10:56	MGB
Fluoranthene	<8	µg/Kg	8	8310	8/8/95	10:56	MGB
Fluorene	<8	µg/Kg	8	8310	8/8/95	10:56	MGB
Indeno(1,2,3-cd)pyrene	<0.8	µg/Kg	0.8	8310	8/8/95	10:56	MGB
Napthalene	<40	µg/Kg	40	8310	8/8/95	10:56	MGB
Phenanthrene	<20	µg/Kg	20	8310	8/8/95	10:56	MGB
Pyrene	<8	µg/Kg	8	8310	8/8/95	10:56	MGB

Copyright © 1995, Chemsolve, Austin, Texas. All rights reserved.
PQL - Practical quantification limit. M.S. - Matrix spike. M.S.D. - Matrix spike duplicate

Summary

New Braunfels Smokehouse
Report of Water Sample Laboratory Analysis

Sample Number	Sample Date	Parameter							
		Petroleum Hydrocarbon	Benzene	Ethylbenzene	m,p-Xylenes	o-Xylene	Toluene	Total BTEX	MTBE
B-1	7-20-95	11 mg/L	<100 ug/L	830 ug/L	390 ug/L	<100 ug/L	<100 ug/L	1220 ug/L	<1000 ug/L
NBS001-A	7-29-95	<.5 ppm	<.005 ppm	<.005 ppm	<.015 ppm	-	<.005 ppm	<.03 ppm	-
MW-1	6-10-91	2.076 ppm	0.001 ppm	ND	ND	-	ND	0.001 ppm	-
MW-1	6-26-91	ND	ND	ND	ND	-	ND	ND	-
MW-1	7-11-91	ND	ND	ND	ND	-	ND	ND	-

CLOSURE REVIEW CHECKLIST INFORMATION

LPST ID NO: 94360 DATE REVIEWED: 8/25/95

REGION: 13 DATE DISCOVERED: 12/11/89

TYPE OF RELEASE: LINE LEAK SUSPECTED OVER TANK FIELD

SUBSTANCE RELEASED: Gas ✓ Diesel___ Waste Oil___ Other___

UST REMOVAL DATE: DECEMBER 1989

TYPE OF REMEDIATION SOIL: OVEREXCAVATION TO 22 FEET

GW ENCOUNTERED DURING REMOVAL/EXCAVATION: Yes_____ No ✓

TANKPIT WATER SAMPLE: benzene_____ BTEX_____ TPH_____

INITIAL SOIL CONTAMINANT LEVELS:

TANKPIT (ppm)

Max benzene 2.6 Depth 4-8' Location EAST WALL

Max BTEX 487.1 Depth 4-8 Location EAST WALL

Max TPH 1739 Depth 4-8 Location EAST WALL

DISPENSER/LINE (ppm) NA

Max benzene_____ Depth_____ Location_____

Max BTEX _____ Depth_____ Location_____

Max TPH _____ Depth_____ Location_____

FINAL SOIL CONTAMINANT LEVELS:

TANKPIT (ppm)

Max benzene 4.29 Depth 22 Location TANK BOTTOM EAST END

Max BTEX 45.96 Depth 22 Location " EAST END

Max TPH 238.1 Depth 22 Location EAST END

DISPENSER/LINE (ppm) NA

Max benzene_____ Depth_____ Location_____

Max BTEX _____ Depth_____ Location_____

Max TPH _____ Depth_____ Location_____

NUMBER SOIL BORINGS 7 TOTAL NUMBER MONITOR WELLS 1 (MW-1)

SOIL TH-2 @ 30'

Max Benz 1.498
Max BTEX 17.226
Max TPH 31,008

WATER

Max Benz 0.001
Max BTEX 0.001
Max TPH 2.076
TDS/MWELL 742 mg/l

June 1991

WATER WELL SEARCH: Yes ✓ No ___ Wells 1/2 Mile: ZERO

AVERAGE DEPTH TO GW: 27' GW GRADIENT FLOW: LIKELY TO WEST (UNKNOWN)

GW MONITOR/SAMPLING INITIATED: JUNE 1991

TYPE REMEDIATION SYSTEM: NONE

DATE INSTALLED: _____ DATE SYSTEM SHUTDOWN: _____

GROUNDWATER CLEANUP LEVELS:

Group I - no off-site migration 1 ppm Total BTEX 5 ppm TPH
off-site migration probable _____
off-site migration _____

Group II - no off-site migration _____
off-site migration probable _____
off-site migration _____

Group III - no off-site migration _____
off-site migration probable _____
off-site migration _____

Target Cleanup Levels (GW): benzene _____
BTEX _____
TPH _____

FINAL GW CONTAMINANT LEVELS: (ppm)

MW-1 1995

Maximum benzene ND
Maximum BTEX ND
Maximum TPH ND

WAS WATER LEVEL ABOVE WELL SCREEN IN ANY OF THE MONITOR WELLS DURING THE LAST FOUR SAMPLING EVENTS: NO

HAS THE PLUME BEEN DEFINED: Yes ✓ No ____

TARGET CLEANUP LEVELS FOR GW REACHED: Yes ✓ No ____

FINAL DISPOSITION OF WASTE: YES ✓ NO ____

ALL SITE WELLS PLUGGED - FSC SUBMITTED: Yes ____ No ✓

JUSTIFICATION FOR CLOSURE: CONTAMINATION SEEMS CONFINED TO FORMER TANK PIT AREA AT A DEPTH OF 30-34'. GW RECHARGE IS SLOW. ONLY ONE WELL HAS MADE WATER AT THIS SITE. No H2O WELLS W/1 1/2 MILE. TANK PIT TO BE COVERED BY CONCRETE WHICH WILL GREATLY REDUCE INFILTRATION.
1995 SOIL BORING IN TANK PIT INDICATED 10 ppm TPH @ 28' and ND @ 30'
CONTAMINATION REMAINS AT SITE BUT DOES NOT WARRANT ADDITIONAL WORK IN MY OPINION. SEE IOM 8/25/95

REASON FOR NOT CLOSING: ____

MONITOR WELL SUMMARY
LPST ID No. 94360

MW ID	Date Drilled	Date Plugged	Total Depth (ft. bgs)	Screen Interval (ft. bgs)	Highest Water Level (ft. bgs)
MW-1	6/91		35	5-32	27.30

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

TELEPHONE MEMO TO THE FILE

94360

Please complete with typewriter or black pen.

Call to: Daniel Benson

Call from: Ken Cave

Date of call: July 13 1995

File no.: 94360

Phone no.: (?)

Subject: Closing LPST site - additional activities

Information for file: We discussed site history and he indicated RP was now ready to perform corrective action. I ask him to submit LARF and workplan. If RP wants to seek reimbursement, submit cost proposal using new forms. RP is to suggest next course of action; we are no longer writing directives for next phase of corrective action. He wants to drill 3 confirmation borings and if below "30/100" submit SCR. I said fine. Since there is one MW on-site it should also be sampled. He seems to think contaminants are localized to UST field (former), ground water is at 30 feet bgs, and recharge is slow. Two UST were removed from site in early 1990's. I will send him our current guidance on soil and gw sampling, action levels, and 4.0 SCR form.

Signed Daniel Benson.

John Hall, *Chairman*
Pam Reed, *Commissioner*
R. B. "Ralph" Marquez, *Commissioner*
Dan Pearson, *Executive Director*

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

September 8, 1995

Mr. Dudley Snyder
New Braunfels Smokehouse
441 North Guenther Road
New Braunfels, Texas 78130

Re: Subsurface release of Gasoline at the New Braunfels Smokehouse Facility, 441 North Guenther Road, New Braunfels (Comal County), Texas
(LPST ID No. 94360 - Priority 4.0)

Dear Mr. Snyder:

We have completed our review of the investigation and remedial activities addressing subsurface contamination at the above-referenced facility as provided in the August 10, 1995 closure request prepared by your consultant, Simpson Group, which has been submitted to our Office. Based upon this and other information available to us, we concur that your response has been satisfactory and no further remedial action is necessary.

Please be advised that all monitor wells which are not now in use and/or will not be used in the next 180 days must be properly plugged and abandoned pursuant to Chapter 32.017 of the Texas Water Code and in accordance with Title 30, Texas Administrative Code (TAC), Section 338.48-338.50. Plugging and abandonment reports (Form No. WWD-009) are required to be submitted to the Water Well Drillers Program of the Texas Natural Resource Conservation Commission (TNRCC) within thirty (30) days of plugging completion. If you have any questions regarding the future use of an existing monitor well, please contact the TNRCC Water Well Drillers Unit of the Occupational Certification Section of the Environmental Training Division at 512/239-0530.

Upon completion of well plugging activities, a *Final Site Closure Report*, with attached copies of the aforementioned plugging reports, should be completed and submitted to this Office to document actual site closure. For sites which are eligible for reimbursement through the Petroleum Storage Tank Remediation Fund, written pre-approval is required prior to initiation of site closure activities in order for the associated costs to be reimbursed.

Should you have any questions, please contact Mr. Daniel Benson of my staff at 512/239-2200. **Please reference the LPST ID Number when making inquiries.** Your cooperation in this matter has been appreciated.

Sincerely,

Chet Clarke, Manager
Responsible Party Remediation Section
Petroleum Storage Tank Division

WDC/DRB/JB/msl
94360.fnw

cc: Henry Karnei, TNRCC Region 13 Field Office, 210/490-3096
140 Heimer Rd., San Antonio, Texas 78232-5042
Steve Wiley, TNRCC Occupational Certification Section

August 31, 1995

Daniel Benson, Corrective Action Coordinator
TNRCC
P. O. Box 13807
Austin, Texas 78711-3087

Re: New Braunfels Smokehouse LPST ID 94360, Facility ID 0015453

Mr. Benson,

In reference to the additional questions concerning the KEI reports / investigation for the above site we are submitting the data gathered from the KEI reports. In addition we are including the depth to groundwater in the existing monitoring well (MW-1). The water level in MW-1 on July 30, 1995 was 29.8 feet below the surface. Using the datum level in the KEI report of 99.99 feet yields an elevation value of 70.19 feet. Soil contamination levels at the time the tanks were excavated from the site were listed in the KEI report as follows:

SAMPLE AREA	BTEX in ppm	TPH in ppm
North Wall 6-8 feet	1.739	11.7
South Wall 6-8 feet	0.123	4.4
East Wall 4-8 feet	487.1	1739
West Wall 7 feet	0.015	not detected
Bottom of Excavation 8 feet	19.93	94
East Wall 10-11 feet	3.04	7.5
Bottom of Excavation 11 ft	84.16	173.33
Bottom East End 22 feet	45.96	238.1
Bottom West End 22 feet	0.142	1.22

According to the KEI report approximately 240 cubic yards of soils were removed from the site to the Comal County Landfill. Approximately 177 tons of fill material was imported to the site from

Brauntex Materials, Inc. And used to backfill the tank excavation. Copies of the waste manifests and trip tickets for backfill material are presented in Appendix D of the first KEI report.
A second investigation performed by KEI in submitted in August of 1991 included laboratory results for the two soil borings (TH-1 and TH-2) as well as installation of a monitoring well. Laboratory results in this report indicated TH-2 to have contamination levels of 17.2 ppm BTEX, and 31.008 ppm TPH for soils analysis. Water samples from monitoring well 1 were performed on 6/10/91, 6/26/91, and 7/11/91. The 6/10/91 water sample indicated 0.001 ppm total BTEX, and 2.076 ppm TPH. Subsequent water samples did not show any contamination levels for TPH and BTEX.

Sincerely,
W. E. Simpson Company, Inc. (RCAS 00359)

Kenneth M. Cave (CAPM No. 00462)
Senior Environmental Scientist

Simpson Group
Engineers • Architects • Surveyors • Scientists

Fax Transmittal

To: Daniel Benson
TNRCC

Date: 9/1/95 Project Number: NB5001AA

Project:
New Braunfels Smokehouse
LPST 94360

Receiving Fax Number:

Fax Operator (512)239-2216

Sheets to follow: Two

Subject/Remarks:

Mr Benson,

Here is the additional information you requested concerning the New Braunfels smokehouse closure request.

Copies to:

From:

7073 San Pedro Avenue
San Antonio, Texas 78216-6280

Automatic Fax Number (24 hours): 210/340 5751
Office Number (8:00a-5:00p Central): 210/340 2216

[redacted]S NATURAL RESOURCE CONSERVATION COMM[redacted]N

TELEPHONE MEMO TO THE FILE

Please complete with typewriter or black pen.

Call to: Ken Cave (Simpson Group) Call from: Daniel Benson

Date of call: 31 Aug 95 File no.: 94360

Phone no.: (210) 340 7216 Subject: Analytical Results from UST removal & Recent GW Sampling

Information for file: Mr. Cave indicated lab results from most recent sampling event included MW-1; however in his report and on the COC (chemron), the gw sample identification is NBS-001-A. This sample was obtained on 7/29/95 from MW-1 rather he was contacted by lab (Chemsolve) that gw samples from MW-1 (7/20/95) ~~was~~ could not be used because of a broken cap on sample's container. (See Chemsolve COC 7/25/95).

He also indicated soil samples had been obtained following UST removal and after overexcavation. He will forward report of results which was not found in LPST file. Approximately 240 cyds were overexcavated from UST pit and this soil was taken to land fill. He will include waste manifest w/ analyticals he is sending. I told him that I would finish my review for closure when I received the information. The 4.0 SCR form of 8/10/95 indicated a well was installed in 1994, however this was incorrect and the well (is was MW-1) installed in 1991.

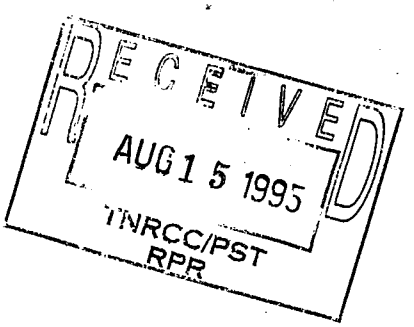
Signed Daniel Benson.

Simpson Group
Engineers • Architects • Surveyors • Scientists

DRB

94360 SCR Quest

August 10, 1995



Daniel Benson, Corrective Action Coordinator
Responsible Party Remediation Section
Petroleum Storage Tank Division
Texas Natural Resource Conservation Commission
P. O. Box 13087
Austin, Texas 78711-3087

Reference: Priority 4 Closure Request
New Braunfels Smokehouse
LPST ID ~~94603~~ 94360
Facility ID 0015453

Dear Mr. Benson:

As per my action request letter of July 18 and our subsequent telephone conversations, we have completed a confirmation investigative sampling effort at the referenced project site in New Braunfels. Enclosed herewith is the closure request form and its associated attachments. We are hereby requesting closure of this site for the following reasons; the fuel source has been removed, contaminated soils have been physically removed, residual contaminant concentrations are very low and confined within deep clay, and there is no impact to groundwater.

It should be noted that although all soil contamination levels are low and no groundwater is known to exist at the tankhold site, a pocket of moisture was encountered in the recent drilling at Soil Boring Site No.1. It is theorized that during the months that the overexcavated tankhold was open and receiving rainwater, some water was trapped and concentrated within the clay tankhold bottom. Its movement would be very slow through the heavy clay and may have collected in pockets of slightly differing porosity. This one site was selected as being immediately adjacent to the old tankhold. But, based on cuttings and cores, it appears to be within the boundary of the tankhold. Other borings and observations substantiate that no groundwater exists at the tankhold site.

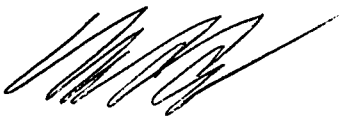
The former tankhold and surrounding area will be covered with a concrete foundation thereby minimizing future soil flushing. No fuel storage activities will be conducted at this site. Concurrent with the impervious cover placement, it is planned that the existing Monitoring Well No.1 will be closed in accordance with State criteria.

7073 San Pedro San Antonio, Texas 78216-6280 (210) 340-2216 Fax (210) 340-5751
OFFICES IN SAN ANTONIO AND CORPUS CHRISTI

W.E. SIMPSON COMPANY, INC.
ESTABLISHED 1909

The management of New Braunfels Smokehouse wishes to bring this matter to a rapid close so that they can proceed with the planned facility expansion. Your assistance in this matter is appreciated. If additional information is required, please let me know as soon as possible.

Sincerely,
W. E. Simpson Company, Inc. (RCAS 00359)



Kenneth M. Cave (CAPM No. 00462)
Senior Environmental Scientist

Enclosures

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION
PETROLEUM STORAGE TANK
PRIORITY 4 LPST CASE CLOSURE REQUEST FORM

Submittal Date: 8-10-95

This form is to be used to request closure for Priority 4 LPST sites. The soil and groundwater cleanup goals should be me prior to submitting this form. These cleanup goals should be derived from the TWC Guidance Manual for LPST Cleanup in Texas, January 1990 or the TNRCC Risk-Based Corrective Action for Leaking Storage Tank Sites, January 1994. **Do no use this form for tank removal-from-service activities or if appropriate LPST cleanup goals have not been met.**

Complete all blanks and check yes or no for all inquiries. If the question is not applicable to this site, indicate with N/A If supplemental information is needed, insert numbered footnote and provide brief supporting discussion in Section V Justification for Closure.

RECEIVED
AUG 15 1995
TNRCC/PST
RPP

94360

I. GENERAL INFORMATION

LPST ID No.: ~~94603~~ Facility ID No.: 0015453

Responsible Party: New Braunfels Smokehouse

Facility Name:

Facility Address: 441 North Guenther

Facility City: New Braunfels County: Comal

What is the current use of site? (Type of business, etc.): Smokehouse for ~~restaurant~~ business

II. CLOSURE SCREENING INFORMATION

Based on the TNRCC Limited Site Assessment (LSA) or existing case questionnaire, the site is a Priority 4 site.

☐ Yes ☒ No Have phase-separated hydrocarbons (PSH) ever been present at this site? If yes, is PSH present now? ☐ Yes ☐ No Thickness _____ feet.

☒ Yes ☐ No Has the source of the release been abated? If yes, specify date: Tank removed 11-28-89

☐ Yes ☒ No Have vapor impacts ever been associated with this release?

☐ Yes ☒ No Have subsurface utilities ever been affected by this release?

III. RELEASE ABATEMENT/REMEDIATION

Date Release Discovered: November 28, 1989

Substance(s) Released: gasoline

Source of Release (specify portion of PST system, if known): unknown - probably tank

Line leak

LPST ID NO. ~~94603~~ 94360 Date: 8-10-95

III. RELEASE ABATEMENT/REMEDIATION (Continued)

☒ Yes ☐ No Has the PST system from which the release originated, been permanently removed from service at the site? If yes, specify date of removal: 11-28-89 Type of removal from service:

☒ Yes ☐ No Were soil samples collected from beneath the UST and the piping?

☒ Yes ☐ No Were soil samples collected from beneath the dispensers?

☐ Yes ☒ No Was a new UST system installed?

Type of Soil Remediation: Over excavation

Type of Groundwater Remediation: No groundwater

Measured volume of PSH recovered None gallons.

Estimated total volume of soil treated/removed: 240 cubic yards.

Estimated total volume of groundwater treated/removed: 0 gallons.

IV. SOIL DATA VALIDATION

Number of soil borings: 4 (1995)

☒ Yes ☐ No Was the extent of soil impacts defined by the borings?

☐ Yes ☒ No Are shallow (0-15 feet) soils affected on adjacent properties (including right-of-way).

☒ Yes ☐ No Were all soil sample collection, handling, transport and analytical procedures conducted in accordance with TNRCC requirements?

☒ Yes ☐ No Were all regulated soil wastes properly disposed of, treated, or reused in accordance with TNRCC requirements?

Soil	Sample Date	Sample Name	Depth	Laboratory Method	Maximum Concentration* (ppm)	LPST Cleanup Goals
Benzene	7-20-95	B-1	32'	8020	0.44 ppm	.500 ppm
Toluene	7-20-95	B-1	32'	8020	0.037 ppm	100 ppm
Ethylbenzene	7-20-95	B-1	32'	8020	.059 ppm	70 ppm
Total Xylenes	7-20-95	B-1	32'	8020	.147 ppm	560 ppm
Total BTEX	7-20-95	B-1	32'	8020	.700 ppm	730.5 ppm
TPH	7-21-95	MW-2	32.5'-34.5'	418.1	55 ppm	100 ppm
Other						
Other						

* Enter maximum soil analytical results for soils remaining beneath the site.

LPST ID NO. ~~94603~~ 94360 Date: 8-10-95

V. GROUNDWATER DATA VALIDATION

☐ Yes ☒ No Does the assessment data indicate that groundwater at the site is impacted? If no, go to Section VI.

Number of monitoring wells: _____

Measured groundwater total dissolved solids (TDS) concentration _____ mg/l.

Measured groundwater yield at the site _____ gallons/day.

Measured groundwater depth at the site ranges between _____ and _____ feet below the top of casing.

Time period of groundwater monitoring at the site (date) _____ to _____.

Total number of groundwater monitoring events during this period _____

☐ Yes ☐ No Is the extent of groundwater contamination defined?

☐ Yes ☐ No Based on available site assessment data, have any water wells or surface water bodies been impacted by this release?

☐ Yes ☐ No Have groundwater impacts from this release been detected on adjacent properties?

☐ Yes ☐ No Was the static groundwater level above the top of the well screen in any wells during the previous 12 months of monitoring?

☐ Yes ☐ No Were groundwater sample collection, handling, transport, and analytical procedures conducted and documented in accordance with TNRCC requirements?

☐ Yes ☐ No Was all recovered contaminated groundwater properly disposed of, treated or recycled in accordance with TNRCC requirements?

☐ Yes ☐ No Do contaminant concentrations show a consistent decreasing or low static trend? If no, is contaminant plume increasing in size? ☐ Yes ☐ No

☐ Yes ☐ No Are the monitoring wells going to be used after LPST site closure?

Groundwater	Sample Date	Sample Name	Laboratory Method	Maximum Concentration* (ppm)	LPST Cleanup Goals
Benzene					
Toluene					
Ethylbenzene					
Total Xylenes					
Total BTEX					
TPH					
Other _____					
Other_____					

* Enter maximum groundwater analytical results from the most recent 12 months of monitoring.

LPST ID NO. ~~94603~~ 360 Date: 8-10-95

VI. JUSTIFICATION FOR CLOSURE

Please provide a brief summary supporting this request for site closure including footnoted discussions for the above entries, as necessary. Include discussions justifying any site conditions which may deviate from the specific qualifications of this form.

Both tanks, gasoline and diesel, were removed on November 28, 1989, at which time minor soil contamination was discovered. Overexcavation removed most contamination. No further use of the site will involve ~~petroleum~~ hydrocarbon substance storage. Minor soil contamination remains in heavy clay at a depth of about 30 to 32 feet. Total BTEX, TPH and individual BTEX constituents are all below action levels in the deep clay. Beneath the 32 foot depth zone, clays show attenuation and greatly reduced contaminant levels. No shallow (below 15' depth) soil contamination is present. No groundwater is present at the release site. Future site use will involve covering the old tank site with an impervious cover (building expansion). Potential for downward migration of minor contamination will, therefore, be reduced.

A pocket of water was found in the B-1 boring (at edge of tankhold) at about 32 - 34 feet. It is theorized that the open tankhold had trapped some water while open for months in 1989-1990. Adjacent borings confirm no presence of groundwater at or below this pocket. The moisture is inconsequential with regard to contamination. The potentially downgradient monitoring well installed in ~~1994~~ 1991 has never shown detectable quantities of contaminants at any ~~sampling~~ events subsequent to initial well development.

ATTACHMENT K

TCEQ FILES – IHWCA RECORDS

IHW T-2453-00

Bryan W. Shaw, Ph.D., *Chairman*
Buddy Garcia, *Commissioner*
Carlos Rubinstein, *Commissioner*
Mark R. Vickery, P.G., *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

September 21, 2010

RECEIVED
OCT 07 2010
TCEQ
CENTRAL FILE ROOM

Mr. Tom Granger
Midwikis & Granger, Inc.
700 Lavaca, Ste. 740
Austin, Texas 78701

Re: Approval of Closure Report – Release Not Subject to TRRP
Limited Site Investigation Report, May 12, 2010; and *Response to TCEQ June 25, 2010 Comments,* dated July 26, 2010
Landa Plaza Shopping Center, 315 Landa Street, New Braunfels, (Comal County, Texas)
TCEQ Facility ID No.T2453
Customer No. CN603673120; Regulated Entity No. RN105929384

Dear Mr. Granger:

The Texas Commission on Environmental Quality (TCEQ) has reviewed the above referenced reports received by the Remediation Division on May 13, 2010 and August 4, 2010, respectively. The site consists of a shopping center occupied with dry cleaners, take-out restaurant, photographic film processing facility, pharmacy and other retail stores. During the investigation soil and groundwater samples were collected and analyzed for total petroleum hydrocarbons (TPH), volatile and semi volatile organic compounds, and metals. TPH was detected in soil sample from boring B-1 collected at depth of 24-26 feet below ground surface (BGS), and in groundwater sample from MW-1 located in the northwest corner of the site. The TPH originated from the former upgradient, off-site leaking petroleum storage tank (LPST) facility (LPST ID Nos. 99614 and 94953). On behalf of the property owner Landa Plaza Partners GP, LLC., Terracon Consultants Inc. submitted an application to the TCEQ Innocent Operator Program (IOP) on June 22, 2010 under IOP No. 751 for the petroleum hydrocarbon contamination. The TCEQ determined that Landa Plaza Partners GP, LLC. met the IOP requirements and was issued an Innocent Owner certificate on September 9, 2010 pursuant to §361.753 of the Solid Waste Disposal Act, Texas Health and Safety Code.

Results of the investigation also indicate that concentrations of tetrachloroethene (PCE), arsenic, lead, and mercury were detected in soils exceeding the residential Tier 1 soil-to-groundwater ($^{GW}Soil_{ING}$) Protective Concentration Level (PCL). Samples with the highest concentration of PCE, arsenic, lead and mercury were then analyzed for synthetic precipitation leaching procedure (SPLP), the results of which were less than its respective residential Tier 1 groundwater ingestion ($^{GW}GW_{ING}$) PCL. Results of the on-site groundwater investigation also indicate that metals, volatile and semi-volatile organic compounds were less than the Tier 1 residential ($^{GW}GW_{ING}$) PCL.

The above referenced reports documented that concentrations for Landa Plaza Shopping Center, 315 Landa Street, New Braunfels, Texas are below the action levels established by the TCEQ guidance, *Determining Which Releases are Subject to TRRP*, dated October 21, 2003. Based on the information contained in the report and other information available to staff, the TCEQ accepts the closure of the site.

Please be aware that it is the continuing obligation of persons associated with a site to ensure that municipal hazardous waste and industrial solid waste are managed in a manner which does not cause the discharge or imminent threat of discharge of waste into or adjacent to waters in the state, a nuisance, or the endangerment of the public health and welfare as required by 30 Texas Administrative Code (TAC) §335.4. If the activities described in the report fail to comply with these requirements, please take any necessary and authorized action to correct such conditions. A TCEQ field inspector may conduct an inspection of the site to determine compliance with the report.

Questions concerning this letter should be directed to me at (512) 239-2034 or by e-mail: mhatfiel@tceq.state.tx.us. When responding by mail, please submit an original and one copy of all correspondence and reports to the TCEQ Remediation Division at Mail Code MC-127 with an additional copy submitted to the local TCEQ Region Office. Please note that the Remediation Division has instituted a policy of sending letters via Portable Document Format (PDF) and email when appropriate. Therefore, current email addresses and the site identification information in the reference block should be included in all future submittals.

Sincerely,

Maureen Hatfield, P.G.,
Sr. Project Manager
Corrective Action Team 2, VCP-CA Section
Remediation Division
Texas Commission on Environmental Quality

MH/jdm

cc: Mr. John Anderson, Waste Program Manager, TCEQ Region 13 Office, San Antonio

terracon

July 28, 2010

T2453 CO
ARTS COMM. 13162336 RP
PROJ. MGR. M Hatfield

Ms. Maureen Hatfield, P.G.
Senior Project Manager
Remediation Division
Texas Commission on Environmental Quality
MC 137
P.O. Box 13087
Austin, Texas 78711-3087

Received
OCT 04 2010
Remediation Division
Corrective Action

Re: Response to TCEQ Comments Regarding the Limited Site Investigation Report
dated May 12, 2010
Landa Plaza Shopping Center
315 Landa Street
New Braunfels, Comal County, Texas
TCEQ Facility ID No. T2453
Customer No. CN603673120
Regulated Entity No. RN 105929384
Terracon Project No. 90107096

RECEIVED
SEP 23 2010
TCEQ
CENTRAL FILE ROOM

Dear Ms. Hatfield:

On behalf of the Landa Plaza Partners GP LLC, Terracon Consultants, Inc. (Terracon) has prepared this letter to respond to the Texas Commission on Environmental Quality (TCEQ) comments contained in the letter dated June 25, 2010, regarding the above-referenced site. Following are Terracon's responses to the comments:

TCEQ Comment No. 1: *If the gasoline-range petroleum hydrocarbons detected in soil samples from boring B-1 are likely the result of release(s) from the adjacent former petroleum storage tank (PST) property which migrated on-site, then additional supporting documentation is needed. Provide a detailed discussion on off-site source with supporting documentation on the status of assessment and/or cleanup of the LPST site, name of company, PST and/or LPST facility number, assessment and current remediation report(s), etc. The TCEQ needs the additional information to verify that an off-site source of petroleum hydrocarbon contamination has impacted the subject property. The additional information is also needed for the TCEQ to consider the request for no further action, and verity that an off-site release is being, or has been managed under an appropriate TCEQ cleanup program.*

Response: Terracon conducted a Phase I Environmental Site Assessment (ESA, Terracon Report No. 90107059 dated March 19, 2010) for the City of New Braunfels. A copy of the report on a CD is attached to this letter. The ESA identified the former Landa Texaco, located at 385 Landa Street and approximately 110 feet northwest and up-gradient from the site, as a PST facility (Facility ID No. 25898) and an LPST facility twice (LPST ID Nos. 99616 and 94953). The facility formerly operated five USTs as follows:

No.	Capacity	Substance Stored	Installation Date	Removal Date
1	2000 gallons	Gasoline	1966	1991
2	2000 gallons	Gasoline	1966	1991
3	8000 gallons	Gasoline	1976	1991
4	4000 gallons	Gasoline	1971	1991
5	2000 gallons	Gasoline	1966	1990

Final concurrence for case closure was given to the responsible parties by the TCEQ as a "soil only" contamination site. Based on Terracon's experience investigating LPST facilities that were closed during the early 1990s, when the action levels were higher than those used now, impact to groundwater often went undiscovered at sites that were closed as impact to soil only. Based on the age of the USTs and the time frame that the site was closed, Terracon identified the off-site LPST facility as a recognized environmental condition (REC) to the site. The Limited Site Investigation was conducted in an effort to identify if chemicals of concern (COCs) released from the offsite LPST facility had migrated onto the site. Based on the groundwater flow direction to the southeast (groundwater flow direction map attached), and the decrease in concentration of total petroleum hydrocarbons (TPH) from the northwest to the southeast (1.2 milligrams per liter (mg/l) to 0.82 mg/l), it is our opinion that the petroleum hydrocarbons detected in soil and groundwater at the site in the northwest area of the site originated from the offsite LPST facility. In addition, Terracon did not identify evidence that a PST facility had ever been operated at the site

TCEQ Comment No. 2: *Discuss the selection of soil samples numbering and sequencing of borings-1 through B-11. For example, why are there no borings B-3, B-4, B-6 through B-8?*

Response: Terracon conducted a Limited Site Investigation (LSI) at the site in April 2010 and a Supplemental Limited Site Investigation (SLSI) in May 2010. During the performance of the LSI, Terracon advanced soil borings B-1 through B-8. Soil borings B-1, B-2, and B-3 were completed as temporary groundwater monitor wells. Soil samples were collected from soil borings B-1 through B-7 as proposed. We advanced an additional soil boring near the photo-developing facility to see if there was evidence of impact and none was observed. Groundwater samples were collected from the three temporary monitor wells. A copy of the LSI is attached for your review.

During the performance of the SLSI, soil borings B-1A, B-2A, and B-5A were advanced adjacent to existing soil borings B-1, B-2, and B-5, respectively. The other soil borings were numbered sequentially from the last soil boring advanced during the LSI, B-8. Therefore, the borings advanced during the SLSI were number B-9, B-10, and B-11.

TCEQ Comment No. 3: *Provide a copy of boring logs for boring B-9 and B-10 located inside the dry Cleaner as depicted in Figure 2. If there are no boring logs provide copies of photographs of cores and/or field notes describing soil type, presence of odor, soil discoloration, PID readings, etc.*

Response: A copy of the boring logs for soil borings B-9 and B-10 are attached.

TCEQ Comment No. 4: *Provide copies of all field notes taken during soil samples, purging and sampling of temporary and permanent groundwater monitoring wells, as well as calibration reports for field instruments measurements of temperature, pH, conductivity and turbidity. The additional information is needed to verify sampling methods were adequately implemented.*

Response: A copy of the field notes and calibration logs are attached

TCEQ Comment No. 5: *The report did not include tabulated water level elevations, nor a potentiometric surface map depicting groundwater gradient and direction of groundwater flow. Please verify if the water level marks depicted in boring logs/well completion diagrams for B-1A, B-2A, B-5A and B-11 are static water level measurements obtained from completed monitoring wells using a water level meter. Also, provide field notes which summarize water level measurement readings taken.*

Response: A table summarizing the depth to groundwater measurements and top-of-casing (TOC) elevation for each monitor well is attached. The depth-to-groundwater measurements were measured using an electric water level indicator and the TOC elevations were surveyed with a surveyor's level and rod to the nearest 0.01 foot. A groundwater gradient map has been prepared showing that the groundwater flow direction is to the southeast. Therefore, the site is directly down-gradient of the former offsite Landa Texaco facility.

TCEQ Comment No. 6: *Since there is a presence of gasoline-range petroleum hydrocarbons that were detected in MW-1, was there any presence of a sheen, or light non-aqueous phase liquids present in the on-site monitoring wells.*

Response: Terracon did not observe a sheen on the groundwater or on the purge water recovered from the monitor wells. In addition, Terracon did not observe evidence of light non-

aqueous phase liquids (LNAPL) in the monitor wells or in the soil cores recovered from the borings.

TCEQ Comment No. 7: *Impacted soil exceeding the Tier 1 protective concentration levels (PCLs) or background for the applicable exposure pathway should be excavated and disposed of at the appropriate off-site permitted facility. Upon completion of excavation activities, confirmation samples should be collected to verify PCLs were met.*

Response: In accordance with TCEQ Guidance document "Determining Which Releases are Subject to TRRP" revised October 21, 2003, if concentrations of COCs exceed the method quantitation level (MQL) or background, a Tier 1 Ecological Exclusion Criteria Checklist should be completed to evaluate if ecological exposure pathways may be a concern. Terracon completed a Tier 1 Ecological Exclusion Criteria Checklist for the site, which was included in the SLSI. The results of the Tier 1 checklist documented that the site passed the exclusion criteria. COCs were not detected in groundwater at concentrations exceeding their Tier 1 groundwater PCL ($^{GW}GW_{Ing}$). In accordance with the guidance document, if COCs are detected in soil at concentrations exceeding the groundwater protection PCL ($^{GW}Soil_{Ing}$)," the person may choose to collect samples from the areas of highest concentrations for Synthetic Precipitation Leaching Procedure (SPLP) analysis to determine COC leachabiilty." Tetrachloroethene (PCE), arsenic, lead, and mercury were the only COC detected in soil at concentrations exceeding their respective $^{GW}Soil_{Ing}$ PCL. Terracon analyzed soil sample B-2A (2-4'), the sample with the greatest concentration of PCE, for VOCs using the SPLP method (1312/8260B) and PCE was detected in the leachate at a concentration less than its $^{GW}GW_{Ing}$ PCL. In addition, Terracon analyzed soil sample B-5 (0-1') for arsenic, lead and mercury, the sample with the greatest concentrations of these constituents, using the SPLP method and arsenic, lead and mercury were not detected in the leachate. Therefore, the concentrations of the COCs detected in soil appear to be protective of groundwater and in accordance with TCEQ guidance, the release is not subject to TRRP. It is our opinion that no additional response action is required.

TCEQ Comment No. 8: *For further guidance on applying to the Innocent Operator Program (IOP) can be obtained from the following web page http//home.tceq.state.tx.us/internal/enforcement/remed/iop/iop_index.html.*

Response: Terracon submitted an application to the TCEQ IOP and IOP No. 751 has been assigned to the site. The IOP application was submitted requesting an IOP only for the petroleum hydrocarbon constituents detected in soil and groundwater in the northwest portion of the site that we believe originated from the offsite LPST facility. It should be noted that none of the petroleum hydrocarbon constituents detected in soil were detected at concentrations exceeding an action level; however, the site owner and the prospective buyer, the City of New Braunfels, who is also listed on the application, desired to seek concurrence from the TCEQ that the petroleum hydrocarbons detected in soil and groundwater in the northwest area of the site

likely originated from an off-site source. The case coordinator for the IOP case is Lauren Welker (512-239-2236).

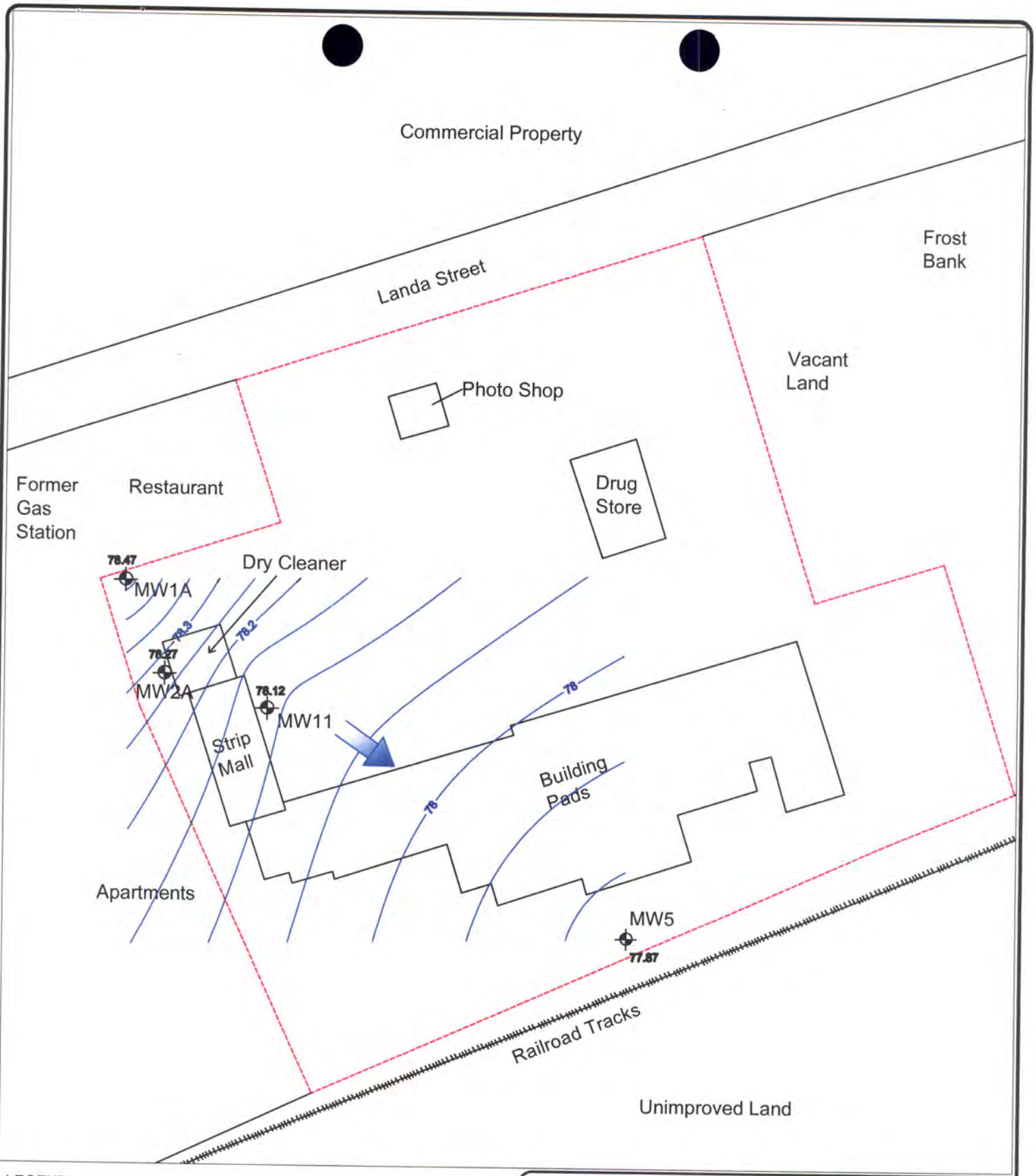
On behalf of Landa Plaza Partners GP LLC, Terracon appreciates the opportunity to work with you in resolving your comments. If you need additional information, please contact me at 210-641-2112 ext. 1240 or via email at dlgarrett@terracon.com.

Sincerely,
Terracon Consultants, Inc.

Lee Garrett, P.G.

Attachments: Phase I Environmental Site Assessment
Limited Site Investigation Report
Boring Logs for Soil Borings B-9 and B-10
Field Notes and Calibration Log

cc (w/attachments): Mr. Tom Granger, Landa Plaza Partners, LLC
Mr. Joel Anderson, Waste Program Manager, TCEQ Region 13 Office



LEGEND

- SITE BOUNDARY
- MW1A - MONITORING WELL LOCATION AND NAME
- ESTIMATED GROUNDWATER FLOW DIRECTION

NOTE: ASSUMED VERTICAL DATUM WAS SET TO 100FT. 100FT. AT THE TOP OF CASING FOR MW1A

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

N

GROUNDWATER GRADIENT MAP
LANDA PLAZA SHOPPING CENTER
315 LANDA STREET
NEW BRAUNFELS, COMAL COUNTY, TEXAS

Project Mngr: JRM	Terracon	Project No.	90107096
Checked By: JRM		Scale:	NOT TO SCALE
Approved By: JRM		Drawn By:	KKB(90)
File Name:		Figure No.	3

Terracon

TABLE 1
SUMMARY OF GROUNDWATER GAUGING

Landa Plaza Shopping Center Limited Site Investigation
315 Landa Street, New Braunfels, Texas
Terracon Project No. 90107096

Well Number	Top of Casing Elevation (Feet)	7/7/2010		5/10/2010	
		Depth to Water (Feet)	Relative Groundwater Elevation (Feet)	Depth to Water (Feet)	Relative Groundwater Elevation (Feet)
MW-1A	100	21.53	78.47	21.79	78.21
MW-2A	98.97	20.70	78.27	21.02	77.95
MW-5	98.12	20.25	77.87	20.49	77.63
MW-11	99.18	21.06	78.12	21.32	77.86

The assumed vertical datum was set to an elevation of 100.00 feet for the top of casing of monitor well MW-1A

Terracon

BORING NO. **B-10** SHEET **1** OF **1**

PROJECT **Landa Plaza Shopping Center**

LOCATION **315 Landa Street**

PROJECT NO. **90107096**

COORDINATES

SURFACE ELEVATION DATUM

LOGGED BY **JRM**

SAMPLE INFORMATION						STRATA	DESCRIPTION	ELEVATION FEET
DEPTH FEET	LAB SAMPLE	SAMPLE TYPE	USCS	Recovery %	PID (ppm)			
		GRAB	PAVE SW	100	1.4		4 inches of concrete foundation.	
							Base material (sand).	
2	B-10 2'	GRAB	CH	100	3.3		Clay (CH), black, slightly moist, high plasticity, slightly stiff.	

DRILLING CONTRACTOR

DRILLING METHOD **Manual**

BOREHOLE DIAMETER (in.) **4**

DRILLING STARTED **4/15/10** ENDED **4/15/10**

REMARKS **Used concrete coring machine to cut through foundation and drilled with hand auger to native soil.**

Notes: Boring log should not be used separately from the original report.

LAENN- NO WELL 90107096 BORING LOGS.GPJ LAEWNN03.GDT 7/29/10

Terracon

BORING NO. **B-9** SHEET **1** OF **1**

PROJECT **Landa Plaza Shopping Center**

LOCATION **315 Landa Street**

PROJECT NO. **90107096**

COORDINATES

SURFACE ELEVATION DATUM

LOGGED BY **JRM**

SAMPLE INFORMATION						STRATA	DESCRIPTION	ELEVATION FEET
DEPTH FEET	LAB SAMPLE	SAMPLE TYPE	USCS	Recovery %	PID (ppm)			
		GRAB	PAVE	100	1.1		4 inches of concrete foundation.	
			SW				Base material (sand).	
	B-9 2'	GRAB	CH	100	3.9		Clay (CH), black, slightly moist, high plasticity, slightly stiff.	
2								

DRILLING CONTRACTOR

DRILLING METHOD **Manual**

BOREHOLE DIAMETER (in.) **4**

DRILLING STARTED **4/15/10** ENDED **4/15/10**

REMARKS **Used concrete coring machine to cut through foundation and drilled with hand auger to native soil.**

Notes: Boring log should not be used separately from the original report.

LAENN- NO WELL 90107096 BORING LOGS.GPJ LAEWN03.GDT 7/29/10

9010 7054 Vicycuro GA
3/12/10 Weather: Sunny. 74°
Mileage: 8+8=16

SF17 CD, OV 11×7×1 34.6 20.3"
closed depression ~25' WNW of ☒6045 (15" Oak)

SF18-20 CD 8×6×0.75 34.8" 17.8"
3 Closed Depressions about 10-15' apart
Filled w/ 1-4" clay, some gravel. Grasses and numerous oak saplings. Bottoms can be probed ~8" w/ machete.
Just west of oak ☒6085

SF21 CD 15×10×0.5 35.8" 17.4"
O,L,V
Small Cedar, mesquite, prickly pear, oak, weeds, grass

SF22 SF 12×5×0.5 36.6" 17.4"
O,V,L Bearing: 38-54° Aperature: 1"
Density: 1-2/ft

Cedar Preserve,

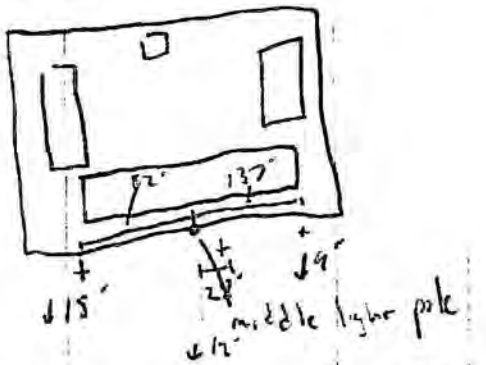
SF23 SL 1×.75×1 40.4 22.7
O,V (Grass, weeds)

SF24 CD 6×4×1 41.0" 22.1"
O,L,V (weeds, woody shrubs)
Could be Sat. ~3" clay

9007070 Landa Plaza Shopping Center
3/18/10 Mileage: 62
Weather: Sunny, wind 50-75°

7:00 Mob to site
7:30 Arrive @ site unload gear
7:35 Vortex arrives @ site, unloads probe and gear.
8:37 Begin drilling B-2 (back door of Dry Cleaners)
10:10 Start purging/Developing MW2 (B-2)
11:10 Start developing/purging MW1 (B-1)
1:45 Visit w/ Sprint locators to show us his FO cables in the area
12:10 Set up @ MW2 to sample
Down year. Check calibration for Horiba U-22. Calibration is OK 1:10
12:20 lunch
12:50 lunch over
13:11 Horiba quits working. Furr west will bring new instrument out.
14:00 John (Furr West) arrives w/ a calibrated Horiba U-52
14:18 Begin sampling MW2 (B2)

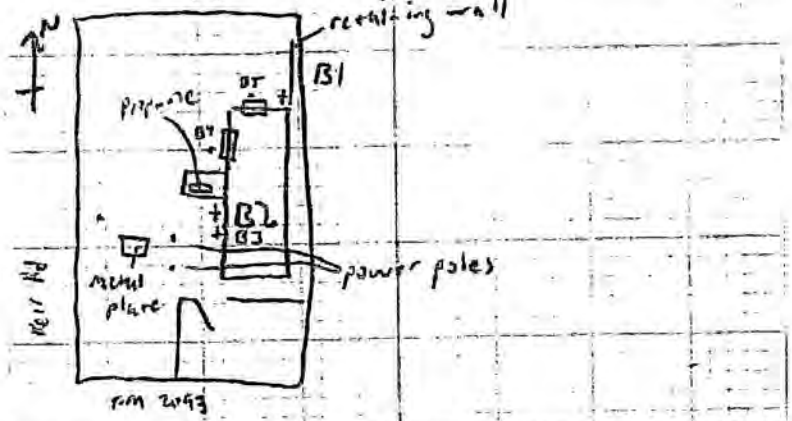
14:55 Collect Sample @ MW2
15:55 Finish collecting MW2 sample
15:59 Mob to MW1, decon gear
16:11 Begin sampling MW1
16:45 Collect water Sample @ MW1
17:25 Begin sampling MW3
12:30 Plug MW1
17 54 MW3 water Sample collected.
18:15 Plug MW3
18:20 Seal drums (1 soil (75% full), 1 GW (~10 gallons))
18:31 Finish packing up gear
18 50 Measure Southern borings
19 10 Demob from site



19:55 Drop off samples @ Fed EX
20:10 Arrive @ office

90107065 Road name
mileage: 684 + 71 = 142
weather: 45° - 70° cloudy, v. windy

6:10 Mob to site
7:30 Arrive at site
7:50 UA land gear
8:10 Check calibration on PID. Reads 100.8. Calibration ok.
8:20 Start drilling B-1
9:00 Install well as B1 (TW1) 15' screen 8' riser sand 6-23
9:28 No water w/in TW1
9:34 Mob to B2. Begin drilling
10:15 Check PID calibration. Reads 101.6 - 98.9.



10:31 Set 20' screen 15' riser @ TW2. no sand
10:44 Collect sample B2
10:49 start looking for Septic tank
11:07 Septic tank found
11:49 Septic tank is over a buried metal plate. Continue looking for tank by hand

12:23 Depart for lunch
12:42 Mob to MW 2
13:12 began to rain hard. Stopped @ 13:20
*13:22 MW 2 collected
13:50 Mob to MW 7R
*14:25 MW 7R collected
14:42 Mob to MW 9
14:50 Light rain
15:00 Rain stops
*15:13 Sample MW 9 collected
15:27 Moderate rain
15:59 Depart from site to Fedex
16:30 Drop off samples @ Fedex
16:45 Arrive @ office.

4/14/10 weather: overcast, sl. breeze, 05-7°

7:45 Mob to site
8:17 Arrive @ MW 15. unload gear
8:40 Check calibration on Horiba. Cal. ok.
8:51 begin sampling @ MW 15
*9:15 MW 15 sample collected
9:40 Mob to MW 12
9:57 Start sampling MW 12
*10:11 Sample MW 12 collected
10:45 Mob to MW 13R
*11:08 Field Blank collected

1 4 7 5R 7R 9 11 12 13R 14 15 16

*11:30 Sample taken @ MW 13R
11:45 Depart for lunch.
12:06 Arrive @ MW 6R
*12:42 MW 6R collected
13:04 Mob to MW 11
13:20 Begin sampling MW 11
*13:55 Sample MW 11 taken
14:20 Mob to MW 4
*15:35 MW 4 sample collected
*15:50 Equip. Blank collected
14:01 Depart from site to Fedex

90107097 Landa Plaza Supplemental Env.
4/15/10 weather:

7:00 Mob to site
7:45 Arrive @ site
8:10 Safety meeting
8:25 Start drilling B11
8:45 Water at San Antonio arrives.
9:55 Calibrate PID.
10:10 Light rain. B11 only at 35'
11:40 Set well at B11. 25' screen. 20/40 sand 16-45, bentonite 1-16, concrete 0-1
11:43 Hole collapse. redrilling to remove slurry
12:10 Moderate rain
1:50 B11 41-44 collected
11:58 B11 31-34 collected

12:10 Still dealing w/ stuck in mw11.
~13:00 Bit unstuck in mw11. Heavy rain fall.
13:32 Still pulling augers from mw11
Heavy rain over
~14:00 Augers out
~~14:15~~ 14:15 Mob to South side of site to build decon pit
14:32 Decon augers
15:25 Mob to MW2A (B2A) Dry cleaner
17:18 Drilling ongoing @ B2A. Depth ~38'
18:30 Begin demob well
19:06 J. on leaves w/ samples → 14:47 well set
20:00 Demob from site
20:50 Arrive @ Lowe

4/16/10 weather: overcast, humid, rain, ~70°
6:40 Mob to site
7:17 Arrive @ site
7:30 Mark B5A along S boundary of site.
7:[illegible] T.S. arrives @ site
8:03 Begin decon of augers
8:15 Move drums from B11 to storage location in NW corner of site
8:34 Drums moved from B11
8:36 Decon complete. Mob to B1A
8:40 Cable to hammer on rig tweaked/broken
Efforts begin

1:10 calibrate PID
9:20 Start drilling B1A
12:17 TD is 42' @ B1A
12:15 Begin setting well @ MW1A
12:30 lunch
13:00 Continue setting well @ B1A (MW1A)
14:00 well set @ MW1A
14:15 Decon Augers
14:18 I begin hand digging @ ~~B5A~~ B5A
14:40 Nathan arrives w/ more sand
15:00 Mob to ~~B5A~~ B5A
15:07 Check PID calibration. Reads 9.84. Cal. is OK.
~~17:12~~ 17:12 TD = 42.5', retract @ B5A
17:19 Begin setting well @ MW5A
19:30 well set @ MW5A
19:35 Instructions for well pads/demob left w/ Craig (TSS)
18:45 Demob from site
19:45 Sample drop off to Fedex

4/19/10
9:45 Mob to Fort West
10:30 Mob to Site from Fort West
10:55 Arrive @ Site Painters are @ site painting parking spaces

Noticible petrol odor present around MW11. Will hold off on sampling/purging MW11 until fuel smell is gone.

11:35 Purge MW5A
12:10 check MW2A w/ bailer. No product noted.
12:22 check MW1A w/ bailer. No free product noted. Heavy petroleum odor.
12:30 Purge MW2A
13:01 Purge MW1A
13:37 Check paired area well MW11
13:50 Mob to MW5A. Decon gear. Unload gear.
14:25 Calibrate Horiba U-50.
14:35 Start sampling MW5A
*17:10 MW5 collected (metals were filtered since turbidity was 442 NTU)
17:24 Pump trunk in well MW5. Begin trying to pull it out
18:40 Pump unstuck. Pack up gear.
19:00 Demob from site
19:51 Drop off samples @ Fedex
20:15 Arrive @ office

4/20/10

5:24 Mob to site
6:04 Arrive @ site. Unload gear @ MW11
6:15 Purge MW11
6:52 Decon pump + Horiba
7:15 Calibrated Horiba
7:19 Begin sampling MW11
*8:57 Collect MW11. Filtered metals since turbidity was very high. Sample was taken sooner than I had liked since crews showed up ready to pour asphalt ramps for demolition.
9:01 Load gear
9:20 Mob to MW2A
9:27 Decon pump + Horiba
9:44 Begin sampling MW2A
*10:08 Field Blank collected between exhaust fan and back door of Dry Cleaner (~6' from MW2A)
*11:02 MW2A sample taken.
11:25 Load up gear
11:45- Lunch
12:05- Lunch over. Mob to MW1A
13:11 Battery dead.
~14:00 Battery jumped sampling of MW1A continues
15:16 Tech shows up w/ Battery + charger
James
*15:39 Sample collected from MW1A Filtered for metals due to high (140 NTU) turbidity.
16:00 Clean up. Pack up gear. Decon Horiba/bladder pump. Seal drums.

16:50 Mob to ~~that for Gob, copy~~ Fedex

17:50 Mob to office

4/22/10

12:15 Mob to Fairlawn

13:05 Arrive @ site

13:33 Start sampling ~~MW5A~~ MW 5A 2' from top of water

13:57 Sample MW 5A collected

9/10/11 Cartersville DeVan Clinic

7:30 Arrive on site

9:40 Go get DI water

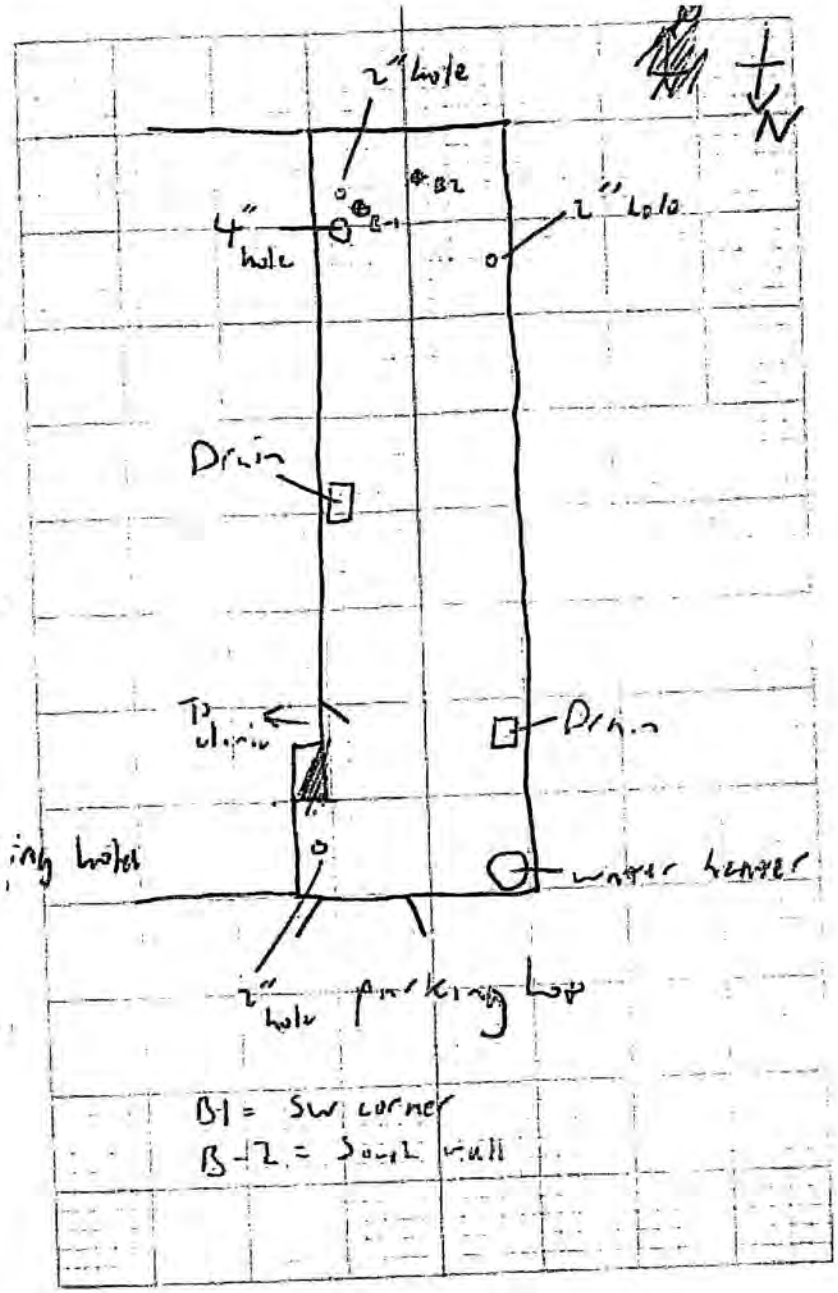
10:00 Return to site

10:15 Collect SE corner sample, near 2 existing holes

10:30 Collect South wall sample, NE-crack

10:42 Clean up. Load gear

11:00 Demob from site



10:06 Mob to MW14
11:15 Gary Hayes (AZW) stops by to check on progress.
10.19 Gary leaves
10:19 Dean Horiba
10.23 Begin sampling MW14
*12:15 Sample MW14 collected
12:58 Dean Horiba
13.32 Pack up gear
13:17 Dump purge water into 55 gal drum
13 24 Demob from site
13 39 Arrive @ office

9010 7096 Linda Plaza Shopping Center LSD
5/9/10 weather: overcast, windy, 85°
15:00 Mob to site
15:49 Arrive on site Unload gear
16:31 Dean + Walt brave Horiba
16.38 Begin sampling MW2A
*16:36 Sample MW2A collected
16:43 Dean Horiba Pack up gear
17:00 Demob from site
17:42 Arrive @ home

9009 7122 Madison H.S.
5/11/10 Weather: overcast, sl. wind, 75 - 40°
9:00 Mob to site
9:21 Arrive on site
9:35 Begin purge
9:50 Pack up gear, place purge water into drum
10:07 Depart from site
10:25 Arrive @ office

5/13/10 weather: ~75-85°, windy, [illegible]
7:30 mob to site
7:50 Arrive at site.
7:52 unload gear near MW1 while waiting for backhoe operator
8:02 ~~Backhoe operator~~ Bobby (Rabbit) arrives
8:07 Truck arrives to haul soil
8:25 Backhoe operator arrives
9:06 1st truck leaves for Landfill.
9:15 2nd truck arrives
9:50 2nd truck leaves
10:11 Bottle dig at @ LS9
10:38 3rd truck arrives
12:34 Stop digging @ LS10
11:45 Begin extra digging @ LS9
11:55 Send 40th truck away since it isn't needed
12:20 3rd Truck leaves. Backhoe goes w/ John (NE7S0) to backfill

Terracon Consultants Inc.
Instrument and Equipment Calibration Log

Project Name and Location: Lunch Plaza (315 Lundy St., New Braunfels, TX)

Project Number: 90107070

Instrument/Equipment	Date	Time	Calibration Check	Full Calibration	Calibration Media	Initials
Horiba U-22	3/18/10	12:10	x		Horriba Cal. Slution (pH 4)	KLB
Horiba U-53	3/18/10	~13:15		x	Horriba Cal. Slution (pH 4)	KLB

Terracon Consultants Inc.
Instrument and Equipment Calibration Log

Project Name and Location: Supplemental Landa Plaza (315 Landa St.)

Project Number: 90107096

Instrument/Equipment	Date	Time	Calibration Check	Full Calibration	Calibration Media	Initials
Mini RAE Lite PID	4/15/10	8:55		x	100ppm Isobutylene	KKB
Mini RAE Lite PID	4/16/10	9:10		x	100ppm Isobutylene	KKB
Mini RAE Lite PID	4/16/10	95:07	x		100ppm Isobutylene	KKB
Horiba U-50	4/19/10	14:25		x	Horiba Autocal solution	KKB
Horiba U-50	4/20/10	7:15		x	Horiba Autocal Solution	KKB
Horiba U-50	4/22/10	~12:40		x	Calibrated by FarWest Tech	KKB
Horiba U-50	4/10/10	16:01		x	Horiba Autocal Solution	KKB

IHW T-2453-CO

Bryan W. Shaw, Ph.D., *Chairman*
Buddy Garcia, *Commissioner*
Carlos Rubinstein, *Commissioner*
Mark R. Vickery, P.G., *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

June 25, 2010

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Mr. Tom Granger
Midwikis & Granger, Inc.
700 Lavaca, Ste. 740
Austin, Texas 78701

Re: Comments to *Limited Site Investigation Report,* May 12, 2010
Landa Plaza Shopping Center, 315 Landa Street, New Braunfels, (Comal County, Texas)
TCEQ Facility ID No.T2453
Customer No. CN603673120; Regulated Entity No. RN105929384

Dear Mr. Granger:

The Texas Commission on Environmental Quality (TCEQ) has completed a review of the above referenced submittal received by the Remediation Division on May 13, 2010. Based on our review, the TCEQ has the following comments:

1. If the gasoline-range petroleum hydrocarbons detected in soil samples from boring B-1 are likely the result of release(s) occurring from the adjacent former petroleum storage tank (PST) property which migrated on-site, then additional supporting documentation is needed. Provide a detailed discussion on off-site source with supporting documentation on the status of assessment and/or cleanup of the LPST site, name of company, PST and/or LPST facility number, assessment and current remediation report(s), etc. The TCEQ needs the additional information to verify that an off-site source of petroleum hydrocarbon contamination has impacted the subject property. The additional information is also needed for the TCEQ to consider the request for no further action, and verify that an off-site release is being, or has been managed under an appropriate TCEQ cleanup program.

2. Discuss the selection of soil sample numbering and sequencing of borings B-1 through B-11. For example, why are there no borings B-3, B-4, B-6 through B-8?

3. Provide a copy of boring logs for boring B-9 and B-10 located inside the Dry Cleaner as depicted in Figure 2. If there are no boring logs provide copies of photographs of cores and/or field notes describing soil type, presence of odor, soil discoloration, PID readings, etc.

4. Provide copies of all field notes taken during soil sampling, purging and sampling of temporary and permanent groundwater monitoring wells, as well as calibration reports for field instruments measurements of temperature, pH, conductivity and turbidity. The additional information is needed to verify sampling methods were adequately implemented.

5. The report did not include tabulated water level elevations, nor a potentiometric surface map depicting groundwater gradient and direction of groundwater flow. Please verify if the water level marks depicted in boring logs/well completion diagrams for B-1A, B-2A, B-5A and B-11 are static water level measurements obtained from completed monitoring wells using a water

level meter. Also, provide filed notes which summarize water level measurement readings taken.

6. Since there is a presence of gasoline-range petroleum hydrocarbon that were detected in MW-1, where there any presence of a sheen, or light non-aqueous phase liquids present in the on-site monitoring wells.

7. Impacted soils exceeding the Tier 1 protective concentration levels (PCLs) or background for the applicable exposure pathway should be excavated and disposed of at the appropriate off-site permitted facility. Upon completion of excavation activities, confirmation samples should be collected to verify PCLs were met.

8. For further guidance on applying to the Innocent Operator Program (IOP) can be obtained form the following web page http//home.tceq.state.tx.us/internal/enforcement/remed/iop/iop_index.html.

Please prepare a written response to each comment, referencing the assigned TCEQ comment number, unless otherwise specifically requested above. An original and one copy of the written response to these comments must be submitted to the TCEQ Remediation Division at the letterhead address using mail code number MC-127. An additional copy should be submitted to the TCEQ Region Office. Your response to items 1-7 of this letter must be received within ninety (90) days from the date of this letter. Please note that the Remediation Division has instituted a policy of sending letters via Portable Document Format (PDF) and email when appropriate. Therefore, current email addresses and the site identification information in the reference block above should be included in your response.

Please call me at (512) 239-2034 or by e-mail: mhatfiel@tceq.state.tx.us if you need additional information or wish to discuss these comments or the due date. Thank you for your cooperation in this matter.

Sincerely,

Maureen Hatfield, P.G., Sr. Project Manager
Corrective Action Team 2, VCP-CA Section
Remediation Division
Texas Commission on Environmental Quality

MH/jdm

cc: Mr. Joel Anderson, Waste Program Manager, TCEQ Region 13 Office, San Antonio

MIDWIKIS & GRANGER, P.C.
CERTIFIED PUBLIC ACCOUNTANTS

Telephone
(512)478-7165

700 LAVACA, SUITE 740
AUSTIN, TEXAS 78701

Telecopier
(512)478-0716

T/F/IHW T2453 CO RP
ARTS COMM# 13073866
PROJ. MGR.
to assign

May 12, 2010

Texas Commission on Environmental Quality
Corrective Action Team 1, VCP-CA Section
Remediation Division
MC – 221
P.O. Box 13087
Austin, Texas 78711-3087

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Corrective Action

Via: Hand Delivery

Reference: Landa Plaza Shopping Center
315 Landa Street, New Braunfels, Texas
TCEQ SWR No. NA
CN: NA / RN:

To Whom It May Concern:

Attached is the Limited Site Investigation Report, which was prepared to demonstrate that the release discovered at the facility was minor in nature and would not be subject to the Texas Risk Reduction Program. Please review the reports and forward any comments you may have regarding this matter to me by mail at the address listed on the letterhead or by e-mail to ***tom@midwikis.com***.
Upon completion of your review and assuming you find no need for any action on the part of the land owner I would request that you issue a ***"no further action letter"*** for this property. Should you have any questions or require any additional information please feel free to contact me. Thank you for your attention to this matter.

Sincerely,

Tom Granger

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Texas Commission on Environmental Quality

Remediation Division Correspondence Identification Form

SITE & PROGRAM AREA IDENTIFICATION

SITE LOCATION				REMEDIATION DIVISION PROGRAM AND FACILITY IDENTIFICATION	
Site Name: **Landa Plaza Shopping Center**				Is This Site Being Managed Under A State Lead Contract? ☐ Yes ☑ No	
Address 1: **315 Landa Plaza**				Program Area: ~~INNOCENT OWNER/OPERATOR PROGRAM~~ CA	
Address 2:				Mail Code: ~~MC-221~~ MC-127	
City: **New Braunfels**		State: **Texas**		Is This A New Site To This Program Area? ☑ Yes ☐ No — Client indicated wrong Program	
Zip Code:	**78130**	County:	**Comal**	**TCEQ Core Data Form attached to this submittal.**	**Needs Program Area ID Number assignment.**
TCEQ Region:	**Region 13 - San Antonio**			**--Leave This Field Empty--**	**--Leave This Field Empty--**

DOCUMENT(S) IDENTIFICATION

	PHASE OF REMEDIATION	DOCUMENT NAME
1.	**Assessment**	**Landa Plaza Shopping Center Supplemental Limited Site Investigation**
2.		
3.		
4.		
5.		

CONTACT INFORMATION

RESPONSIBLE PARTY/APPLICANT/CUSTOMER

Name: **Tom Grafinger**
Company: Landa Plaza Partners, Ltd
Address 1: 700 Lavaca, Ste 740
Address 2:
Phone Number: **512-478-7165**
City: AUSTIN State: **TX** Zip Code: 78701
Email Address: **tom@midwikis.com**
Fax Number: 512-478-0716

ENVIRONMENTAL CONSULTANT/REPORT PREPARER/AGENT

Name: **Jim Major, P.G.**
Company: **Terracon Consultants, Inc.**
Address 1: **6911 Blanco Road**
Address 2:
Phone Number: **210-641-2112 ext 1232**
City: **San Antonio** State: **TX** Zip Code: **78216**
Email Address: **jrmajor@terracon.com**
Fax Number: **210-641-2412**

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Document No.	TCEQ Database Term	Document No.	TCEQ Database Term
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TCEQ Core Data Form

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

SECTION I: General Information

1. Reason for Submission *(If other is checked please describe in space provided)*

☒ New Permit, Registration or Authorization *(Core Data Form should be submitted with the program application)*

☐ Renewal *(Core Data Form should be submitted with the renewal form)* ☐ Other

2. Attachments — Describe Any Attachments: *(ex. Title V Application, Waste Transporter Application, etc.)*

☒ Yes ☐ No — Landa Plaza Shopping Center Supplement Limited Site Investigation

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3. Customer Reference Number *(if issued)*: CN 603673120

Follow this link to search for CN or RN numbers in Central Registry**

4. Regulated Entity Reference Number *(if issued)*: RN 105929384

SECTION II: Customer Information

5. Effective Date for Customer Information Updates (mm/dd/yyyy): 5/11/2010

6. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check only one of the following:*

☐ Owner ☐ Operator ☒ Owner & Operator ☐ Occupational Licensee ☒ Responsible Party ☐ Voluntary Cleanup Applicant ☒ Other: Innocent Owner/Operator

7. General Customer Information

☒ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership
☐ Change in Legal Name (Verifiable with the Texas Secretary of State) ☐ No Change**

If "No Change" and Section I is complete, skip to Section III – Regulated Entity Information.

8. Type of Customer:	☐ Corporation	☐ Individual	☐ Sole Proprietorship- D.B.A
☐ City Government	☐ County Government	☐ Federal Government	☐ State Government
☐ Other Government	☐ General Partnership	☐ Limited Partnership	☒ Other:

9. Customer Legal Name *(If an individual, print last name first: ex: Doe, John)*: Landa Plaza Partners, Ltd — *If new Customer, enter previous Customer below* — *End Date:*

10. Mailing Address: Tom Granger; 700 Lavaca, Ste 740; City: Austin; State: TX; ZIP: 78701; ZIP + 4:

11. Country Mailing Information *(if outside USA)*:

12. E-Mail Address *(if applicable)*: tom@midwikis.com

13. Telephone Number: (512) 478-7165

14. Extension or Code:

15. Fax Number *(if applicable)*: (512) - 478-0716

16. Federal Tax ID *(9 digits)*:

17. TX State Franchise Tax ID *(11 digits)*:

18. DUNS Number *(if applicable)*:

19. TX SOS Filing Number *(if applicable)*:

20. Number of Employees: ☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher

21. Independently Owned and Operated? ☒ Yes ☐ No

SECTION III: Regulated Entity Information

22. General Regulated Entity Information *(If 'New Regulated Entity" is selected below this form should be accompanied by a permit application)*

☒ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information ☐ No Change** *(See below)*

**If "NO CHANGE" is checked and Section I is complete, skip to Section IV, Preparer Information.

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23. Regulated Entity Name *(name of the site where the regulated action is taking place)*: Landa Plaza Shopping Center

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24. Street Address of the Regulated Entity: *(No P.O. Boxes)*	315 Landa Street							
	City	New Braunfels	State	TX	ZIP	78163	ZIP + 4	
25. Mailing Address:	700 Lavaca, Ste 740							
	City	Austin	State	TX	ZIP	78701	ZIP + 4	
26. E-Mail Address:								
27. Telephone Number		28. Extension or Code		29. Fax Number *(if applicable)*				
( ) -				( ) -				
30. Primary SIC Code (4 digits)	31. Secondary SIC Code (4 digits)	32. Primary NAICS Code (5 or 6 digits)		33. Secondary NAICS Code (5 or 6 digits)				
		531120						
34. What is the Primary Business of this entity? *(Please do not repeat the SIC or NAICS description.)*								
Retail shopping center management								

Questions 34 – 37 address geographic location. Please refer to the instructions for applicability.

35. Description to Physical Location:	315 Landa Street → prefer they call it Landa Plaza				
36. Nearest City		County	State	Nearest ZIP Code	
New Braunfels		Comal	TX	78163	
37. Latitude (N) In Decimal:	29.70496	38. Longitude (W) In Decimal:	98.13243		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form or the updates may not be made. If your Program is not listed, check other and write it in. See the Core Data Form instructions for additional guidance.

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Industrial Hazardous Waste	☐ Municipal Solid Waste
☐ New Source Review – Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS	☐ Sludge
☐ Stormwater	☐ Title V – Air	☐ Tires	☐ Used Oil	☐ Utilities
☐ Voluntary Cleanup	☐ Waste Water	☐ Wastewater Agriculture	☐ Water Rights	☒ ~~Other: IOP~~ CA

SECTION IV: Preparer Information

40. Name:	Jim Major, P.G.	41. Title:	Consultant
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(210) 641-2112	1232	(210) 641-2412	jrmajor@terracon.com

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 9 and/or as required for the updates to the ID numbers identified in field 39.

(See the Core Data Form instructions for more information on who should sign this form.)

Company:	Landa Plaza Partners, Ltd.	Job Title:	
Name *(In Print)*:	Tom Grainger	Phone:	(512) 478-7165
Signature:	Tom Grainger	Date:	5/11/2010

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T/E/MW T2453 CO RP
ARTS COMM# 130738 66
PROJ. MGR. J Wang
* to assign Sm

SUPPLEMENTAL LIMITED SITE INVESTIGATION

LANDA PLAZA SHOPPING CENTER
315 Landa Street
New Braunfels, Comal County, Texas

May 12, 2010
Project No. 90107096



Prepared for:
City of New Braunfels
424 Castell Avenue
New Braunfels, Texas 78130

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Prepared by:
Terracon Consultants, Inc.
6911 Blanco Road
San Antonio, Texas

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IBC: 100180954

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ARTS CODE 130738de RP
PROJ. MGR.
* to assign

Ms. Connie Real
Real Estate Manager
City of New Braunfels
424 Castell Avenue
New Braunfels, Texas 78130

Telephone: 830-221-4060
Cellular: 830-481-6803
Email: creal@nbtexas.org

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Reference: Supplemental Limited Site Investigation
Landa Plaza Shopping Center
315 Landa Street, Comal County, Texas 78130
Terracon Project No. 90107096

Dear Ms. Real:

Attached is the Supplemental Limited Site Investigation (LSI) report conducted for the above referenced site. This investigation was conducted in accordance with Terracon's Proposal Number P90100217A, dated March 29, 2010.

We appreciate the opportunity to have worked with you on this project. Please contact either of the undersigned at (210) 641-2112 if you have questions regarding the information provided in the report.

Sincerely,
Terracon Consultants, Inc.

James (Jim) R. Major, P.G.
Senior Project Manager

for: Lee Garrett, P.G.
Environmental Services Manager

Attachment: LSI Report 90107096

STATE OF TEXAS
JAMES R. MAJOR
SOIL SCIENCE
NO: 1936
LICENSED
PROFESSIONAL SOIL SCIENTIST
5-12-10

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3.0 LABORATORY ANALYTICAL METHODS 4

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Table 5 – Summary of Previous Investigation Analytical Results of Groundwater Samples

APPENDICES

Appendix A – Project Photographs
Appendix B – Boring Logs
Appendix C – Laboratory Analytical Reports
Appendix D – Ecological Exclusion Checklist

SUPPLEMENTAL LIMITED SITE INVESTIGATION
LANDA PLAZA SHOPPING CENTER
315 LANDA STREET
NEW BRAUNFELS, COMAL COUNTY, TEXAS

Terracon Project No. 90107070
May 6, 2010

1.0 INTRODUCTION

The City of New Braunfels retained Terracon Consultants, Inc. (Terracon) to conduct a Supplemental Limited Site Investigation (LSI) at the Landa Plaza Shopping Center. The objective of the LSI was to further investigate soil and groundwater for the presence of chemicals of concern (COCs) identified in the initial LSI conducted in March 2010.

1.1 Site Description

The site is located at 315 Landa Street, in New Braunfels, Texas. Figure 1, a Site Vicinity Map depicts the site location in relation to the surrounding area. The site is a shopping center occupied with a dry cleaners, take-out restaurant, photographic film processing facility, pharmacy and other retail stores. The remains of a building foundation from a razed structure that was destroyed by fire are present along the southern portion of the property. The site is relatively flat and surface water drains slightly toward the southeast. The majority of the site is covered with pavement, building foundations, parking areas and a driveway. Properties in the site vicinity are used for commercial, residential and retail purposes. The adjoining properties include a used car sales facility which was a former gasoline station, an apartment complex, a restaurant, rail road track, and other commercial facilities.

1.2 Scope of Work

This LSI was conducted in accordance with our Proposal No. P90100217, as authorized by Ms. Connie Real of the City of New Braunfels. The scope of work for the project included:

- Drilling two shallow borings using a hand auger inside the dry cleaners;
- Drilling four deeper soil borings using a hollow stem auger drilling rig at the following locations on the site:
  - Near the northwest corner,
  - Behind the dry cleaners,
  - A down gradient location, and
  - At the south side of the site.

- Collection of soil samples from the soil boring cores for laboratory analyses;
- Installation of four groundwater monitoring wells in the deeper borings and collection of groundwater samples for laboratory analyses;
- Analyzing the soil and water samples in accordance with the project sampling plan; and
- Preparation of a report documenting the results of the investigation.

Except for the locations inside the dry cleaner, the soil borings were drilled utilizing a hollow-stem auger rig under the supervision of a State of Texas licensed monitor well driller. The borings installed inside the dry cleaners were drilled using a concrete coring machine and a hand auger to a depth of 2 feet below ground surface (bgs). The deeper borings were drilled to a depth of a restrictive clay layer beneath the alluvial gravels of approximately 45 feet bgs.

1.3 Standard of Care

These services were conducted in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time period. Terracon makes no warranties, either expressed or implied, regarding the findings, conclusions or recommendations. Terracon does not warrant the work of laboratories, regulatory agencies or other third parties supplying information used in the preparation of the report. These LSI services were conducted in accordance with the scope of work agreed with you, our client, as reflected in our proposal. The scope of services was not intended to comply with all of the specifications or requirements set forth in the ASTM E1903-97 guidelines.

1.4 Additional Scope Limitations

Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-site activities and other services conducted under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, non-detectable or not present during these services, and we cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this LSI. Subsurface conditions may vary from those encountered at specific borings or wells or during other surveys, tests, assessments, investigations or exploratory services; the data, interpretations, findings, and our recommendations are based solely upon data obtained at the time and within the scope of these services.

1.5 Reliance

This report has been prepared for the exclusive use of the City of New Braunfels. Any authorization for use or reliance by any other party except a governmental entity having jurisdiction over the site is prohibited without the express written authorization of the City of New Braunfels and Terracon.

Any unauthorized distribution or reuse is at the user's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, LSI report, and Terracon's Terms and Conditions. The limitation of liability defined in the terms and conditions is the aggregate limit of Terracon's liability to the client and all relying parties unless otherwise agreed in writing.

2.0 FIELD ACTIVITIES

2.1 Borings and Monitoring Wells

The LSI field activities were initiated on April 15, 2010, by Kevin Bryant and Jim Major, Professional Geoscientists. Site features and sampling locations are depicted on Figure 2. Photographs depicting site conditions and investigation activities are included in Appendix A.

Drilling services were provided by Total Support Services; a State of Texas licensed driller, using a hollow stem auger drilling rig under the direction of Terracon's Geoscientist. The drilling equipment was cleaned using a high pressure washer prior to beginning the project. Sampling equipment that was not dedicated was cleaned using a laboratory-grade detergent wash and potable water prior to the beginning of the project and before the collection of each the soil cores.

Soil cores were collected using a split spoon sampler lined. The soil cores were evaluated to document the soil lithology, color, moisture content and evidence of impairment. The soil cores were also screened using a photo-ionization detector (PID) for the presence of organic vapors. The general soil lithology consisted of the following:

- Dark brown clay from the surface to approximately 5 feet bgs;
- Silty sand from approximately 5 feet bgs to approximately 27 feet bgs;
- Gravelly sand from approximately 27 feet to 40 feet bgs; and
- Light brown clay from approximately 40 feet to 45 feet bgs.

Shallow fill soils were encountered in the shallow soil borings installed inside the dry cleaner building. Petroleum odors were detected in the soil cores collected from the borings advanced behind the dry cleaners and near the northwest corner of the site, nearest the former LPST facility. The details of the soil conditions are presented on the soil boring logs included in Appendix B.

Upon completion of drilling activities, the four deep soil borings (B-1A, B-2A, B-5A, and B-11) were completed as permanent groundwater monitoring wells (MW-1A, MW-2A, and MW-5A and MW-11). The monitoring wells were installed using a 25-foot section of 2 inch diameter PVC well screen and a sufficient length of casing to reach the surface. Subsequent to installation, the groundwater monitoring wells were allowed to accumulate groundwater. After sufficient recharge, the depths to groundwater in the monitoring wells were measured at determined to range from approximately 21 and 23 feet bgs.

The soil cuttings, equipment decontamination wash water, and monitoring well purge water were stored in labeled 55-gallon drums and staged on the site for subsequent characterization and disposal. The investigation work generated nine 55-gallon drums of soil cuttings and water. Disposal of the soil cuttings and purge water at a permitted landfill is pending.

2.2 Sampling Methods

The soil sampling program involved collecting and submitting soil samples from the borings for laboratory analysis. Soil samples were collected from the zone with the highest PID reading. When no elevated PID readings were detected, soil samples were collected from the interval with a change in lithology, or from the bottom of the boring. Soil sample intervals for the soil boring are presented with the analytical results (Table 1) and are also provided on the lithologic boring logs included in Appendix B.

Groundwater samples were collected from the monitoring wells using a low flow pump. Prior to sample collection, the monitoring wells were purged until the physical parameters (temperature, pH, conductivity, and turbidity) had stabilized as determined by the relative difference between successive water quality instrument readings of the groundwater samples.

Soil and groundwater samples were collected and placed in laboratory prepared containers, labeled, and placed on ice in a cooler. The sample coolers and completed chain-of-custody forms were transported by overnight delivery to the laboratory.

3.0 LABORATORY ANALYTICAL METHODS

Selected samples collected from the areas of concern were analyzed by Environmental Science Corporation of Mount Juliet, Tennessee, accredited by the National Environmental Laboratory Accreditation Conference (NELAC) for environmental sample analysis. The sampling program and the laboratory analytical methods utilized for the project are summarized below. The soil samples were also analyzed for moisture content using EPA method 2540G and the analytical results were reported on a dry weight basis.

Sampling Program

No. of Samples	Sample Type	Analysis	Laboratory Method
5	Soil	Volatile organic compounds (VOCs)	EPA SW846 8260B
1	Soil	Synthetic precipitate leaching procedure (SPLP) volatile organic compounds (VOCs)	EPA SW846 1312/8260B
2	Soil	Semi-volatile organic compounds (SVOCs)	EPA SW846 8270c
4	Soil	Total petroleum hydrocarbons (TPH)	TCEQ TX1005

No. of Samples	Sample Type	Analysis	Laboratory Method
2	Soil	Selected metal compounds	EPA SW846 6010b/ 7471a
1	Soil	SPLP Metal compounds	EPA SW846 1312/6010b/ 7471a
4	Water	Volatile organic compounds (VOCs)	EPA SW846 8260B
2	Water	Semi-volatile organic compounds (SVOCs)	EPA SW846 8270c
4	Water	Total petroleum hydrocarbons (TPH)	TCEQ TX1005
1	Water	Selected metals compounds	EPA SW846 6010b/ 7471a

4.0 DATA EVALUATION

The Texas Commission on Environmental Quality (TCEQ) has developed the Texas Risk Reduction Program (TRRP) for regulating the cleanup and management of hazardous wastes and COCs which have been released into the environment at affected properties, from regulated facilities, as well as closures of certain waste management facility components (e.g., tanks, container storage areas, surface impoundments). TRRP establishes requirements to investigate releases and evaluate whether an affected property or facility closure pose unacceptable risk to humans, air, groundwater, surface soils, subsurface soils and/or aquatic environments.

More stringent protective concentration levels (PCLs) or action levels are applied to residential properties than to commercial/industrial properties. Similarly, a groundwater classification system is included in the rule so that the sensitivity and use potential of the groundwater can be considered when setting cleanup levels and cleanup requirements.

The TRRP rule establishes three levels of response referred to as Tier 1, 2, or 3 PCLs. The default values are the Tier 1 PCLs, which are the simplest, but normally the most stringent (i.e. lowest) action levels. The Tier 2 action levels are calculated using site specific soil, groundwater and chemical data. Tier 3 uses the most sophisticated methods, but uses the most site-specific considerations.

Normally, the assessment or action levels for an environmental investigation are based on one or more of the 0.5-acre source area Residential Tier 1 PCLs summarized below. When on-site or nearby surface water, creeks or other sensitive environments have the potential to be affected, sediment and ecological PCLs must also be addressed.

Assessment Level Exposure Pathways

Exposure Pathway Exposure Pathway	Nomenclature	Environmental Medium
Combined ingestion, dermal contact, inhalation of volatile and particulate emissions, and ingestion of aboveground and below-ground vegetables with COCs in soil.	$^{Tot}Soil_{Comb}$	Surface soil: Residential 0 – 15 Commercial 0 – 5
Inhalation of volatile COC emissions from soil.	$^{Air}Soil_{Inh\text{-}V}$	Subsurface soil
Protection of groundwater from soil leachate.	$^{GW}Soil_{Ing}$	Surface and subsurface soil
Ingestion of COCs in groundwater.	$^{GW}GW_{Ing}$	Class 1 and 2 groundwater

COCs identified at concentrations exceeding the default or calculated PCLs, must be addressed through the performance of a response action using one of two remedy standards established in 30 TAC §350.71-350.79: Standard A – remediation to less than the PCLs and Standard B – remediation to criteria where human health and the environment are protected using institutional or engineering controls.

4.1 Soil Samples

The investigation activities included concrete coring and collection of soil samples beneath the dry cleaner building foundation using a hand auger (B-9 and B-10), as well as installation of soil borings near the northwest corner of the site near the former offsite PST facility (B-1), behind the dry cleaners (B-2A), down gradient from the dry cleaners (B-11), and adjacent to the south edge of the parking lot near the razed building foundation (B-5A). The results of the soil sample analysis from this investigation are summarized in Table 1 and Table 2, following the report text. The results of the soil sample analysis from the previous investigation are summarized in Table 3. The executed chain of custody form and the complete laboratory reports are included in Appendix C.

Gasoline-range petroleum hydrocarbons were detected at concentrations of 200 mg/Kg, exceeding the TCEQ screening level of 65 mg/Kg in the soil sample collected from the boring B-1 from a depth of 24 to 26 feet bgs near the northwest corner of the site near the former offsite gasoline station. VOCs were detected in the same soil sample also, but at concentrations less than the respective TCEQ action levels ($^{GW}Soil_{Ing}$).

Tetrachlorethene (PCE), a dry cleaning solvent, was detected in the soil sample collected from soil boring B-2A, installed behind the dry cleaners and from borings B-9 and B-10, installed inside the building near the dry cleaning machine. The PCE concentration detected in the shallow soil sample collected from B-2A at a depth of 2 feet bgs was 0.14 mg/Kg, exceeding the TCEQ action level of 0.05 mg/Kg. The results of Terracon's previous LSI indicated that the PCE concentrations in sample B-2 collected from a depth of 22.5-25 feet bgs were less than the TCEQ action level. The PCE concentrations in the soil samples collected beneath the concrete foundation beside the dry cleaning machine (B-9 and B-10) were below the TCEQ action levels.

Petroleum hydrocarbons and VOCs were not detected in the soil sample collected at a depth of 42

to 44 feet bgs from soil boring B-11, drilled in front and down gradient of the dry cleaning facility. The results of laboratory analysis of the soil sample collected from boring B-2A indicated that barium, cadmium, chromium, and lead were detected at concentrations below the respective TCEQ action levels.

Arsenic and selenium were detected in the soil sample collected at a depth of 42 to 44 feet bgs from boring B-11 using EPA method 6010 and were reported by the laboratory as having an analytical method detection limit which exceeded the respective action levels due to matrix interference. The sample was reanalyzed using EPA method 6020, which provided a lower detection limit for both arsenic and selenium analyses. The results of the 6020 analyses indicated that the concentration of selenium detected in the soil sample was 0.55 mg/Kg which is less than the TCEQ action level of 2.3 mg/Kg. However, the arsenic concentration detected in the soil sample was 6.3 mg/Kg, which is greater than the TCEQ action level of 5.9 mg/Kg (i.e. Texas Specific Median Background).

The results of Terracon's initial LSI sampling event indicated that the arsenic, lead and mercury compounds were detected in the soil samples collected near the southern boundary of the site at concentrations exceeding the TCEQ action levels. The soil sample with the highest concentration of arsenic, lead and mercury (B-5 1-2 FT) was analyzed using the synthetic precipitation leaching procedure (SPLP) extraction method to determine the potential for the metal compounds of concern to leach from the soil. The results of the SPLP extraction and analysis indicated that the arsenic, lead and mercury concentrations in the soil sample extract were below the respective analytical method detection limits and the TCEQ action levels ($^{GW}GW_{Ing}$).

4.2 Groundwater Samples

The groundwater monitoring activities involved purging and collecting groundwater samples from the four permanent monitoring wells. The analytical results of the groundwater samples collected during this sampling event are summarized in Table 4. The analytical results of the previous sampling event are summarized in Table 5. Petroleum hydrocarbons, SVOCs and VOCs typically associated with gasoline were detected in the groundwater sample collected from monitoring wells MW-1 and MW-2A at concentrations, which were less than respective TCEQ action levels. Cis-1,2-dichloroethene (DCE), a VOC associated with dry cleaning solvents, was detected in the groundwater sample collected from monitoring well MW-11 installed down gradient from the dry cleaners at a concentration of 0.0005 mg/L which was less than the TCEQ action level of 0.07 mg/L. The DCE concentration detected in the groundwater sample during this event was lower than the DCE concentration of 0.043 mg/L detected in the temporary monitoring well installed during the initial LSI.

During the previous LSI, pentachlorophenol was detected at a concentration of 0.0011 mg/L in the groundwater sample collected from the temporary monitoring well, MW-2, installed behind the dry cleaners. This concentration slightly exceeded the TCEQ action level of 0.001 mg/L. During this sampling event, pentachlorophenol was not detected in the sample collected from the permanent monitoring well.

During the previous LSI, arsenic was detected in the groundwater sample collected from temporary monitoring well MW-2 at a concentration of 0.022 mg/L, which exceeded the TCEQ action level of 0.01 mg/L. Since the well was constructed in the initial investigation as a temporary well and was sampled shortly after the installation, the arsenic concentration detected in the groundwater sample was suspected to be the result of higher than normal suspended solids. The permanent monitoring well, MW-2A, installed during this LSI was resampled to verify the arsenic concentrations in the groundwater. The arsenic concentration of the groundwater sample collected from the permanent monitoring well MW-2A was less than the laboratory analytical method detection limit, which was less than the TCEQ action level of 0.01 mg/L. Arsenic, and lead were detected in the groundwater sample collected from MW-5A at 0.004 mg/L and 0.002 mg/L, both concentrations were below the respective TCEQ action levels of 0.01 mg/L and 0.015 mg/L.

5.0 FINDINGS AND RECOMMENDATIONS

The results of this investigation detected gasoline-range petroleum hydrocarbons, tetrachloroethene (PCE) and arsenic constituents in some soil samples at concentrations exceeding the TCEQ Tier 1 action levels; the highest concentrations of the petroleum hydrocarbons were detected in the soil sample collected from the northwest corner of the site. Furthermore, the concentrations of petroleum decreased substantially with distance from the northwest property corner and the depth where the petroleum was encountered corresponded with the depth to the groundwater surface. Accordingly, the petroleum hydrocarbons detected in the soil samples are likely to be the result of releases occurring from the adjacent former petroleum storage tank (PST) facility which migrated to the subject site. Although the detected gasoline-range petroleum hydrocarbons exceeded the TCEQ total petroleum hydrocarbon (TPH) screening levels at the northwest corner (B-1), the volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) detected in the same soil sample were less than the respective TCEQ action levels.

Arsenic was detected in the groundwater sample collected from temporary monitoring well MW-2 during the previous investigation, and was suspected to be the result of higher than normal suspended solids in the groundwater. The results of resampling of the permanent well installed at the same location during this investigation indicated that the arsenic concentration in the groundwater sample was less than the TCEQ action level. Also, no VOCs, SVOCs, arsenic, lead and mercury constituents were detected in the groundwater samples collected from the permanent monitoring wells at concentrations exceeding the respective groundwater protection action levels.

The results of the SPLP extraction and analyses of the soil samples containing the highest concentrations of VOCs (B2A), and the soil sample containing arsenic, lead and mercury (B-5 from the initial LSI) indicated that the SPLP extract concentrations were less than the corresponding groundwater protection action levels. Therefore, the low concentrations of the VOCs and metals are not likely to leach out of the soils and impact groundwater.

Accordingly, the on-site PCE, arsenic, lead and mercury releases identified at the property have not

significantly affected groundwater. Accordingly, the identified releases would not be subject the Texas Risk Reduction Program (TRRP) Affected Property Assessment requirements.

A Tier 1 Ecological Exclusion Checklist was completed for the project. The results of the checklist indicated the site meets the exclusion criteria. A copy of the Checklist is included in Appendix D.

Based upon the findings of this LSI, Terracon makes the following recommendations:

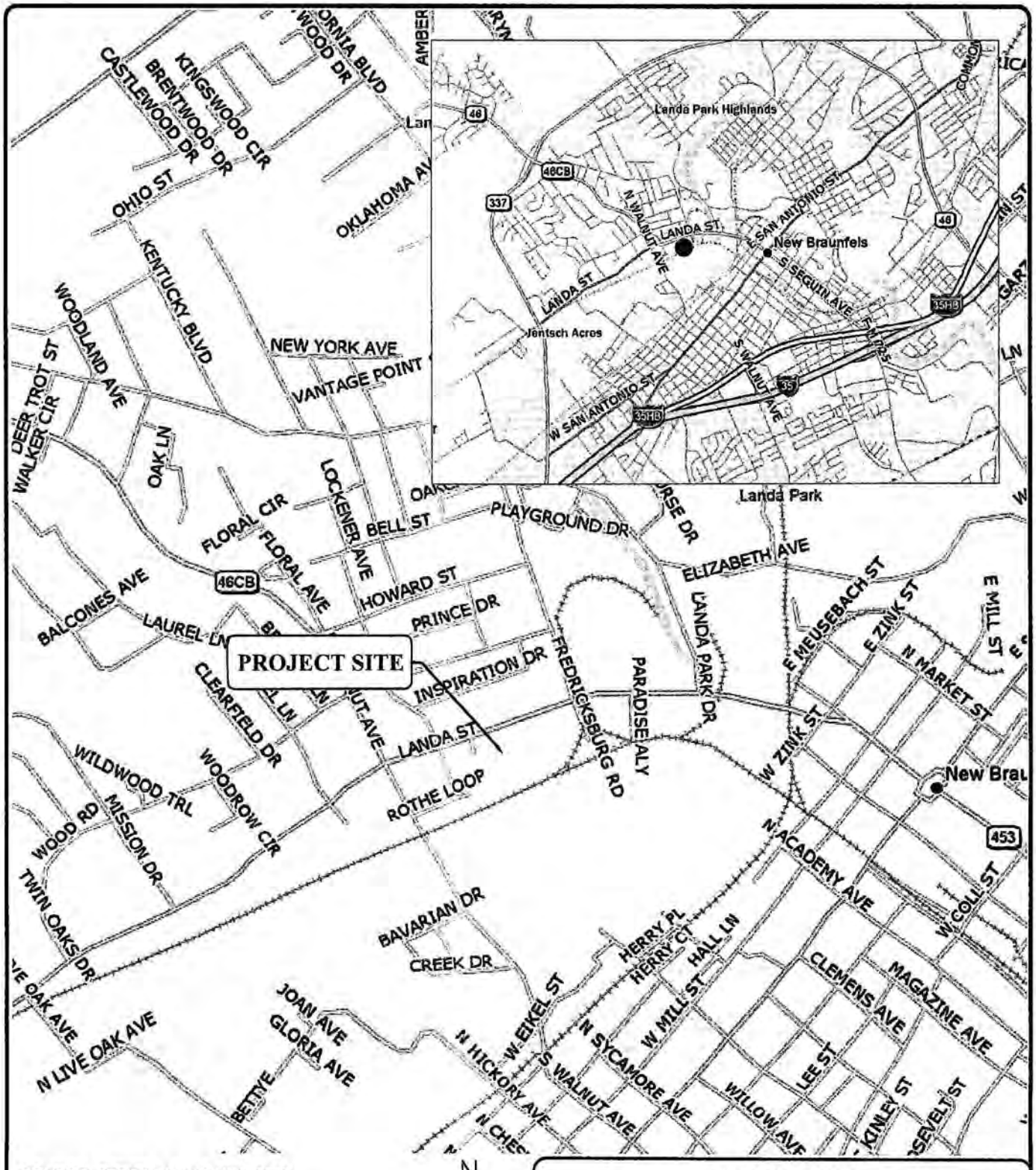
- Apply for the TCEQ Innocent Owner/Operator Program or request that the TCEQ review the LSI documentation and issue a "No Further Action" letter regarding the apparent release from the adjacent petroleum storage tank facility that has migrated to the site.
- Submit a request to the TCEQ to issue a "No Further A
releases of PCE and metal constituents detected at the s
- If impacted soils at the site will be excavated or otherwise
affected areas as part of renovation, construction or oth
should be properly managed in accordance with applica
- Upon receipt of the TCEQ concurrence with the conclusio
that no more groundwater sampling will be required at the
wells should be properly plugged and abandoned by a li

informed that (5/13. I or was not intended program to request NFA.. They didn't want to pay the "fee")-? (So ~~et~~ program is not what they wanted) Fine

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FIGURES

Figure 1 – Site Vicinity Map
Figure 2 – Sampling Locations Diagram



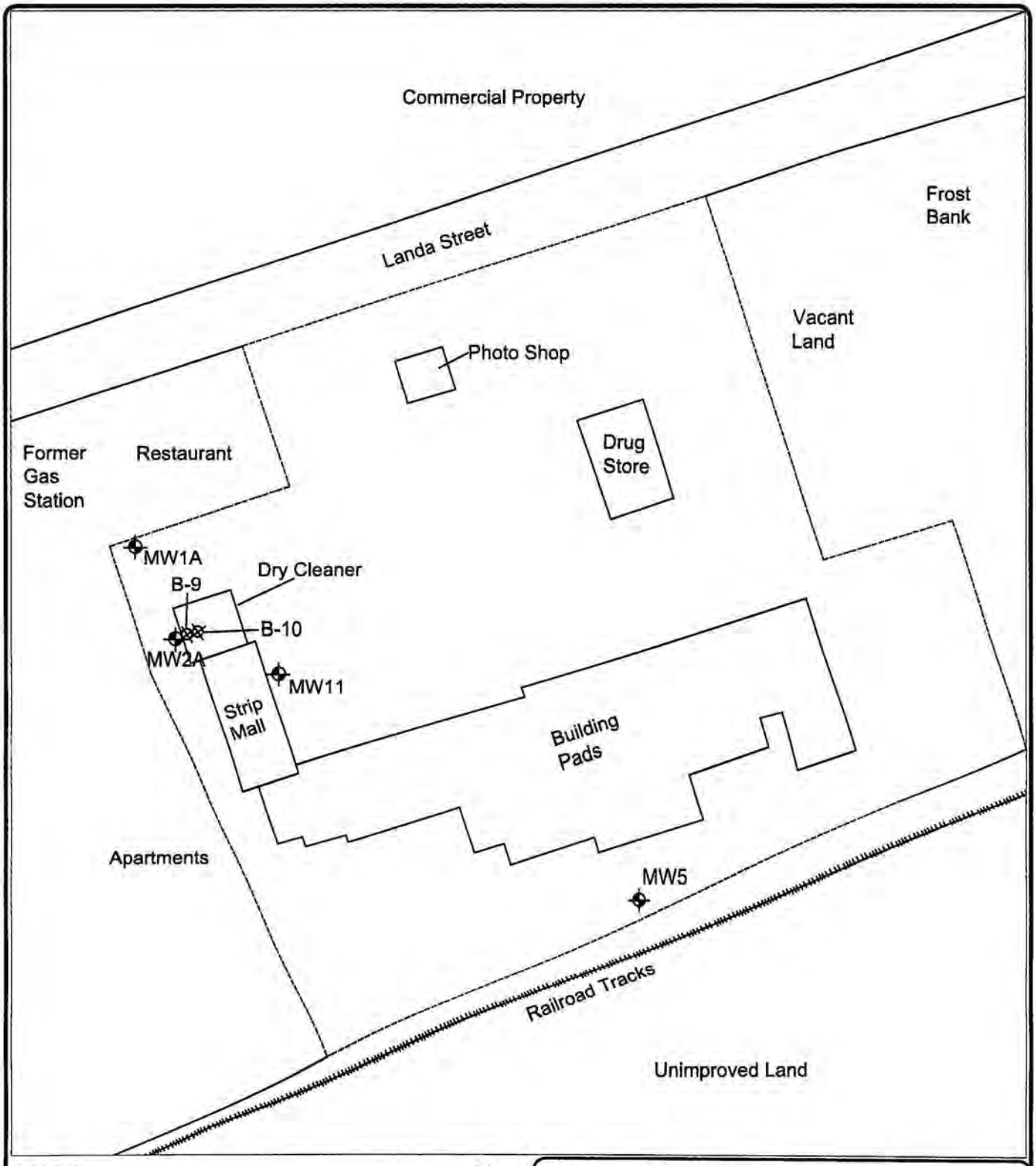
SOURCE: STREET ATLAS USA, 2008..

N

DIAGRAM IS FOR GENERAL LOCATION ONLY,
AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

SITE VICINITY MAP
LANDA PLAZA SHOPPING CENTER
315 LANDA STREET
NEW BRAUNFELS, COMAL COUNTY, TEXAS

Project Mngr:	JRM	Terracon	Project No. 90107096
Checked By:	JRM		Scale: NOT TO SCALE
Approved By:	JRM		Drawn By: KKB
File Name:			Figure No. 1



LEGEND

- SITE BOUNDARY
- MW1A - MONITORING WELL LOCATION AND NAME
- B-9 - BORING LOCATION AND NAME

N

DIAGRAM IS FOR GENERAL LOCATION ONLY,
AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

SAMPLING LOCATIONS DIAGRAM

LANDA PLAZA SHOPPING CENTER
315 LANDA STREET
NEW BRAUNFELS, COMAL COUNTY, TEXAS

Project Mngr: JRM	Terracon	Project No.	90107096
Checked By: JRM		Scale:	NOT TO SCALE
Approved By: JRM		Drawn By:	KKB(90)
File Name:		Figure No.	2

TABLES

Table 1 – Summary of Analytical Results of Soil Samples
Table 2 – Summary of SPLP Analytical Results of Soil Samples
Table 3 – Summary of Previous Investigation Analytical Results of Soil Samples
Table 4 – Summary of Analytical Results of Groundwater Samples
Table 5 – Summary of Previous Investigation Analytical Results of Groundwater Samples

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TABLE 1

Summary of Analytical Results for Soil Samples
Landa Plaza Shopping Center Supplemental Limited Site Investigation
315 Landa Street, New Braunfels, Texas
May 12, 2010

	RCRA Metals EPA Method 6020/6010B						SVOCs EPA 8270C	Volatile Organic Compounds EPA Method 8260B										TPH TCEQ Method TX 1005		
Sample ID	**Arsenic**	**Barium**	**Cadmium**	**Chromium**	**Lead**	**Selenium**	**Naphthalene**	**Isopropylbenzene**	**Naphthalene**	**n-Propylbenzene**	**n-Butylbenzene**	**p-Isopropyltoluene**	**sec-Butylbenzene**	**tert-Butylbenzene**	**Tetrachloroethene**	**Trichloroethene**	**1,2,3-Trimethylbenzene**	**TPH C6 - C12**	**TPH C12 - C28**	**TPH C6 - C35**
B1 24-26 FT	--	--	--	--	--	--	--	0.039	0.05	0.24	0.42	0.016	0.14	0.004	U	U	0.003	**200**	46	**250**
B-2A 2-4 FT	--	--	--	--	--	--	U	U	U	U	U	U	U	U	**0.14**	0.005	U	--	--	--
B-2A 22-24 FT	--	--	--	--	--	--	0.024	--	--	--	--	--	--	--	--	--	--	--	--	--
B-5A 16-18 FT	0.04	--	--	--	2.3	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U
B-9 2 FT	--	--	--	--	--	--	U	U	U	U	U	U	U	U	0.004	U	U	U	U	U
B-10 2 FT	--	--	--	--	--	--	U	U	U	U	U	U	U	U	0.002	U	U	U	U	U
B-11 42-44 FT[1]	**6.3**	13	0.35	5.2	U	0.55	--	U	U	U	U	U	U	U	U	U	U	U	U	U
TCEQ Action Level	***5.9***	***440***	***1.5***	***30***	***15***	***2.3***	***31***	***350***	***31***	***45***	***120***	***230***	***85***	***100***	***0.05***	***0.034***	***32***	***65***	***200***	***200***

Notes

Results are reported in milligrams per kilogram (mg/Kg)

This summary table includes analytes where one or more were detected above the laboratory analytical method detection limit

RCRA - Resource Conservation and Recovery Act

VOCs - Volatile ogranic compounds

TPH -Total petroleum hydrocarbons

SVOCs - Semi-volatile organic compounds

U - Results were less than the laboratory method detection limit

XX.XX - Analyte exceeds the TCEQ Action Level

-- - Analysis was not requested for this analyte

NE - Action level has not been established by the TCEQ for this analyte

[1] - Results for arsenic and selenium reported from subsequent 6020 analysis

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TABLE 2
Summary of SPLP Analytical Results for Soil Samples
Landa Plaza Shopping Center Supplemental Limited Site Investigation
315 Landa Street, New Braunfels, Texas
May 12, 2010

	Metals EPA Method 1312/6010B/7470A			Volatile Organic Compounds EPA Method 1312/8260B			
Sample ID	Mercury	Arsenic	Lead	Styrene	Tetrachloroethene	1,2,4-Trimethylbenzene	Xylenes, Total
B-2A 2-4 FT	--	--	--	0.00086	0.0013	0.00041	0.00093
B-5 0-1FT	U	U	U	--	--	--	--
TCEQ Action Levels	***0.002***	***0.01***	***0.015***	***0.1***	***0.005***	***0.24***	***10***

Notes
Results are reported in milligrams per liter (mg/L)
This summary table includes only analytes where one or more were detected above the laboratory analytical method detection limit
U - Results were less than the laboratory analytical method detection limit
XX.XX - Analyte exceeds the TCEQ Action Level
-- - Analysis not requested for this analyte

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TABLE 3

Summary of Analytical Results for Soil Samples
Landa Plaza Shopping Center Limited Site Investigation
315 Landa Street, New Braunfels, Texas
April 9, 2010

Sample ID	pH EPA 9045D	RCRA Metals EPA Method 6010b/7471						VOCs EPA Method 8260B							PAHs/SVOCs EPA 8270C	TPH TCEQ Method TX1005			
		Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	n-Butylbenzene	sec-Butylbenzene	Ethylbenzene	Isopropylbenzene	n-Propylbenzene	Tetrachloroethene	1,2,4-Trimethylbenzene		TPH C_6 - C_{12}	TPH C_{12} - C_{28}	TPH C_{28} - C_{35}	TPH C_6 - C_{35}
B-1 28-29FT	8.1	3.1	13	0.098	18	U	U	0.69	0.73	0.014	0.092	0.5	U	0.014	U	**210**	88	U	300
B-2 22.5-25.0FT	8.1	2.2	35	0.091	4.9	U	U	U	U	0.0019	U	0.0025	0.0052	U	U	U	U	U	U
B-3 10-12FT	--	--	--	--	--	--	--	U	U	U	U	U	U	U	--	U	U	U	U
B-4 3-4FT	--	3	64	0.12	11	3.2	0.0029	U	U	U	U	U	U	U	--	U	U	U	U
B-5 0-1FT	--	**7.1**	32	0.47	9.1	**57**	**0.064**	U	U	U	U	U	U	U	--	U	U	U	U
B-6 1-2FT	--	**6.6**	91	0.3	33	**16**	0.0062	U	U	U	U	U	U	U	--	U	U	U	U
B-7 3-4FT	--	**6.6**	140	0.27	28	14	0.0072	U	U	U	U	U	U	U	--	U	U	41	41
TCEQ Action Levels	*NE*	*5.9*	*440*	*1.5*	*2400*	*15*	*0.04*	*120*	*85*	*7.6*	*350*	*45*	*0.05*	*9.7*	*VARIES*	*65*	*200*	*200*	*NE*

Notes:
This summary table includes only analytes that were detected above the laboratory analytical method detection limit
Results are reported in milligrams per kilogram (mg/Kg)

RCRA - Resource Conservation and Recovery Act
VOCs - Volatile ogranic compounds
TPH -Total petroleum hydrocarbons
SVOCs - Semi-volatile organic compounds
PAHs - Polynuclear aromatic hydrocarbons
U - Results were less than the laboratory method detection limit
XX.XX - Analyte exceeds the TCEQ Action Level
-- - Analysis not requested for this analyte
NE - Action level has not been established by the TCEQ for this analyte

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TABLE 4

Summary of Analytical Results for Groundwater Samples
Landa Plaza Shopping Center Supplemental Limited Site Investigation
315 Landa Street, New Braunfels, Texas
May 12, 2010

	Metals EPA 6020		Volatile Organic Compounds EPA Method 8260B							TPH TX 1005		SVOCs EPA 8270C	
Sample ID	Arsenic	Lead	n-Butylbenzene	sec-Butylbenzene	cis-1,2-Dichloroethene	p-Isopropyltoluene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	TPH C6 - C12	TPH C6 - C35	Naphthalene	Di-n-butyl phthalate
MW1A	--	--	0.0005	U	U	U	U	0.0003	U	0.3700	0.3700	0.0003	--
MW2A	U	--	U	0.0004	U	0.0005	U	U	0.0026	0.4500	0.4500	--	0.0009
MW5A	0.0004	0.0003	U	U	U	U	U	U	U	U	U	--	--
MW11	--	--	U	U	0.0005	U	U	U	U	U	U	--	--
TCEQ Action Levels	***0.01***	***0.015***	***0.98***	***0.98***	***0.07***	***2.4***	***0.49***	***0.98***	***0.005***	***0.97***	***0.97***	***0.49***	***2.4***

Notes

Results are reported in milligrams per liter (mg/L)

This summary table includes only analytes where one or more were detected above the laboratory analytical method detection limit

TPH -Total petroleum hydrocarbons

SVOCs - Semi-volatile organic compounds

U - Results were less than the laboratory analytical method detection limit

XX.XX - Analyte exceeds the TCEQ Action Level

-- - Analysis not requested for this analyte

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TABLE 5

Summary of Analytical Results for Groundwater Samples
Landa Plaza Shopping Center Limited Site Investigation
315 Landa Street, New Braunfels, Texas
April 9, 2010

Sample ID	pH EPA 7040C	RCRA Metals EPA Method 6010b				VOCs EPA Method 8260B												TPH TCEQ TX 1005		SVOCs/PAHs EPA Method 8270C							
		Arsenic	Barium	Chromium	Selenium	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	2-Butanone (MEK)	Naphthalene	n-Propylbenzene	Tetrachloroethene	Trichloroethene	1,2,3-Trimethylbenzene	TPH C_6 - C_{12}	TPH C_6 - C_{35}	Acenaphthene	Fluorene	Naphthalene	Phenanthrene	2-Chloronaphthalene	Bis(2-ethylhexyl)phthalate	Di-n-butyl phthalate	Pentachlorophenol
MW-1	–	U	0.11	0.0017	0.031	U	0.01	0.00034	U	U	0.0015	U	0.0039	0.0036	U	U	U	1.2	1.2	0.00034	0.00041	0.0047	U	–	–	–	–
MW-2	7.1	**0.022**	0.3	U	0.02	0.0058	0.0045	U	0.043	0.075	0.016	U	0.036	0.047	0.0014	0.0004	0.0012	0.82	0.82	U	U	0.053	0.0005	0.0007	0.0004	0.0005	**0.0011**
MW-3	–	–	–	–	–	U	U	U	U	U	U	0.0056	U	U	U	U	U	U	U	–	–	–	–	–	–	–	–
TCEQ Action Levels	***NE***	***0.01***	***2***	***0.1***	***0.05***	***0.98***	***0.98***	***0.98***	***0.07***	***0.7***	***2.4***	***15***	***0.49***	***0.98***	***0.005***	***0.005***	***1.2***	***0.98***	***0.98***	***1.5***	***0.98***	***0.49***	***0.73***	***2***	***0.006***	***2.4***	***0.001***

Notes
This summary table includes only analytes that were detected above the laboratory analytical method detection limit
Results are reported in milligrams per liter (mg/L)

RCRA - Resource Conservation and Recovery Act
VOCs - Volatile ogranic compounds
TPH - Total petroleum hydrocarbons
SVOCs - Semi-volatile organic compounds
PAHs - Polynuclear aromatic hydrocarbons
EPA - Environmental Protection Agency
TCEQ - Texas Commission on Environmental Quality
U - Results were less than the laboratory method detection limit
XX.XX - Analyte exceeds the TCEQ Action Level
– - Analysis not requested for this analyte
NE - Action level has not been established by the TCEQ for this analyte

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APPENDIX A

Project Photographs



Photo #1 View of boring B11 drilled down gradient of the dry cleaners.

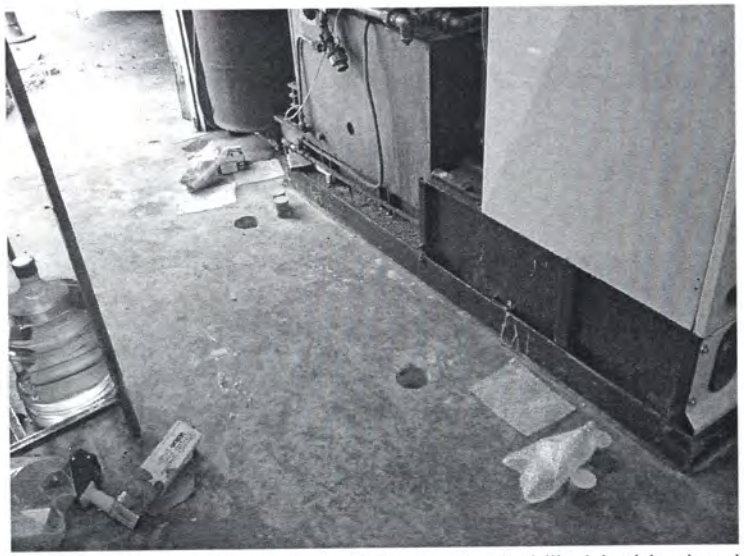


Photo #2 View of the borings B-9 and B-10 drilled inside the dry cleaners.



Photo #3 View of monitoring well MW-11.

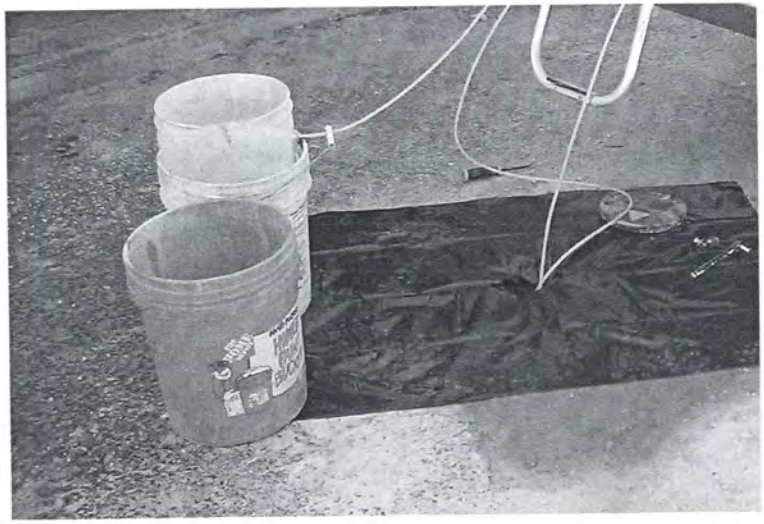


Photo #4 View of MW-2A behind the dry cleaners.

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APPENDIX B

Boring Logs



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BORING NO. **B-1A** SHEET 1 OF 1

PROJECT **Landa Plaza Shopping Center**

LOCATION **315 Landa Street**

PROJECT NO. **90107096**

COORDINATES

TOC ELEVATION **639.50** DATUM

LOGGED BY **KKB**

DEPTH FEET	LAB SAMPLE	SAMPLE TYPE	USCS	Recovery %	PID (ppm)	STRATA	DESCRIPTION	WELL CONSTRUCTION DETAIL	ELEVATION FEET
		SH	PAVE	30	0.0		2 inches of aphalt and 12 inches of gravelly clay (GC) base material.	2-inch diameter solid PVC casing lined with a concrete seal.	
		SH	CH	45	0.3		Clay (CH), black, slightly moist, high plasticity, slightly stiff.		
5		SH	CH	70	0.2		Clay (CH), brown, dry, high plasticity, stiff, some coarse sand.		635
		SH		50	0.2		Sandy clay (SC), light brown to tan, slightly moist, medium plasticity, soft, fine-grained.		
		SH		40	0.2			2-inch diameter solid PVC casing lined with bentonite seal.	
10		SH		60	0.1				630
		SH	SC	70	0.2				
15		SH		50	0.1				625
		SS		67	0.1		Sand (SP), light brown, dry, low plasticity, soft, fine-grained.	2-inch diameter solid PVC casing lined with 20/40 silica sand filter pack.	
		SS		50	0.1				
20		SS	SP	70	0.0		Same as above but medium-grained and slightly moist.		620
		SS		50	0.3		Same as above but coarse-grained, moist, some gravel (1/4-inch diameter, chert, sub-angular).		
25	B-1A 24-26'	SS		40	2400		Gravel (GW), light brown to tan, wet, low plasticity, stiff, gravel is 1-inch diameter, chert, sub-rounded to rounded. Some coarse sand present. Dark staining at 25-27 feet. Strong petroleum odor present.	2-inch diameter 0.010 machine slotted PVC screen lined with 20/40 silica sand filter pack.	615
		SS		40	2385				
		SS		50	76.7				
30			GW				Same as above with decreasing petroleum odor.		610
		SS		30	21.9		Same as above with only a slight petroleum odor.		
35							Clay (CH), gray to greenish-gray, slightly moist, high plasticity, very stiff to hard.		605
		SS	CH	70	4.8			2-inch diameter 0.010 machine slotted PVC screen lined with 20/40 silica sand filter pack.	
40									600

DRILLING CONTRACTOR **TSS**

DRILLING METHOD **HSA**

BOREHOLE DIAMETER (in.) **8**

DRILLING STARTED **4/16/10** ENDED **4/16/10**

REMARKS: **Drilled 0-1 within concrete breaker bit.**

Notes: Boring log should not be used separately from the original report.

LAEWN03_90107096 BORING LOGS.GPJ LAEWN03.GDT 5/7/10

Terracon

BORING NO. **B-2A** SHEET **1** OF **2**

PROJECT **Landa Plaza Shopping Center**

LOCATION **315 Landa Street**

COORDINATES **N 29.7 W Abs(-98.137326)**

PROJECT NO. **90107096**

TOC ELEVATION **638.00** DATUM

LOGGED BY **KKB**

SAMPLE INFORMATION						STRATA	DESCRIPTION	WELL CONSTRUCTION DETAIL	ELEVATION FEET
DEPTH FEET	LAB SAMPLE	SAMPLE TYPE	USCS	Recovery %	PID (ppm)				
		SH	PAVE	33	1.4		2 inches of aphalt and 7 inches of gravelly clay (GC) base material.	2-inch diameter solid PVC casing lined with a concrete seal.	
	B-2A 2-4'	SH	CH	50	2.7		Clay (CH), black, slightly moist, high plasticity, slightly stiff.		635
5		SH		50	1.1		Clay (CL-CH), brown, slightly moist, medium plasticity, stiff, some fine/medium-grained sand present.		
		SH	CL-CH	50	0.4				630
		SH		60	0.4		Sandy clay (SC), brown, slightly moist to moist, low plasticity, very soft, fine-grained.	2-inch diameter solid PVC casing lined with bentonite seal.	
10		SH	SC	33	0.9				
		SH		50	1.0				625
15		SS		50	0.5		Sand (SP), light brown, slightly moist, low plasticity, very soft, fine-grained.		
		SS	SP	40	0.4				
		SS		30	0.2		Same as above but medium-grained.	2-inch diameter solid PVC casing lined with 20/40 silica sand filter pack.	620
20		SS		50	1.8		Sand (SP), light brown to tan, wet, low plasticity, very soft, coarse-grained, some gray lenses and some clay present. Strong petroleum odor present.		
	B-2A 22-24'	SS		60	92.4				615
25		SS	SP	0					
		SS		30	3.8		Same as above with only slight petroleum odor.	2-inch diameter 0.010 machine slotted PVC screen lined with 20/40 silica sand filter pack.	
		SS		25	2.4		Gravel (GW), tan, wet, low plasticity, stiff, gravel is 1-inch diameter, chert, sub-rounded to rounded. Some coarse sand present.		610
30		SS		30	1.3				
		SS		50	0.6				605
35		SS	GW	30	1.5				
		SS		30	0.5				
		SS		0					600
40		SS		30	0.7			2-inch diameter 0.010 machine slotted PVC screen lined with 20/40 silica sand filter pack.	
		SS	CH				Clay (CH), gray, dry, high plasticity, very stiff to hard.		595

DRILLING CONTRACTOR **TSS**

DRILLING METHOD **HSA**

BOREHOLE DIAMETER (in.) **8**

DRILLING STARTED **4/15/10** ENDED **4/15/10**

REMARKS: **Drilled 0-1 within concrete breaker bit.**

Notes: Boring log should not be used separately from the original report.

LAEMAIN03 90107096 BORING LOGS GPJ LAEMAIN03.GDT 5/7/10

Terracon

BORING NO. **B-2A** SHEET **2** OF **2**

PROJECT **Landa Plaza Shopping Center**

LOCATION **315 Landa Street**

COORDINATES **N 29.7 W Abs(-98.137326)**

TOC ELEVATION **638.00** DATUM

PROJECT NO. **90107096**

LOGGED BY **KKB**

SAMPLE INFORMATION						STRATA	DESCRIPTION	WELL CONSTRUCTION DETAIL	ELEVATION FEET
DEPTH FEET	LAB SAMPLE	SAMPLE TYPE	USCS	Recovery %	PID (ppm)				
		SS		40	0.0				590

LAEWANN03 90107096 BORING LOGS.GPJ LAEWANN03.GDT 5/7/10

Terracon

BORING NO. **B-5A** SHEET **1** OF **1**

PROJECT **Landa Plaza Shopping Center**

LOCATION **315 Landa Street**

PROJECT NO. **90107096**

LOGGED BY **KKB**

COORDINATES

TOC ELEVATION **636.00** DATUM

DEPTH FEET	LAB SAMPLE	SAMPLE TYPE	USCS	Recovery %	PID (ppm)	STRATA	DESCRIPTION	WELL CONSTRUCTION DETAIL	ELEVATION FEET
		SH	GC				Clay (CH), 6 inches of topsoil, slightly moist, moderate plasticity, slightly stiff, some roots.	2-inch diameter solid PVC casing lined with a concrete seal.	635
		SH		0			Gravelly clay (GC(, brown, slightly moist, medium plasticity, stiff. Fill material. Concrete fragments present.		
5		SH		40	0.6		Sandy clay (SC), brown, slightly moist, low plasticity, soft, fine grained.		630
		SH	SC	60	0.1			2-inch diameter solid PVC casing lined with bentonite seal.	
		SH		67	0.2		Sand (SP), light brown to tan, slightly moist, low plasticity, very soft, fine grained.		
10		SH		67	0.2				625
		SH		80	0.1		Same as above but the sand is medium-grained.		
15		SS	SP	45	0.2				620
	B-5A 16-18'	SS		33	0.2		Same as above but the sand is coarse-grained.	2-inch diameter solid PVC casing lined with 20/40 silica sand filter pack.	
		SS		40	0.2		Gravel (GW), tan, moist to wet, low plasticity, stiff, gravel is about 1-inch diameter, chert, sub-rounded to rounded. Some coarse sand present.		
20		SS		33	0.3				615
		SS		33	0.2				
25		SS		40	0.2			2-inch diameter 0.010 machine slotted PVC screen lined with 20/40 silica sand filter pack.	610
		SS	GW	33	0.2				
30									605
		SS		10	0.2				
35									600
		SS		67	0.1		Clay (CH), gray to orange/tan, dry, high plasticity, very stiff to hard.	2-inch diameter 0.010 machine slotted PVC screen lined with 20/40 silica sand filter pack.	
40			CH						595

DRILLING CONTRACTOR **TSS**

DRILLING METHOD **HSA**

BOREHOLE DIAMETER (in.) **8**

DRILLING STARTED **4/16/10** ENDED **4/16/10**

REMARKS: **Drilled 0-2 within concrete breaker bit.**

Notes: Boring log should not be used separately from the original report.

LAEWAN03_90107096 BORING LOGS.GPJ LAEWAN03.GDT 5/7/10

Terracon

BORING NO. **B-11** SHEET **1** OF **1**

PROJECT **Landa Plaza Shopping Center**

LOCATION **315 Landa Street**

PROJECT NO. **90107096**

LOGGED BY **KKB**

COORDINATES

TOC ELEVATION **638.00** DATUM

DEPTH FEET	LAB SAMPLE	SAMPLE TYPE	USCS	Recovery %	PID (ppm)	STRATA	DESCRIPTION	WELL CONSTRUCTION DETAIL	ELEVATION FEET
		SH	PAVE	75	0.1		2 inches of aphalt and 7 inches of gravelly clay (GC) base material.	2-inch diameter solid PVC casing lined with a concrete seal.	
		SH	GC	60	0.1		Gravelly clay (GC), black, slightly moist, high plsticity, slightly stiff. Gravel is sub-angular, < 1-inch diameter, chert and limestone.		635
5		SH		67	0.1		Clay (CH), black, slightly moist, high plasticity, slightly stiff.		
		SH	CH	75	0.1		Same as above but turning dark gray with depth.		630
		SH		30	0.0		Clay (CH), brown, slightly moist, high plasticity, slightly stiff.	2-inch diameter solid PVC casing lined with bentonite seal.	
10		SH	CH	30	0.0				
		SH		40	0.0		Sandy clay (SC), light brown, slightly moist, low/medium plasticity, soft.		625
		SH	SC	67	0.0				
15		SS		55	0.0		Sand (SP), light brown, slightly moist, low plasticity, very soft, fine-grained.		
		SS		45	0.0		Same as above but medium-grained.	2-inch diameter solid PVC casing lined with 20/40 silica sand filter pack.	620
20		SS	SP	0					
		SS		30	0.2		Sand (SP), light brown to tan, moist, low plasticity, very soft, coarse-grained.		615
25		SS		0	0.1		Gravel (GW), light brown to tan, wet, low plasticity, stiff, gravel is 1-inch diameter, chert, sub-rounded to rounded. Some coarse sand present.		
		SS		50	0.4			2-inch diameter 0.010 machine slotted PVC screen lined with 20/40 silica sand filter pack.	610
		SS		70	0.3				
30		SS		15	0.2				
		SS	GW	30	0.1		Same as above with very slight petroleum-like odor.		605
35		SS		30	0.1		Same as above without odor.		
		SS		25	0.0				
		SS		20	0.0			2-inch diameter 0.010 machine slotted PVC screen lined with 20/40 silica sand filter pack.	600
40		SS		15	0.1				
	B-11 42-44'	SS		45	0.1				595
			CH				Clay (CH), gray, slightly moist, plastic, hard		

DRILLING CONTRACTOR **TSS**

DRILLING METHOD **HSA**

BOREHOLE DIAMETER (in.) **8**

DRILLING STARTED **4/15/10** ENDED **4/15/10**

REMARKS: **Drilled 0-1 within concrete breaker bit. Boring located ~32 feet southeast of dry cleaners.**

Notes: Boring log should not be used separately from the original report.

LAEWNING 90107096 BORING LOGS.GPJ LAEWNING.GDT 5/7/10

ATTACHMENT L

OIL & GAS REPORT

GeoPlus Oil & Gas Report

Satellite view

Target Property:

Dry Comal Hike and Bike Trail
New Braunfels, Comal County, Texas 78130

Prepared For:

Raba Kistner Environmental-San Antonio

Order #: 111976
Job #: 248574
Project #: ASF18-097-00
Date: 07/25/2018

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Target Property Summary

Target Property Information

Dry Comal Hike and Bike Trail
New Braunfels, Texas 78130

Coordinates
Corridor

USGS Quadrangle
New Braunfels West, TX

Geographic Coverage Information

County/Parish: Comal (TX)
ZipCode(s):
New Braunfels TX: 78130

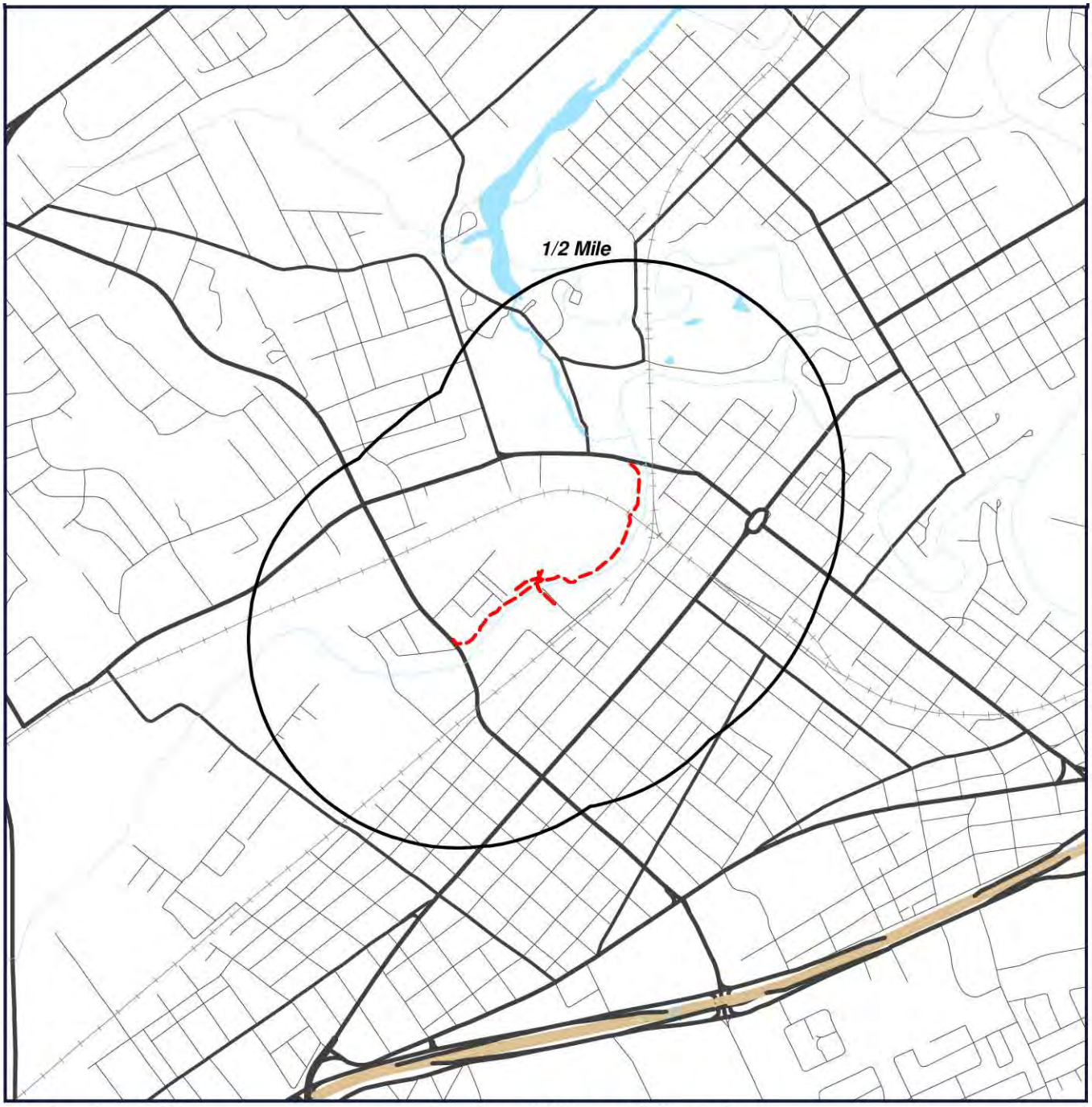
Database Radius Summary

STATE (TX) LISTING

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
OGWELLS	0.5000	0	0	0	0	NS	NS	0
SUB-TOTAL		0	0	0	0	0	0	0
TOTAL		0	0	0	0	0	0	0

NOTES:
NS = NOT SEARCHED
TP/AP = TARGET PROPERTY/ADJACENT PROPERTY

OIL & GAS MAP



Target Property (TP)

Surface Location

Dry Comal Hike and Bike Trail
New Braunfels, Texas
78130

N
W E
S

0' 1000' 2000' 3000'
SCALE: 1" = 2000'

[Click here to access Satellite view]

Located Sites Summary

No Records Found.

OGWELLS Oil and Gas Wells

VERSION DATE: 05/16/17

This oil and gas well data set is provided by the Geographic Information System of the Railroad Commission of Texas (the Commission). The data set includes oil and gas well records dating back to the early 1960's, some wells prior to the 1960's are also included with with no API and/or a historical API number in place. The Commission shall not be held liable for use of this data, which is provided as a public service for informational purposes only. Users are responsible for checking the accuracy, completeness, currency, and/or suitability of this data set themselves.

THREATENED AND ENDANGERED SPECIES HABITAT EVALUATION

Dry Comal Creek Hike and Bike Trail
New Braunfels, Comal County, Texas

RKEI Project No. ASF18-097-00

Prepared for:

City of New Braunfels

550 Landa Street
New Braunfels, Texas 78130

Prepared by:

RABA KISTNER ENVIRONMENTAL

12821 West Golden Lane
San Antonio, Texas 78249

August 2018

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EXECUTIVE SUMMARY

On behalf of the City of New Braunfels (CLIENT), **Raba Kistner Environmental, Inc.** (**RKEI**) conducted a state and federal listed species habitat evaluation for the proposed Dry Comal Creek Trail located between Landa Street and North Walnut Avenue in the City of New Braunfels, Comal County, Texas. The proposed linear trail would be improved with concrete and consist of shared-use paths, clear and safe connections to local destinations, and links to adjoining neighborhoods. The trail will begin at Landa Street and run southwest connecting to North Walnut Avenue. The Review Area is approximately one mile in length.

RKEI staff conducted field reconnaissance and habitat assessment activities within the Review Area on July 30, 2018. The habitat evaluation included a visual inspection of the habitat within the Review Area to determine the potential presence of federal and/or state threatened and endangered species, protected flora/fauna, or critical habitats. Field assessment activities were accomplished by characterizing the environment (ground surface, vegetation communities, water features, etc.) to identify conditions that may be consistent with known habitat parameters of threatened and endangered species listed for the county.

The Review Area and adjacent properties consist mainly of undeveloped land, residential properties, and light commercial.

Based on the information reviewed:

- No designated critical habitat occurs in the Review Area.
- There will be *no effect/impact* on federal and/or state-listed threatened or endangered species.
- Migratory birds could occur in the Review Area. **Section 3.0** includes recommendations related to migratory birds.

1.0 INTRODUCTION

1.1 Purpose

Species listed by the U.S. Fish and Wildlife Service (USFWS) are protected by the Endangered Species Act (ESA), and, therefore, a "take" of threatened or endangered species is illegal. A "take" is defined as "harm, harass, pursue, shoot, wound, kill, trap, capture, or collect, or engage in any such conduct (TPWD 2018a)." Thus, the removal of species habitat would be considered a take, violating the ESA. Threats considered to be potentially endangering to listed species include the following: (i) destruction and/or deterioration of habitat by commercial, residential, and road construction; (ii) filling of caves, (iii) loss of permeable cover; (iv) contamination from anthropogenic sources such as septic effluent, sewage leaks, storm water runoff, and pesticides; (v) predation by and competition with non-native fire ants; and (vi) vandalism.

In addition, Chapter 68 of the Texas Parks and Wildlife Code protects species considered to be threatened with extinction within Texas. Any take of state-listed species is prohibited by state law. State-listed species may only be handled (including relocation) by persons with a scientific collecting permit obtained through the Texas Parks and Wildlife Department (TPWD).

The purpose of this report is to document a desktop and field evaluation conducted by **RKEI** with the goal of identifying potential impact-causing activities related to the proposed trail development.

1.2 Project Location

As shown in **Figure 1**, the Review Area is approximately one mile in length along the Dry Comal Creek. It is located between Landa Street and North Walnut Avenue in the City of New Braunfels, Comal County, Texas. Adjacent properties consist of vacant land, residential, New Braunfels Smokehouse, Knights of Columbus, North Walnut Avenue right-of-way (ROW), Landa Street ROW, and Union Pacific Railroad.

2.0 DESKTOP REVIEW AND FIELD OBSERVATIONS

Prior to initiating the field survey, **RKEI** reviewed available topographic maps, aerial photography, TPWD and USFWS published species lists, the Texas Natural Diversity Database (TXNDD), the USFWS Critical Habitat Portal, and other desktop resources. These published resources were reviewed to gather information regarding the ecological setting and potential habitats that could support threatened or endangered species in the Review Area.

RKEI staff conducted field reconnaissance and habitat assessment activities within the Review Area on July 30, 2018. The habitat evaluation included a visual inspection of the Review Area to determine the potential presence of federal and/or state threatened and endangered species, protected flora/fauna, and critical habitats. Field assessment activities were accomplished by characterizing the environment (ground surface, vegetation communities, water features, etc.) to identify conditions that may be consistent with known habitat parameters of threatened and endangered species listed for the county. Photographs taken during the field assessment are included as **Appendix A**.

2.1 Topography and Drainage

Topographic maps are helpful in examining historic natural drainage patterns and landscape features such as vegetative cover. The *U.S. Geological Survey* (*USGS*) *7.5-Minute Series, New Braunfels West and New Braunfels East, Texas Quadrangles* (**Figure 2**) depict the Review Area as undeveloped land. Dry Comal Creek is indicated by a dash and solid blue line. The majority of the Review Area is approximately 620 feet above mean sea level (amsl).

2.2 Aerial Photography

Aerial photographs provide a historical record of area use and development and help track natural and man-made changes to the landscape over time. **RKEI** reviewed aerial photography dated 1938, 1952, 1958, 1969, 1976, 1987, 1995, 2004, 2005, 2008, 2010, 2012, 2014, and 2016. In all imagery, the Review Area is depicted as vacant, undeveloped land, and Dry Comal Creek is visible. Adjacent transportation ROWs, present day New Braunfels Smokehouse, and railroad are visible throughout the imagery. The present day Knights of Columbus first appears within the 1969 photograph and remains through 2016. The present day residential subdivision appears to undergo development beginning in 2010 and further develops through 2016. Prior to the adjacent subdivision, few residential homesteads are depicted from 1938 through 2010. All historical images are included as **Appendix B**.

2.3 Ecological Setting

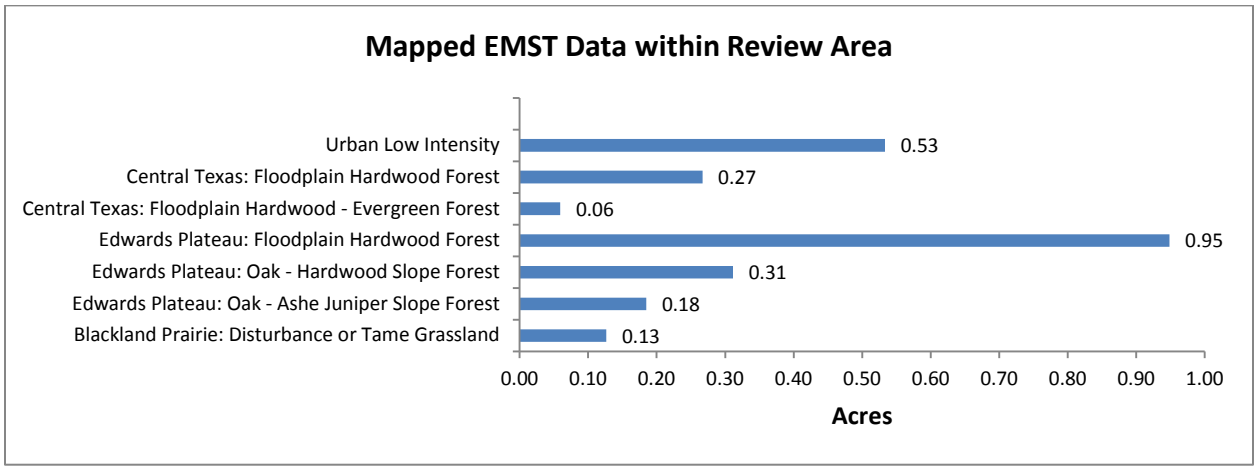
2.3.1 Climate

Climate data from the Southern Regional Climate Center (SRCC) was reviewed for the weather station at New Braunfels (Station ID 416276), located approximately 3 miles southwest of the Review Area. The average temperature last year was approximately 67.3° (F) with an average high of 78.7° and an average low of 55.9°. Monthly rainfall averages tend to be higher in spring and fall with May and June averaging 3.95 and 4.78 inches, respectively; and October averaging 3.80 inches of precipitation (SRCC 2017).

2.3.2 Vegetation

According to the TPWD map publication titled *Natural Regions of Texas* (TPWD 2011), the project area is located in the Texas Blackland Prairies. According to Texas A&M Forest Service, this ecoregion is characterized by dark-colored alkaline clays, interspersed with some gray acid sandy loams. The eco-region consists of a diverse assortment of perennial and annual grasses (TAMU 2018). The dominant tree is Live Oak (TAMU 2018). Trees in the northern and central area consist of mesquite (*Prosopis glandulosa*), post oak (*Quercus stellata*), blackjack oak (*Quercus marilandica*), American Elm (*Ulmus americana*), winged elm (*Ulmus alata)*, cedar elm (*Ulmus crassifolia)*, sugarberry (*Celtis laevigata*), green ash (*Fraxinus pennsylvanica*), Osage-orange (*Maclura pomifera*), and eastern redcedar (*Juniperus virginiana*) (TAMU 2018). In the bottomland woodlands throughout this region are pecan trees (*Carya illinoinensis*), black walnut (*Juglans nigra*), black willow (*Salix nigra*), American sycamore (*Platanus occidentalis*), honey locust (*Gleditsia triacanthos*) and bur oak (*Quercus macrocarpa*) (TAMU 2018). The project is primarily located in the Middle Guadalupe watershed (EPA 2018).

RKEI reviewed data from the TPWD's Ecological Mapping System of Texas (EMST) (TPWD 2014), which classifies existing vegetation and models the ecological systems by overlaying data such as land position, slope, aspect, and soil type. A 10-foot buffer around the proposed trail line was utilized. Based on this review, the following vegetation types are mapped.



Data Source: TPWD EMST https://tpwd.texas.gov/landwater/land/programs/landscape-ecology/ems/ (Downloaded August 7, 2018).

The above data is generally consistent with field observations. Much of the area is urban with riparian along Dry Comal Creek and mixed with native and invasive species.

2.3.3 Riparian Buffers

Riparian buffers are those areas located along streams and rivers, where vegetation is strongly influenced by the presence of water. Although they comprise a relatively small proportion of the total habitat in Texas, these areas are some of the most productive for wildlife. Their value is especially important in agricultural settings where wildlife habitat is limited or non-existent. TPWD therefore considers conservation of riparian buffers to be critical for the success of flora and fauna species. These conditions were observed within the Review Area along Dry Comal Creek.

2.4 Wetlands

Since the 1970s, the U.S. Army Corps of Engineers (USACE) and the U.S. Environmental Protection Agency (EPA) have defined 'wetlands' as:

> *"Wetlands are areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas (EPA, USACE 2017)."*

In addition to flood water absorption and excess nutrient and pollutant absorption, wetlands play important roles in watershed ecology by providing habitat for plants and animals.

The National Wetlands Inventory (NWI) (**Figure 3**), published by the USFWS, was reviewed for information on possible wetlands and other surface water features in the Review Area. These maps were created using stereoscopic analysis of high-altitude photographs. NWI maps assign wetland classification codes to prominent surface water features. The codes are based on the 1979 USFWS publication titled *Classification of Wetlands and Deepwater Habitats of the United States*, and are a series of letter and number codes that adapted the national wetland classification system to map form. These alpha-numeric codes correspond to the classification nomenclature that best describes the feature (e.g. R4SBC). Although NWI maps provide a good screening method for identifying potential features, a detailed on-the-ground and historical analysis of a site is required.

RKEI reviewed NWI data for the Review Area and adjacent areas (USFWS 2018a). An NWI feature near the Review Area and adjacent areas is identified as a riverine, intermittent, seasonally flooded streambed (R4SBC). This feature was noted to be flowing at the time of the field investigation and is identified as Dry Comal Creek. No other NWI features were mapped surrounding the Review Area.

2.5 TPWD Annotated List of Rare Species

RKEI reviewed the TPWD *Annotated List of Rare Species for Comal County* (last revision December 30, 2016) (TPWD 2016). This list describes state and federal listed species that have the potential to occur in Comal County, Texas along with their listing status. Pertinent data for each listed species are included in the table below. The *Annotated List of Rare Species for Comal County* is included as **Appendix C**.

Table 1. State and Federal Threatened or Endangered Species, General Habitat Information and Information Pertaining to Review Area Habitat

Scientific Name	Description	Impact / Effect?	Pertinent Information
AMPHIBIANS			
Cascade Caverns salamander *Eurycea latitans complex* T	Endemic; subaquatic; springs and caves in Medina River, Guadalupe River, and Cibolo Creek watersheds within Edwards Aquifer area.	No Impact	The project would not impact the deep artesian Edwards Aquifer habitats.
Comal blind salamander *Eurycea tridentifera* T	Endemic; semi-troglobitic; found in springs and waters of caves.	No Impact	The project would not impact the deep artesian Edwards Aquifer habitats.
BIRDS			
Golden-cheeked Warbler *Setophaga chrysoparia* LE, E	Juniper-oak woodlands; dependent on Ashe juniper (also known as cedar) for long fine bark strips, only available from mature trees, used in nest construction; nests are placed in various trees other than Ashe juniper; only a few mature junipers or nearby cedar brakes can provide the necessary nest material; forage for insects in broad-leaved trees and shrubs; nesting late March-early summer.	No Effect	There is no Oak-juniper woodland vegetation on site that would provide ideal habitat for this species. May migrate over the site, but is not expected to inhabit the Review Area.
Black-capped Vireo *Vireo atricapilla* LE, E	Oak-juniper woodlands with distinctive patchy, two-layered aspect; shrub and tree layer with open, grassy spaces; requires foliage reaching to ground level for nesting cover; return to same territory, or one nearby, year after year; deciduous and broad-leaved shrubs and trees provide insects for feeding; species composition less important than presence of adequate broad-leaved shrubs, foliage to ground level, and required structure; nesting season March-late summer.	No Effect	There is no Oak-juniper woodland vegetation on site. May migrate over the site, but is not expected to inhabit the Review Area.
Bald Eagle *Haliaeetus leucocephalus* DL, T	Found primarily near rivers and large lakes; nests in tall trees or on cliffs near water; communally roosts, especially in winter; hunts live prey, scavenges, and pirates food from other birds.	No Effect	This species may migrate over the site, but it is not expected to inhabit the Review Area.
Zone tailed Hawk *Buteo albonotatus* T	Arid open country, including open deciduous or pine-oak woodland, mesa or mountain county, often near watercourses, and wooded canyons and tree-lined rivers along middle-slopes of desert mountains; nests in various habitats and sites, ranging from small trees in lower desert, giant cottonwoods in riparian areas, to mature conifers in high mountain regions	No Impact	May migrate over the site, but is not expected to inhabit the Review Area.
American Peregrine Falcon *Falco peregrinus anatum* DL, T	Year-round resident and local breeder in west Texas, nests in tall cliff eyries; also, migrant across state from more northern breeding areas in US and Canada, winters along coast and farther south; occupies wide range of habitats during migration, including urban, concentrations along coast and barrier islands; low-altitude migrant, stopovers at leading landscape edges such as lake shores, coastlines, and barrier islands.	No Effect	May migrate over the site, but is not expected to inhabit the Review Area.

Scientific Name	Description	Impact / Effect?	Pertinent Information
Arctic Peregrine Falcon *Falco peregrinus tundrius* DL	Migrant throughout state from subspecies' far northern breeding range, winters along coast and farther south; occupies wide range of habitats during migration, including urban, concentrations along coast and barrier islands; low-altitude migrant, stopovers at leading landscape edges such as lake shores, coastlines, and barrier islands.	No Effect	May migrate over the site, but is not expected to inhabit the Review Area.
Peregrine Falcon *Falco peregrinus* DL, T	Both subspecies migrate across the state from more northern breeding areas in US and Canada to winter along coast and farther south; subspecies (F. p. anatum) is also a resident breeder in west Texas; the two subspecies' listing statuses differ, F.p. tundrius is no longer listed in Texas; but because the subspecies are not easily distinguishable at a distance, reference is generally made only to the species level; see subspecies for habitat.	No Effect	May migrate over the site, but is not expected to inhabit the Review Area.
Whooping Crane *Grus americana* LE, E	Potential migrant via plains throughout most of state to coast; winters in coastal marshes of Aransas, Calhoun, and Refugio counties.	No Effect	May migrate over the site, but is not expected to inhabit the Review Area.
CRUSTACEANS			
Peck's cave amphipod *Stygobromus pecki* LE, E	Small, aquatic crustacean; lives underground in the Edwards Aquifer; collected at Comal Springs and Hueco Springs.	No Effect	The project would not impact the deep artesian Edwards Aquifer habitats.
FISHES			
Fountain Darter *Etheostoma fonticola* LE, E	Known only from the San Marcos and Comal rivers; springs and spring-fed streams in dense beds of aquatic plants growing close to bottom, which is normally mucky; feeding mostly diurnal; spawns year-round with August and late winter to early spring peaks.	No Impact	The project will not disturb Dry Comal Creek; thus, no impact is expected.
INSECTS			
Comal Springs dryopid beetle *Stygoparmus comalensis* LE, E	Dryopids usually cling to objects in a stream; dryopids are sometimes found crawling on stream bottoms or along shores; adults may leave the stream and fly about, especially at night; most dryopid larvae are vermiform and live in soil or decaying wood.	No Effect	The project will not disturb Dry Comal Creek; thus, no effect is expected.
Comal Springs riffle beetle *Heterelmis comalensis* LE, E	Comal and San Marcos Springs.	No Effect	The project will not disturb Dry Comal Creek; thus, no effect is expected.
MAMMALS			
Red wolf *Canis rufus* LE, E	Extirpated; formerly known throughout eastern half of Texas in brushy and forested areas, as well as coastal prairies.	No Effect	This species is extirpated from this part of Texas.
Black bear *Ursus americanus* T	Bottomland hardwoods and large tracts of inaccessible forested areas	No Impact	The Review Area and surrounding areas do not have large tracts of inaccessible forests that would provide habitat for this species.

Scientific Name	Description	Impact / Effect?	Pertinent Information
Jaguarundi *Herpailurus yaguarondi* LE, E	Thick brushlands, near water favored; 60 to 75 day gestation, young born sometimes twice per year in March and August, elsewhere the beginning of the rainy season and end of the dry season.	No Effect	The Review Area and surrounding areas do not have large tracts of inaccessible forests that would provide habitat for this species.
MOLLUSKS			
Golden orb *Quadrula aurea* C, T	Sand and gravel in some locations and mud at others; found in lentic and lotic; Guadalupe, San Antonio, Lower San Marcos, and Nueces River basins.	No Impact	The Review Area is within the Guadalupe River Basin and habitat could exist. However, the project will not disturb Dry Comal Creek; thus, impact is not expected.
False spike mussel *Quadrula mitchelli* T	Possibly extirpated in Texas; probably medium to large rivers; substrates varying from mud through mixtures of sand, gravel and cobble; one study indicated water lilies were present at the site; Rio Grande, Brazos, Colorado, and Guadalupe (historic) river basins.	No Impact	This species is possibly extirpated, and Dry Comal Creek would not be disturbed during the project. Impact is not expected.
Texas fatmucket *Lampsilis bracteata* C, T	Streams and rivers on sand, mud, and gravel substrates; intolerant of impoundment; broken bedrock and course gravel or sand in moderately flowing water; Colorado and Guadalupe River basins.	No Impact	The Review Area is within the Guadalupe River Basin and habitat could exist, However, the project will not disturb Dry Comal Creek; thus, impact is not expected.
Texas pimpleback *Quadrula petrina* C, T	Mud, gravel and sand substrates, generally in areas with slow flow rates; Colorado and Guadalupe river basins.	No Impact	The Review Area is within the Guadalupe river basin and habitat could exist. However, the project will not disturb Dry Comal Creek; thus, impact is not expected.
REPTILES			
Cagle's map turtle *Graptemys caglei* T	Endemic; Guadalupe River System; shallow water with swift to moderate flow and gravel or cobble bottom, connected by deeper pools with a slower flow rate and a silt or mud bottom; gravel bar riffles and transition areas between riffles and pools especially important in providing insect prey items; nests on gently sloping sand banks within ca. 30 feet of water's edge.	No Impact	Habitat could potentially exist. However the project will not disturb Dry Comal Creek; thus, impact is not expected.
Texas horned lizard *Phrynosoma cornutum* T	Open, arid and semi-arid regions with sparse vegetation, including grass, cactus, scattered brush or scrubby trees; soil may vary in texture from sandy to rocky; burrows into soil, enters rodent burrows, or hides under rock when inactive; breeds March-September.	No Impact	Sparsely-vegetated areas and loose sandy and loamy soils preferred by this species are not present; therefore, impact is unlikely.

Scientific Name	Description	Impact / Effect?	Pertinent Information
PLANTS			
Bracted twistflower *Streptanthus bracteatus* C	Texas endemic; shallow, well-drained gravelly clays and clay loams over limestone in oak juniper woodlands and associated openings, on steep to moderate slopes and in canyon bottoms; several known soils include Tarrant, Brackett, or Speck over Edwards, Glen Rose, and Walnut geologic formations; populations fluctuate widely from year to year, depending on winter rainfall; flowering mid-April-late May, fruit matures and foliage withers by early summer	No Effect	Habitat for this species is not present in the Review Area.

Status Key:
LE, LT - Federally Listed Endangered/Threatened
E, T - State Listed Endangered/Threatened
C - Candidate for Endangered Status

2.6 Texas Natural Diversity Database (TXNDD)

RKEI reviewed data from the TXNDD on August 7, 2018 (TPWD 2018b) to identify known occurrences of listed species occurring near the Review Area. The TXNDD provides Element of Occurrence (EO) records, which includes known occurrences of species that are tracked by TPWD and maintained in a database. The *New Braunfels East* and adjacent USGS 7.5 minute quadrangles were searched. Information from the TXNDD cannot be used to determine the presence/absence of species, but it can provide valuable information about potential use of the surrounding environment by species.

The TPWD provides TXNDD data in Geographic Information System (GIS) shapefile (.shp) format for analysis by the end user. Individual species occurrences are generally provided as circular shapes, centered on the species' reported location. The circular shapes are generally sized based on the degree of location accuracy, where smaller circles indicate higher degree of location certainty (e.g. collected using GPS devices) and larger circles indicate less accurate location data.

The TXNDD indicated 12 known occurrences within a 1.5-mile radius of the Review Area (**Figure 4**). These records are included as **Appendix D**. The following **Table 2** describes these occurrences.

Table 2. TXNDD EO Records

Species Name	EO ID	Location	Observation Details
Bracted Twistflower *Streptanthus bracteatus*	2210	New Braunfels	First and last observed in May of 1846.
Buckley Tridens *Tridens buckleyanus*	5323	North of park in New Braunfels	General description of "rocky places, open woods." Additional information was not provided.
Comal Springs Riffle Beetle *Heterelmis comalensis*	5046	Landa Park Springs	Generally described as "headwater springs to the Comal River." Additional information was not provided.

Species Name	EO ID	Location	Observation Details
Disc Cavesnai *Phreatodrobia plana*	12762	Comal Springs	First and lastly observed in July/August of 1981. Collected using PVC pipes with irrigation socks or funnel netting.
Fountain Darter *Etheostoma fonticola*	2056	Comal Springs, headwaters of Comal River	In January of 1981, two specimens were collected, and in 1952, at least one was collected. Fish were formerly destroyed by low water and reintroduced in 1975. Found in quiet clear water with rooted vegetation and algae. Presence of Fountain Darters in headwaters of the Comal River confirmed in the summer of 1989. Last observation was in 1997.
Guadalupe Bass *Micropterus treculii*	1068	Guadalupe River in Comal County in New Braunfels, I-35 crossing	Last observed in 1976. Medium sized stream, riffles, pools, gravel, and rock substrate. Endemic to several rivers of eastern Edwards Plateau.
Guadalupe Darter *Percina apristis*	13777	Not reported.	First observed in 1884, and last observed in 2006. At least one specimen collected in 1884, twenty-one in 1951, one in 1954, at least two in 1991, and at least one in 2006.
Horseshoe Liptooth *Daedalochila hippocrepis*	8535	Spring 1 and 3 at Landa Park.	First observation in 1997, and last observed in 2002. In areas with much leaf litter and detritus. Monitoring may require a more intensive search effort with less focus on randomizing until concluding a better habitat profile.
Lindheimer's Tickseed *Desmodium lindheimeri*	8523	Landa Park in New Braunfels. Lower slopes and along bed of intermittent creek, various spots along eastern portion of Panther Canyon Trail, northwest of Comal Springs.	Unknown first observation date; however, was last observed in 1997.Observed in mostly deciduous woodland in bottom of limestone canyon containing an intermittent stream. Occurs on alluvium/colluvium on low shaded banks of creek and drier more exposed sites. Multiple specimens collected in Comal County yet lack direction, collected over several years.
Texas Amorpha *Amorpha roemeriana*	1648	New Braunfels	First and lastly observed in 1850. No other information reported.
Texas River Shrimp *Palaemonetes texanus*	10503	Comal River, New Braunfels	Article stated range of species included the Comal River in the City of New Braunfels. No additional information was reported.
Texas Salamander *Eurycea neotenes*	7298	Comal Springs, Landa Park, New Braunfels	First observed in 1948, and last observed in 2005. Found within a large limestone spring feeding a clear creek. The creek was shallow with gravel bottom and some emergent vegetation. Salamanders collected beneath rocks in shallow water and seen to retreat under ledges at the stream edge. Recommended to protect water quality and keep spring from dying in order to conserve species.
Texas Shiner *Notropis amabilis*	13569	Not reported.	First observed in 1830, and last observed in 1980. In 1830, 1882, 1884, 1891, and 1933, at least one specimen was collected per noted year. In 1951, one hundred specimens were collected, and in 1970, five were collected. In 1980, one hundred twenty four specimens were collected.

2.7 USFWS Critical Habitat

When a species is proposed for listing as Endangered or Threatened under the ESA, the USFWS must consider whether there are areas of habitat believed to be essential to the species' conservation. Those areas may be proposed for designation as "critical habitat." Federal agencies and project developers proposing activities that would require a federal permit (e.g. USACE 404 permit) must make special efforts to protect the important characteristics of these areas. Based on a review of the USFWS Information, Planning, and Conservation (IPaC) report (**Table 3**) (USFWS 2018b), and the USFWS Critical

Habitat Mapper tool (http://ecos.fws.gov/crithab/flex/crithabMapper.jsp?), there is no designated critical habitat within the Review Area.

2.8 USFWS IPaC

RKEI reviewed information from the USFWS IPaC decision support system, dated August 5, 2018, to identify whether endangered species, migratory birds, critical habitat, wildlife refuges, or wetlands could be affected by the proposed project.

2.8.1 IPaC Threatened and Endangered Species

According to the IPaC, nine endangered, three threatened, and five candidate species were listed as potentially occurring in the Review Area; however, see the table below for effect determinations based on field observations. No critical habitat or wildlife refuge areas were identified for the Review Area. The IPaC also reports two species of migratory birds with the potential to occur in the Review Area (See **Section 2.8.2**). The complete IPaC report is included as **Appendix E.**

Table 3. USFWS IPaC Trust Resource Report and Effect Determination

Species Name	Status	Condition Info	Effect?	Pertinent Information
BIRDS				
Piping Plover *Charadrius melodus*	Threatened	Open sandy beaches, especially above tideline, and alkali flats. (Cornell 2017a)	No	No suitable habitat for this species. This species only needs to be considered for wind energy projects.
Red Knot *Calidris canutus*	Threatened	Breeds in drier tundra areas, such as sparsely vegetated hillsides. Outside of breeding season, it is found primarily in intertidal, marine habitats, especially near coastal inlets, estuaries, and bays. (Cornell 2017b)	No	No suitable habitat for this species. This species only needs to be considered for wind energy projects.
Golden-cheeked Warbler *Setophaga chrysoparia*	Endangered	Nests only in juniper-oak woodlands present in central Texas. (Cornell 2017c)	No	No suitable habitat for this species.
Whooping Crane *Grus americana*	Endangered	Whooping Cranes breed in shallow, grassy wetlands with grasslands or scattered evergreens. During migration, they stop over on wide shallow river flats. They winter mainly in coastal marshes and estuaries. They sometimes forage at crop fields (Cornell 2017d).	No	May migrate over the site, but is not expected to inhabit the Review Area.
Least tern *Sterna antillarum*	Endangered	Prefers sandy beaches for nesting, but it will use a flat gravel roof of a building. On sunny days the hot tar showing through the gravel can burn the feet of chicks or become stuck in their down. (Cornell 2017e)	No	May migrate over the site, but is not expected to inhabit the Review Area. This species only needs to be considered for wind energy projects.

Species Name	Status	Condition Info	Effect?	Pertinent Information
AMPHIBIANS				
San Marcos Salamander *Eurycea nana*	Threatened	This species is only found in Spring Lake and adjacent streams. (TPWD 2018c)	No	The Review Area does not contain habitat for this species.
Texas Blind Salamander *Typlomolge rathbuni*	Endangered	This species lives in water filled caves of the Edwards Aquifer. (TPWD 2018d)	No	The Review Area does not contain habitat for this species.
FISHES				
Fountain Darter *Etheostoma fonticola*	Endangered	Fountain darters require clean, spring-fed waters with bottom vegetation (TPWD 2018d)	No	This species is known to inhabit only the Comal Springs River System in San Marcos, Texas (USFWS 2018c).
CLAMS				
Golden orb *Quadrula aurea*	Candidate	Sand and gravel in some locations and mud at others; found in lentic and lotic; Guadalupe, San Antonio, Lower San Marcos, and Nueces River basins.	No	This species is only known to inhabit flowing waters in moderately sized rivers. Endemic to the Guadalupe, Medina, San Antonio, San Marcos, Frio, and Nueces rivers and Cibolo Creek. The Review Area is not one of these locations (USFWS 2016a).
Texas fatmucket *Lampsilis bracteata*	Candidate	This species prefers moderately sized rivers in mud, sand, or gravel. Sometimes narrow crevices between bedrock. (USFWS 2016b)	No	The Review Area does not contain suitable habitat for this species; further, it does not occurs within the range of the project.
Texas pimpleback *Quadrula petrina*	Candidate	This species prefers moderately sized rivers.	No	This species is only known to inhabit sections of the Concho River, San Saba River (Menard County), and the San Marcos River. Remaining populations occur in the Colorado or Guadalupe-San Antonio River Systems (USFWS 2015a). While the species is within range, it is not expected to inhabit the Review Area.
Texas Fawnsfoot *Quadrula petrina*	Candidate	Very little information known of species and have not been found alive for years. Recent discovery in Brazos River suggesting preferred habitat of rivers with soft, sandy sediment with moderate water flow (USFWS 2015b).	No	This species does not occur within Comal County, and desired habitat does not occur within the Review Area.
INSECTS				
Comal Springs Dryopid beetle *Stygoparnus comalensis*	Endangered	Blind, aquatic beetle that lives in two specific underground springs in Central Texas.	No	There is no suitable habitat for this species in the Review Area.
Comal Springs Riffle Beetle *Heterelmis comalensis*	Endangered	An aquatic beetle found near the openings of natural springs in Central Texas	No	There is no suitable habitat for this species in the Review Area.

Species Name	Status	Condition Info	Effect?	Pertinent Information
CRUSTACEANS				
Peck's Cave Amphipod *Stygobromus =Stygonectes pecki*	Endangered	A blind species that lives in deep aquifers or stream bottoms.	No	The Review Area does not contain suitable habitat for this species.
FLOWERING PLANTS				
Bracted Twistflower *Streptanthus bracteatus*	Candidate	Texas endemic; shallow, well-drained gravelly clays and clay loams over limestone in oak juniper woodlands and associated openings, on steep to moderate slopes and in canyon bottoms; several known soils include Tarrant, Brackett, or Speck over Edwards, Glen Rose, and Walnut geologic formations; populations fluctuate widely from year to year, depending on winter rainfall; flowering mid-April-late May, fruit matures and foliage withers by early summer.	No	The Review Area does not contain suitable soil or habitat for this species.
Texas wild-rice *Ziziana texana*	Endangered	A wild rice only known to inhabit Hays County riverbeds (TPWD 2017d)	No	The Review Area is outside Hays county, and does not have ideal habitat for this species.

2.8.2 Migratory Birds

The Migratory Bird Treaty Act (MBTA) of 1918 (*16 USC § 703 – 705*) prohibits the take, possession, import, export, transport, selling, purchase, barter or offering for sale, purchase, or barter, of migratory birds, their eggs, parts, and nest except as authorized under a valid permit. It prohibits the "taking" of any native birds. "Taking" can mean killing a wild bird or possessing parts of a wild bird, including feathers, nests, or eggs.

The USFWS identified two bird species of concern with a potential to occur within the Review Area. A complete species list and their seasonal occurrence can be seen in **Appendix E.** No active or inactive nests were observed within the Review Area.

See **Section 3.0** for recommendations for federally-protected migratory birds.

2.8.3 Refuges

The proposed project does not occur on National Wildlife Refuge lands; therefore, it is not subject to the "Compatibility Determination" process by any refuges.

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 Conclusions

The Review Area currently consists of undeveloped land with portions of caliche pathways. Adjacent properties consist of vacant land, residential, New Braunfels Smokehouse, Knights of Columbus, North Walnut Avenue ROW, Landa Street ROW, and Union Pacific Railroad.

- No designated critical habitat occurs in the Review Area.
- There will be *no effect/impact* on federal and state-listed threatened or endangered species.
- Migratory birds could occur in the Review Area. The following section includes recommendations related to migratory birds.

3.2 Recommendations

3.2.1 Migratory Birds

The USFWS typically recommends that activities requiring vegetation removal or disturbance avoid the *peak nesting period* (March through August) to avoid destruction of individuals, nests or eggs. If project activities must be conducted during this time, the USFWS recommends surveying for nests prior to commencing work. If a nest is found, and if possible, the USFWS recommends that specific vegetation buffers (>50m for songbirds; >180m for birds of prey) remain around the nest until young have fledged or the nest is abandoned.

4.0 REFERENCES

Cornell University. 2017a. *The Cornell Lab of Ornithology: All About Birds: Piping Plover.* http://www.allaboutbirds.org/guide/piping_plover/lifehistory (Accessed August 9, 2018).

- 2017b. *The Cornell Lab of Ornithology: All About Birds: Red knot.* http://www.allaboutbirds.org/guide/red_knot/lifehistory (Accessed August 9, 2018).

- 2017c. *The Cornell Lab of Ornithology: All About Birds*. *Golden Cheeked Warbler*. https://www.allaboutbirds.org/guide/Golden-cheeked_Warbler/id (Accessed August 9, 2018).

- 2017d. *The Cornell Lab of Ornithology: All About Birds*: *Whooping Crane.* https://www.allaboutbirds.org/guide/Whooping_crane (Accessed August 9, 2018).

- 2017e. *The Cornell Lab of Ornithology: All About Birds: Least Tern.* http://www.allaboutbirds.org/guide/least_tern/lifehistory (Accessed August 9, 2018).

Environmental Protection Agency (EPA). 2017. *Section 404 of the Clean Water Act: How Wetlands are Defined and Identified.* http://water.epa.gov/type/wetlands/outreach/fact11.cfm (Accessed August 9, 2018).

GeoSearch*. Historical Aerial Photographs.* 1938, 1952, 1958, 1969, 1976, 1987, 1995, 2004, 2005, 2008, 2010, 2012, 2014, and 2016.

Southern Regional Climate Center. 2017. *New Braunfels, Station ID: 416276*. *Monthly Normals for Temperature and Rainfall.* https://www.srcc.lsu.edu/station_search/id=416276&year=2017# (Accessed August 6, 2018).

Texas A&M Forest Service. 2018. *Texas Ecoregions: Blackland Prairie Ecoregion.* http://texastreeid.tamu.edu/content/texasEcoRegions/BlacklandPrairies (Accessed August 7, 2018).

Texas Parks and Wildlife Department (TPWD). 2011. Map Publication: *Natural Regions of Texas*. https://tpwd.texas.gov/publications/pwdpubs/media/pwd_mp_e0100_1070t_08.pdf (Accessed August 6, 2018).

- 2014. *Texas Blackland Prairies; Ecological Mapping Systems of Texas*. https://tpwd.texas.gov/landwater/land/programs/landscape-ecology/ems/ (Downloaded August 7, 2018).

- 2016. *Annotated County Lists of Rare Species: Comal County*. Last Revision December 30, 2016.

- 2018a. *Species Protection Basics*. https://tpwd.texas.gov/huntwild/wild/wildlife_diversity/nongame/listed-species/species-protection.phtml. (Accessed August 9, 2018)

- 2018b. *Natural Diversity Database Data: New Braunfels East, Texas and Surrounding USGS Quads*.

- 2018c. *San Marcos Salamander.* http://tpwd.texas.gov/huntwild/wild/species/sanmarcossalamander/ (Accessed August 9, 2018).

- 2018d. *The Texas Blind Salamander*. http://tpwd.texas.gov/huntwild/wild/species/blindsal/ (Accessed August 9, 2018).

- 2018e. *The Fountain Darter*. https://tpwd.texas.gov/huntwild/wild/species/fdarter/ (Accessed August 9, 2018).

U.S. Fish and Wildlife Service (USFWS). 2015a. *Species Assessment and Listing Priority Assignment Form: Quadrula petrina*. https://ecos.fws.gov/docs/candidate/assessments/2016/r2/F04F_I01.pdf (Accessed August 9, 2018).

- 2015b. *Species Assessment and Listing Priority Assignment Form: Quadrula petrina*. https://ecos.fws.gov/docs/candidate/assessments/2016/r2/F04E_I01.pdf (Accessed August 9, 2018).

- 2016a. *Species Assessment and Listing Priority Assignment Form: Quadrula aurea.* https://ecos.fws.gov/docs/candidate/assessments/2016/r2/F04J_I01.pdf (Accessed August 9, 2018).

- 2016b. *Species Assessment and Listing Priority Assignment Form: Lampsilis bracteata.* https://ecos.fws.gov/docs/candidate/assessments/2016/r2/F04I_I01.pdf (Accessed August 9, 2018).

- 2017. *Critical Habitat Portal*. http://ecos.fws.gov/crithab/ (Accessed August 7, 2018).

- 2018a. *National Wetlands Inventory Mapper*. https://www.fws.gov/wetlands/data/mapper.html (Accessed August 9, 2018).

- 2018b. *Information, Planning, and Conservation (IPaC) Report*. (Submitted August 5, 2018).

- 2018c. *Environmental Conservation Online System: Fountain Darter*. https://ecos.fws.gov/ecp0/profile/speciesProfile?spcode=E00T (Accessed August 9, 2018).

5.0 ACRONYMS

.shp	shapefile
AMSL	Above Mean Sea Level
EMST	Ecological Mapping System of Texas
EO	Element of Occurrence
EPA	U.S. Environmental Protection Agency
ESA	Endangered Species Act
GIS	Geographic Information System
IPaC	Information, Planning, and Conservation
MBTA	Migratory Bird Treaty Act
NWI	National Wetlands Inventory
ROW	Right-of-Way
RKEI	Raba Kistner Environmental, Inc.
SRCC	Southern Regional Climate Center
TPWD	Texas Parks and Wildlife Department
TXNDD	Texas Natural Diversity Database
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
USACE	U.S. Army Corps of Engineers

FIGURES



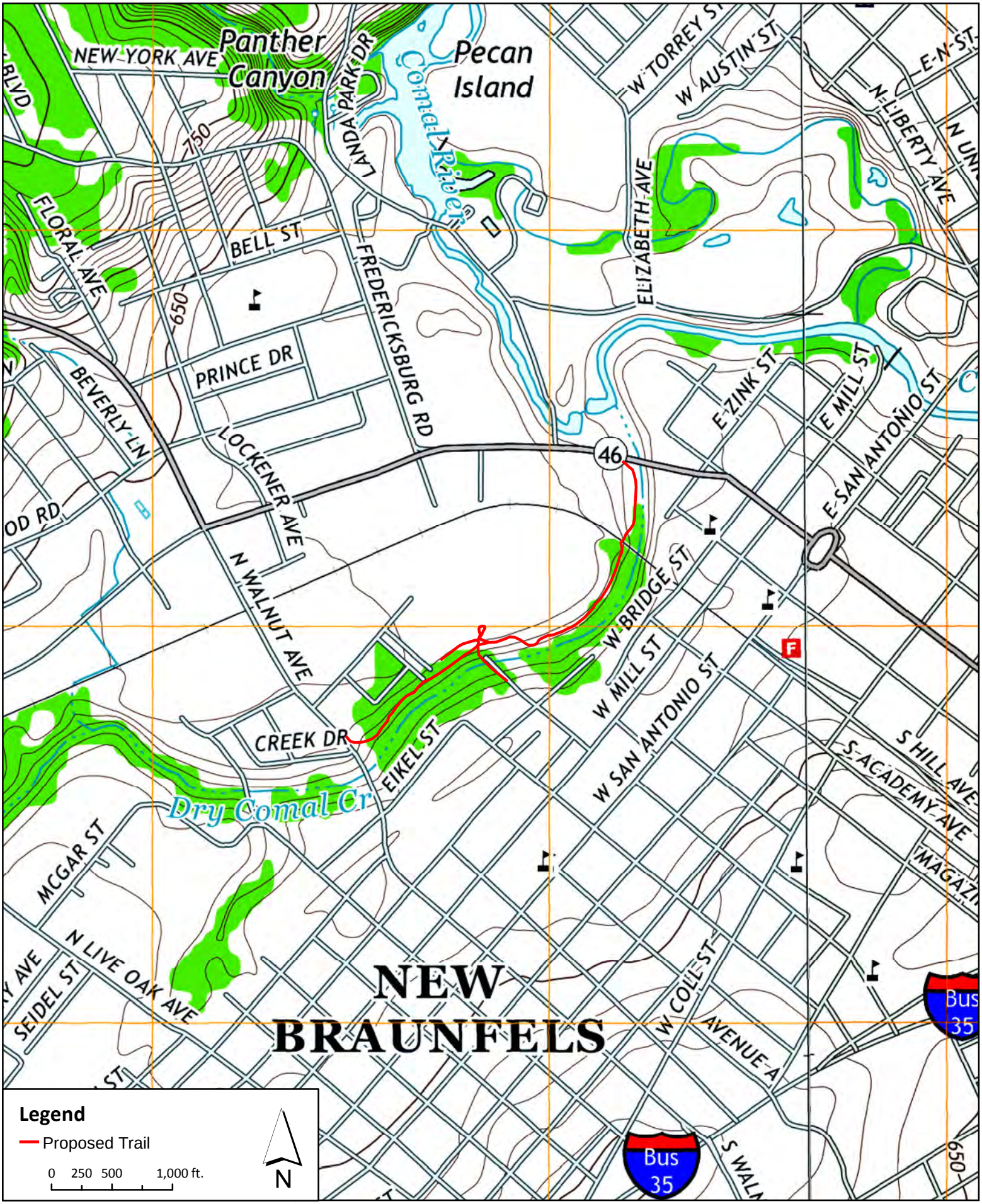
SOURCE: Aerial Photograph Obtained from Google Earth Pro - 2018

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PROJECT LOCATION MAP

DRY COMAL CREEK HIKE AND BIKE TRAIL
New Braunfels, Comal County, Texas

FIGURE 1



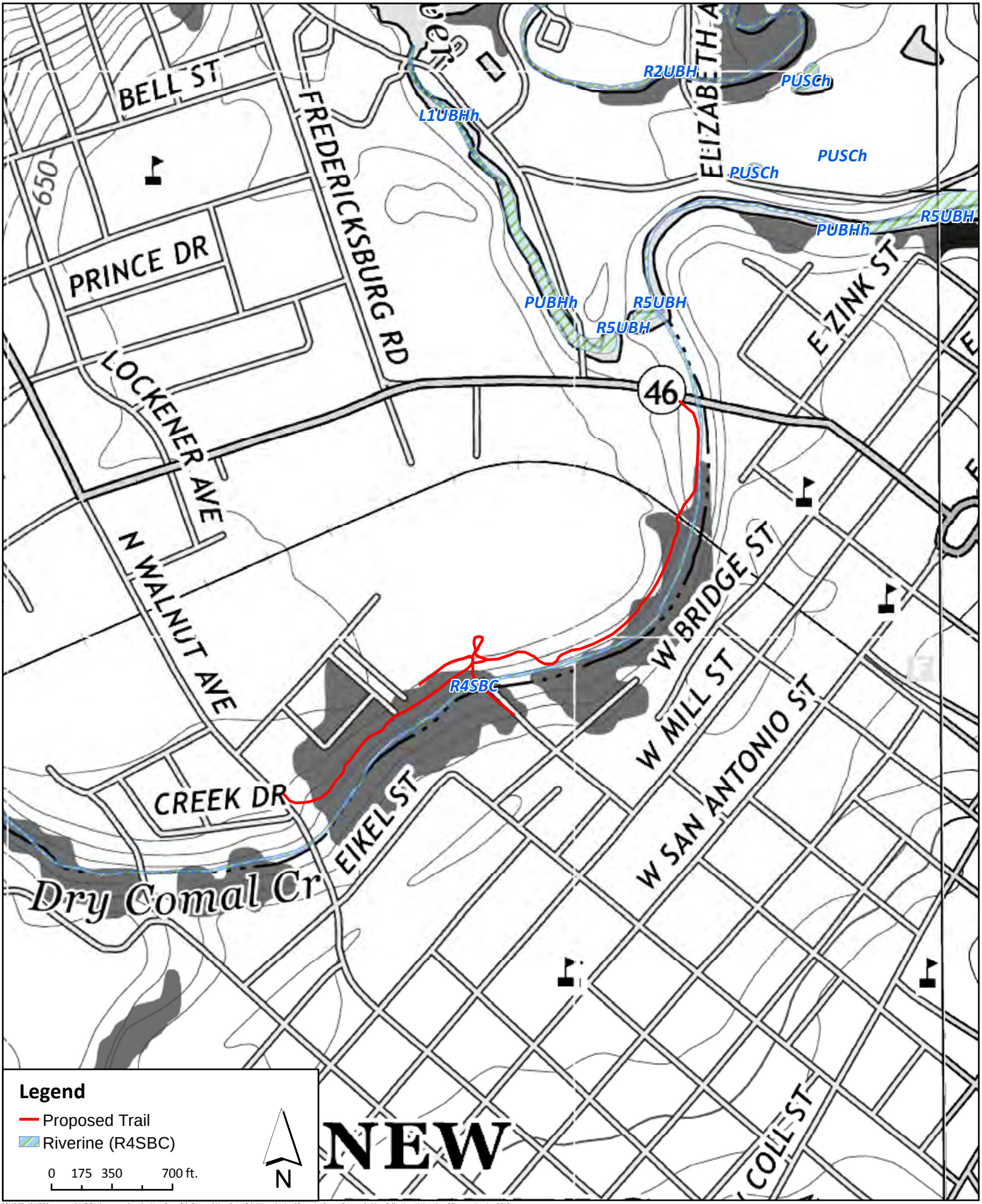
SOURCE: USGS Topographic 7.5 Minute Quadrangles New Braunfels East and New Braunfels West Obtained from the Perry -Casteneda Map Collection, University of Texas at Austin - 2013

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USGS TOPOGRAPHIC MAP

DRY COMAL CREEK HIKE AND BIKE TRAIL
New Braunfels, Comal County, Texas

FIGURE 2



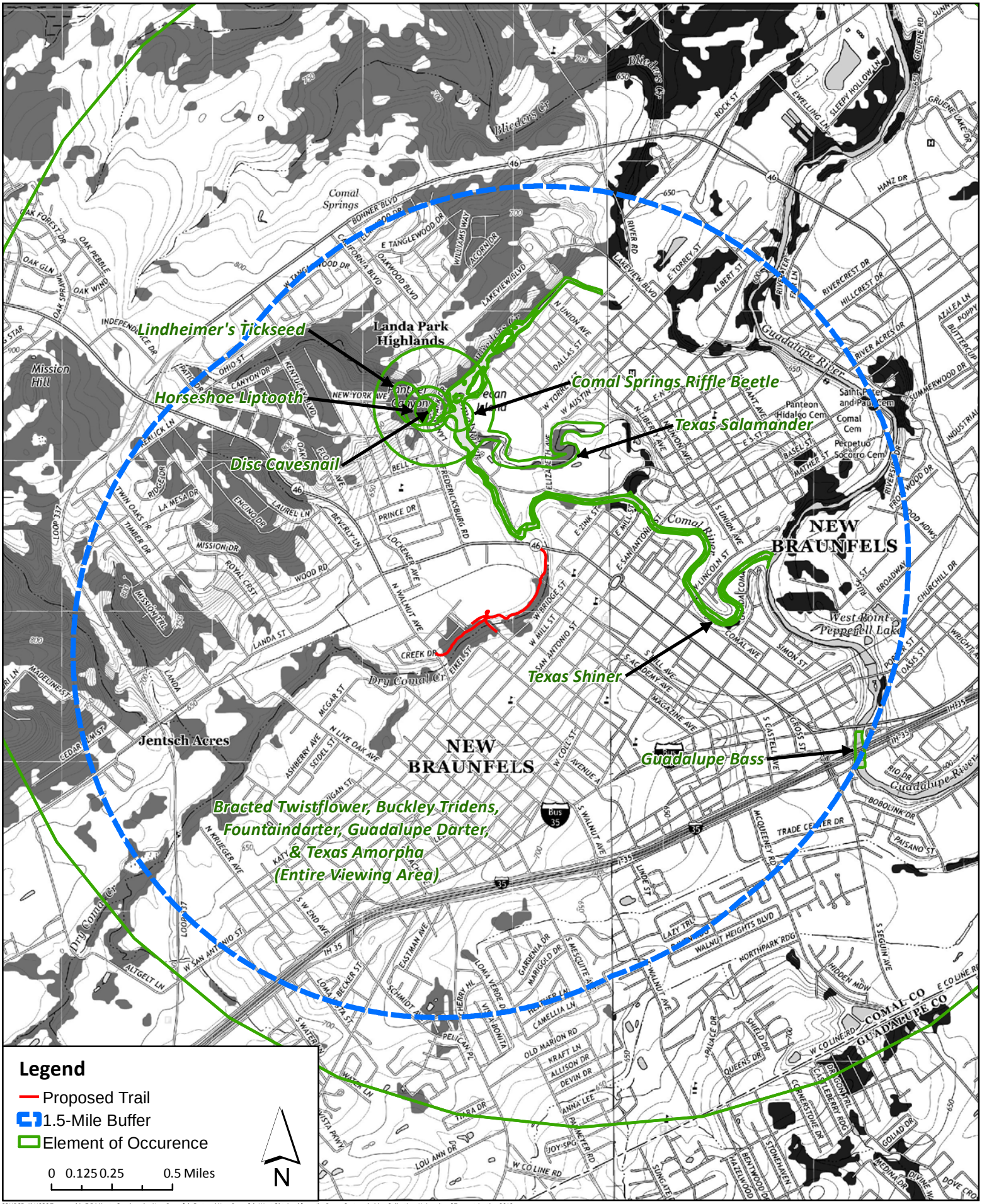
SOURCE: 1) USGS topographic 7.5 minute quadrangles New Braunfels East and New Braunfels West obtained from the Perry -Casteneda Map Collection, University of Texas at Austin - 2013
2) National Wetland Inventory (NWI) data obtained from the United States Fish & Wildlife Service (USFWS) - 2018

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NATIONAL WETLANDS INVENTORY MAP

DRY COMAL CREEK HIKE AND BIKE TRAIL
New Braunfels, Comal County, Texas

FIGURE 3



SOURCE: 1) USGS Topographic 7.5 Minute Quadrangles New Braunfels East and New Braunfels West Obtained from the Perry -Casteneda Map Collection, University of Texas at Austin - 2013
2) Texas Parks & Wildlife Department (TPWD) National Diversity Database (NDD), New Braunfels West quadrangle received on 7/26/2018

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TPWD NDD MAP

DRY COMAL CREEK HIKE AND BIKE TRAIL
New Braunfels, Comal County, Texas

FIGURE 4

APPENDIX A

PHOTOGRAPHS



Photo 1: Typical view of Review Area.

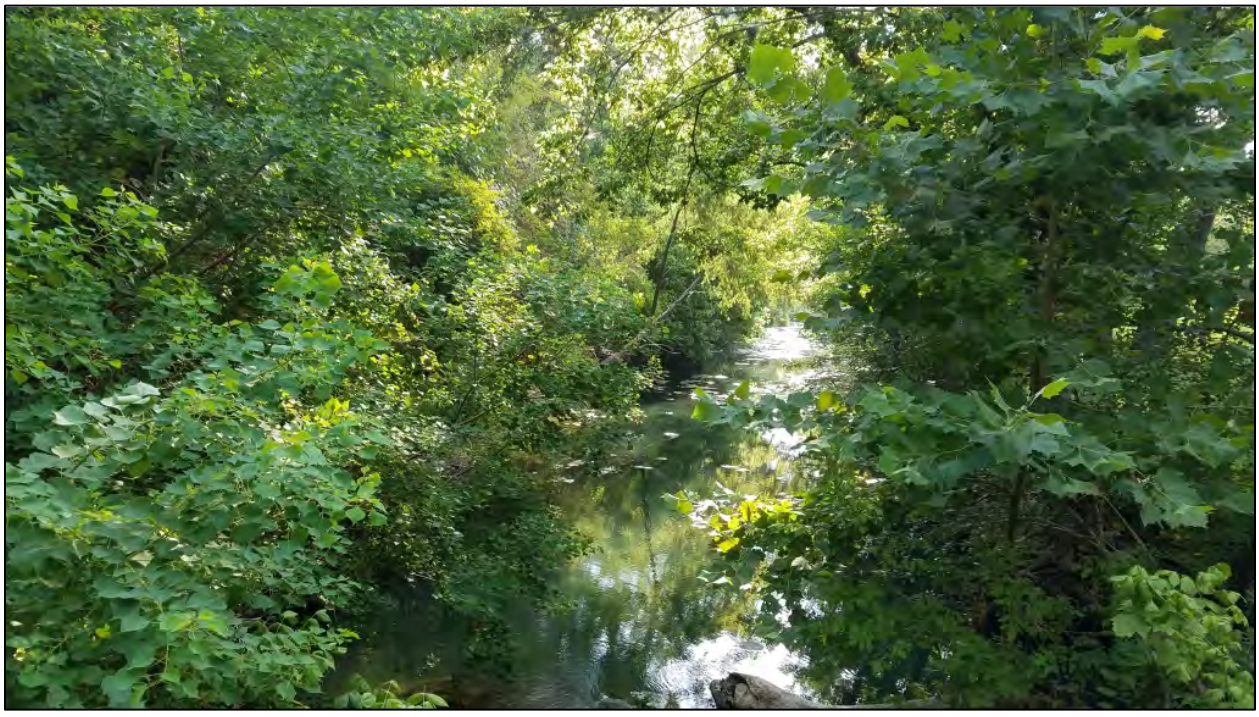


Photo 2: View of the south adjacent Dry Comal Creek.



Photo 3: View of typical vegetation along trail.

APPENDIX B

HISTORICAL AERIAL PHOTOGRAPHS

Historical Aerial Photographs

NEW: *GeoLens by Geosearch*

Target Property:

Dry Comal Hike and Bike Trail

New Braunfels, Comal, Texas 78130

Prepared For:

Raba Kistner Environmental-San Antonio

Order #: 111976
Job #: 248572
Project #: ASF18-097-00
Date: 7/26/2018

Target Property Summary

Dry Comal Hike and Bike Trail

New Braunfels, Comal, Texas 78130

USGS Quadrangle: ***NEW BRAUNFELS WEST***
Target Property Geometry: ***Corridor***

Target Property Longitude(s)/Latitude(s):

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Aerial Research Summary

Date	Source	Scale	Frame
2016	USDA	1" = 500'	N/A
2014	USDA	1" = 500'	N/A
2012	USDA	1" = 500'	N/A
2010	USDA	1" = 500'	N/A
2008	USDA	1" = 500'	N/A
2005	USDA	1" = 500'	N/A
2004	USDA	1" = 500'	N/A
01/14/1995	USGS	1" = 500'	N/A
04/28/1987	TXDOT	1" = 500'	29
09/23/1976	TXDOT	1" = 500'	250
11/13/1969	ASCS	1" = 1000'	PI-5
02/01/1958	ASCS	1" = 500'	2-163
12/12/1952	AMS	1" = 500'	790
11/20/1938	ASCS	1" = 500'	9-9

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Dry Comal Hike and Bike Trail
USDA
2016

GeoSearch

JOB #: 248572 - 07/26/2018



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Dry Comal Hike and Bike Trail
USDA
2014

GeoSearch

JOB #: 248572 - 07/26/2018



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Dry Comal Hike and Bike Trail
USDA
2012

GeoSearch

JOB #: 248572 - 07/26/2018



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Dry Comal Hike and Bike Trail
USDA
2010

GeoSearch

JOB #: 248572 - 07/26/2018



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Dry Comal Hike and Bike Trail
USDA
2008

GeoSearch

JOB #: 248572 - 07/26/2018



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Dry Comal Hike and Bike Trail
USDA
2005

GeoSearch

JOB #: 248572 - 07/26/2018

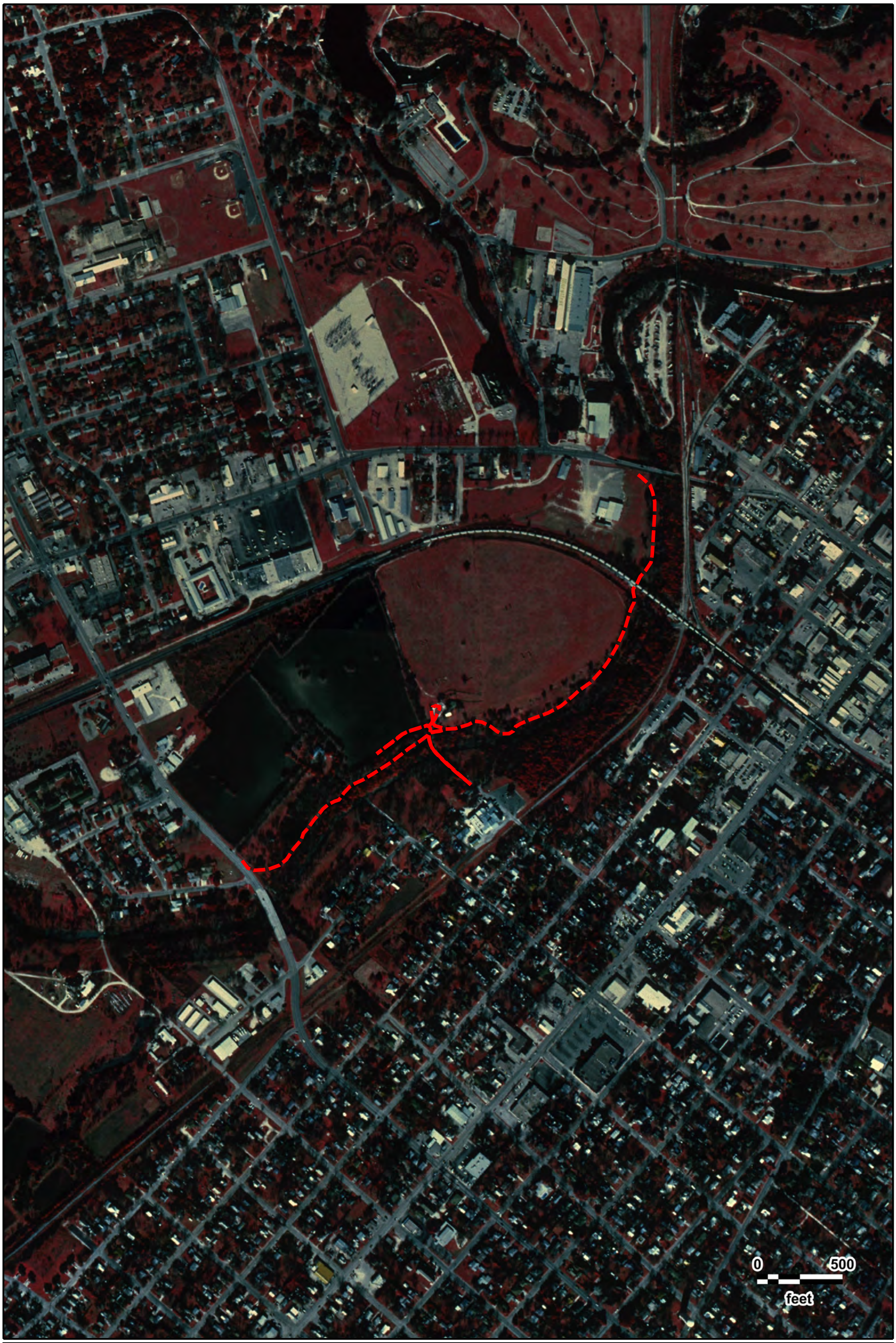


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Dry Comal Hike and Bike Trail
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2004

GeoSearch

JOB #: 248572 - 07/26/2018

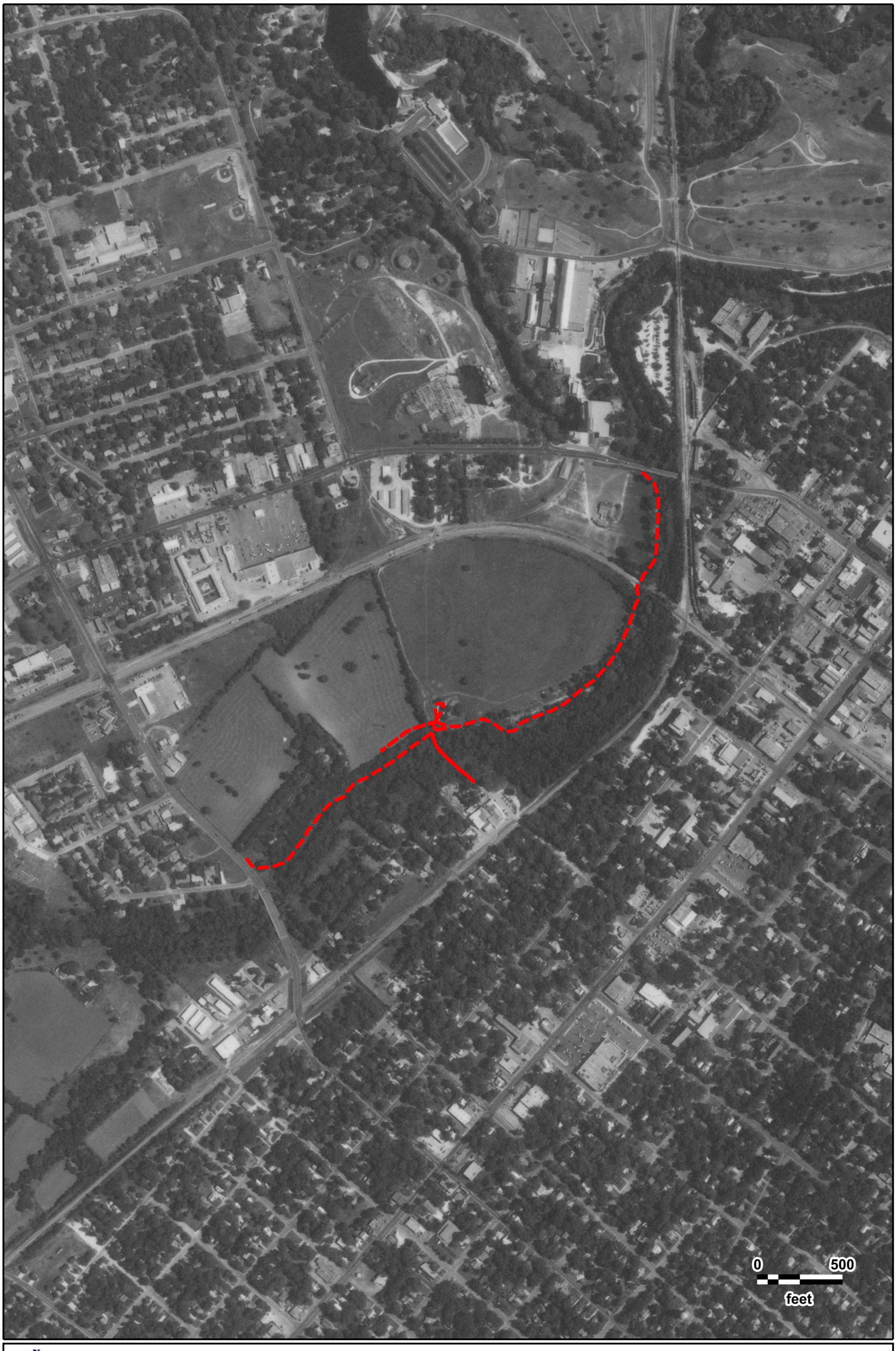


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GeoSearch

JOB #: 248572 - 07/26/2018



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TXDOT
04/28/1987

GeoSearch

JOB #: 248572 - 07/26/2018



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Dry Comal Hike and Bike Trail
TXDOT
09/23/1976

GeoSearch

JOB #: 248572 - 07/26/2018



Dry Comal Hike and Bike Trail
ASCS
11/13/1969

GeoSearch

JOB #: 248572 - 07/26/2018



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Dry Comal Hike and Bike Trail
ASCS
02/01/1958

GeoSearch

JOB #: 248572 - 07/26/2018



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Dry Comal Hike and Bike Trail
AMS
12/12/1952

GeoSearch

JOB #: 248572 - 07/26/2018



N
W E
S

Dry Comal Hike and Bike Trail
ASCS
11/20/1938

GeoSearch

JOB #: 248572 - 07/26/2018

APPENDIX C

ANNOTATED LIST OF RARE SPECIES FOR COMAL COUNTY (TPWD)

Last Revision: 12/30/2016 10:31:00 AM

COMAL COUNTY

AMPHIBIANS

		Federal Status	State Status
Cascade Caverns salamander	*Eurycea latitans complex*		T

endemic; subaquatic; springs and caves in Medina River, Guadalupe River, and Cibolo Creek watersheds within Edwards Aquifer area

Comal blind salamander	*Eurycea tridentifera*		T

endemic; semi-troglobitic; found in springs and waters of caves

Comal Springs salamander	*Eurycea sp 8*		

endemic; Comal Springs

Edwards Plateau spring salamanders	*Eurycea sp 7*		

endemic; springs and waters of some caves of this region

BIRDS

		Federal Status	State Status
American Peregrine Falcon	*Falco peregrinus anatum*	DL	T

year-round resident and local breeder in west Texas, nests in tall cliff eyries; also, migrant across state from more northern breeding areas in US and Canada, winters along coast and farther south; occupies wide range of habitats during migration, including urban, concentrations along coast and barrier islands; low-altitude migrant, stopovers at leading landscape edges such as lake shores, coastlines, and barrier islands.

Arctic Peregrine Falcon	*Falco peregrinus tundrius*	DL	

migrant throughout state from subspecies' far northern breeding range, winters along coast and farther south; occupies wide range of habitats during migration, including urban, concentrations along coast and barrier islands; low-altitude migrant, stopovers at leading landscape edges such as lake shores, coastlines, and barrier islands.

Bald Eagle	*Haliaeetus leucocephalus*	DL	T

found primarily near rivers and large lakes; nests in tall trees or on cliffs near water; communally roosts, especially in winter; hunts live prey, scavenges, and pirates food from other birds

Black-capped Vireo	*Vireo atricapilla*	LE	E

oak-juniper woodlands with distinctive patchy, two-layered aspect; shrub and tree layer with open, grassy spaces; requires foliage reaching to ground level for nesting cover; return to same territory, or one nearby, year after year; deciduous and broad-leaved shrubs and trees provide insects for feeding; species composition less important than presence of adequate broad-leaved shrubs, foliage to ground level, and required structure; nesting season March-late summer

Golden-cheeked Warbler	*Setophaga chrysoparia*	LE	E

juniper-oak woodlands; dependent on Ashe juniper (also known as cedar) for long fine bark strips, only available from mature trees, used in nest construction; nests are placed in various trees other than Ashe juniper; only a few mature junipers or nearby cedar brakes can provide the necessary nest material; forage for insects in broad-leaved trees and shrubs; nesting late March-early summer

COMAL COUNTY

BIRDS

		Federal Status	State Status
Mountain Plover	*Charadrius montanus*		

breeding: nests on high plains or shortgrass prairie, on ground in shallow depression; nonbreeding: shortgrass plains and bare, dirt (plowed) fields; primarily insectivorous

Peregrine Falcon	*Falco peregrinus*	DL	T

both subspecies migrate across the state from more northern breeding areas in US and Canada to winter along coast and farther south; subspecies (F. p. anatum) is also a resident breeder in west Texas; the two subspecies' listing statuses differ, F.p. tundrius is no longer listed in Texas; but because the subspecies are not easily distinguishable at a distance, reference is generally made only to the species level; see subspecies for habitat.

Sprague's Pipit *Anthus spragueii*

only in Texas during migration and winter, mid September to early April; short to medium distance, diurnal migrant; strongly tied to native upland prairie, can be locally common in coastal grasslands, uncommon to rare further west; sensitive to patch size and avoids edges.

Western Burrowing Owl *Athene cunicularia hypugaea*

open grasslands, especially prairie, plains, and savanna, sometimes in open areas such as vacant lots near human habitation or airports; nests and roosts in abandoned burrows

Whooping Crane	*Grus americana*	LE	E

potential migrant via plains throughout most of state to coast; winters in coastal marshes of Aransas, Calhoun, and Refugio counties

Zone-tailed Hawk	*Buteo albonotatus*		T

arid open country, including open deciduous or pine-oak woodland, mesa or mountain county, often near watercourses, and wooded canyons and tree-lined rivers along middle-slopes of desert mountains; nests in various habitats and sites, ranging from small trees in lower desert, giant cottonwoods in riparian areas, to mature conifers in high mountain regions

CRUSTACEANS

		Federal Status	State Status
Ezell's cave amphipod	*Stygobromus flagellatus*		

known only from artesian wells

Long-legged cave amphipod *Stygobromus longipes*

subaquatic crustacean; subterranean obligate; found in subterranean streams

Peck's cave amphipod	*Stygobromus pecki*	LE	E

small, aquatic crustacean; lives underground in the Edwards Aquifer; collected at Comal Springs and Hueco Springs

COMAL COUNTY

FISHES

		Federal Status	State Status
Fountain darter	*Etheostoma fonticola*	LE	E

known only from the San Marcos and Comal rivers; springs and spring-fed streams in dense beds of aquatic plants growing close to bottom, which is normally mucky; feeding mostly diurnal; spawns year-round with August and late winter to early spring peaks

Guadalupe bass *Micropterus treculii*

endemic to perennial streams of the Edward's Plateau region; introduced in Nueces River system

INSECTS

		Federal Status	State Status
A mayfly	*Pseudocentroptiloides morihari*		

mayflies distinguished by aquatic larval stage; adult stage generally found in shoreline vegetation

Comal Springs diving beetle *Comaldessus stygius*

known only from the outflows at Comal Springs; aquatic; diving beetles generally inhabit the water column

Comal Springs dryopid beetle	*Stygoparnus comalensis*	LE	E

dryopids usually cling to objects in a stream; dryopids are sometimes found crawling on stream bottoms or along shores; adults may leave the stream and fly about, especially at night; most dryopid larvae are vermiform and live in soil or decaying wood

Comal Springs riffle beetle	*Heterelmis comalensis*	LE	E

Comal and San Marcos Springs

Edwards Aquifer diving beetle *Haideoporus texanus*

habitat poorly known; known from an artesian well in Hays County

MAMMALS

		Federal Status	State Status
Black bear	*Ursus americanus*		T

bottomland hardwoods and large tracts of inaccessible forested areas

Cave myotis bat *Myotis velifer*

colonial and cave-dwelling; also roosts in rock crevices, old buildings, carports, under bridges, and even in abandoned Cliff Swallow (Hirundo pyrrhonota) nests; roosts in clusters of up to thousands of individuals; hibernates in limestone caves of Edwards Plateau and gypsum cave of Panhandle during winter; opportunistic insectivore

Jaguarundi	*Herpailurus yaguarondi*	LE	E

thick brushlands, near water favored; 60 to 75 day gestation, young born sometimes twice per year in March and August, elsewhere the beginning of the rainy season and end of the dry season

Plains spotted skunk *Spilogale putorius interrupta*

catholic; open fields, prairies, croplands, fence rows, farmyards, forest edges, and woodlands; prefers wooded, brushy areas and tallgrass prairie

COMAL COUNTY

MAMMALS

		Federal Status	State Status
Red wolf	*Canis rufus*	LE	E

extirpated; formerly known throughout eastern half of Texas in brushy and forested areas, as well as coastal prairies

MOLLUSKS

		Federal Status	State Status
False spike mussel	*Quadrula mitchelli*		T

possibly extirpated in Texas; probably medium to large rivers; substrates varying from mud through mixtures of sand, gravel and cobble; one study indicated water lilies were present at the site; Rio Grande, Brazos, Colorado, and Guadalupe (historic) river basins

Golden orb	*Quadrula aurea*	C	T

sand and gravel in some locations and mud at others; found in lentic and lotic; Guadalupe, San Antonio, Lower San Marcos, and Nueces River basins

Horseshoe liptooth snail *Daedalochila hippocrepis*

terrestrial snail known only from the steep, wooded hillsides of Landa Park in New Braunfels

Texas fatmucket	*Lampsilis bracteata*	C	T

streams and rivers on sand, mud, and gravel substrates; intolerant of impoundment; broken bedrock and course gravel or sand in moderately flowing water; Colorado and Guadalupe River basins

Texas pimpleback	*Quadrula petrina*	C	T

mud, gravel and sand substrates, generally in areas with slow flow rates; Colorado and Guadalupe river basins

REPTILES

		Federal Status	State Status
Cagle's map turtle	*Graptemys caglei*		T

endemic; Guadalupe River System; shallow water with swift to moderate flow and gravel or cobble bottom, connected by deeper pools with a slower flow rate and a silt or mud bottom; gravel bar riffles and transition areas between riffles and pools especially important in providing insect prey items; nests on gently sloping sand banks within ca. 30 feet of water's edge

Spot-tailed earless lizard *Holbrookia lacerata*

central and southern Texas and adjacent Mexico; moderately open prairie-brushland; fairly flat areas free of vegetation or other obstructions, including disturbed areas; eats small invertebrates; eggs laid underground

Texas garter snake *Thamnophis sirtalis annectens*

wet or moist microhabitats are conducive to the species occurrence, but is not necessarily restricted to them; hibernates underground or in or under surface cover; breeds March-August

Texas horned lizard	*Phrynosoma cornutum*		T

COMAL COUNTY

REPTILES

Federal Status State Status

open, arid and semi-arid regions with sparse vegetation, including grass, cactus, scattered brush or scrubby trees; soil may vary in texture from sandy to rocky; burrows into soil, enters rodent burrows, or hides under rock when inactive; breeds March-September

PLANTS

Federal Status State Status

Bracted twistflower *Streptanthus bracteatus* C

Texas endemic; shallow, well-drained gravelly clays and clay loams over limestone in oak juniper woodlands and associated openings, on steep to moderate slopes and in canyon bottoms; several known soils include Tarrant, Brackett, or Speck over Edwards, Glen Rose, and Walnut geologic formations; populations fluctuate widely from year to year, depending on winter rainfall; flowering mid April-late May, fruit matures and foliage withers by early summer

Buckley tridens *Tridens buckleyanus*

GLOBAL RANK: G3 ; Occurs in juniper-oak woodlands on rocky limestone slopes; Perennial; Flowering/Fruiting April-Nov

Comal snakewood *Colubrina stricta*

in El Paso County, found in a patch of thorny shrubs in colluvial deposits and sandy soils at the base of an igneous rock outcrop; the historic Comal County record does not describe the habitat; in Mexico ,found in shrublands on calcareous, gravelly, clay soils with woody associates; flowering late spring or early summer

Darkstem noseburn *Tragia nigricans*

GLOBAL RANK: G3; Occurs in oak-juniper woodlands on mesic limestone slopes and canyon bottoms; Perennial; Flowering/Fruiting April-Oct

Glass Mountains coral-root *Hexalectris nitida*

GLOBAL RANK: G3; Apparently rare in mixed woodlands in canyons in the mountains of the Brewster County, but encountered with regularity, albeit in small numbers, under Juniperus ashei in woodlands over limestone on the Edwards Plateau, Callahan Divide and Lampasas Cutplain; Perennial; Flowering June-Sept; Fruiting July-Sept

Gravelbar brickellbush *Brickellia dentata*

GLOBAL RANK: G3; Essentially restricted to frequently-scoured gravelly alluvial beds in creek and river bottoms; Perennial; Flowering June-Nov; Fruiting June-Oct

Heller's marbleseed *Onosmodium helleri*

GLOBAL RANK: G3; Occurs in loamy calcareous soils in oak-juniper woodlands on rocky limestone slopes, often in more mesic portions of canyons; Perennial; Flowering March-May

Hill Country wild-mercury *Argythamnia aphoroides*

Texas endemic; mostly in bluestem-grama grasslands associated with plateau live oak woodlands on shallow to moderately deep clays and clay loams over limestone on rolling uplands, also in partial shade of oak-juniper woodlands in gravelly soils on rocky limestone slopes; Perennial; Flowering April-May with fruit persisting until midsummer

COMAL COUNTY

PLANTS

Federal Status State Status

Narrowleaf brickellbush *Brickellia eupatorioides var. gracillima*

GLOBAL RANK: G5T3; Moist to dry gravelly alluvial soils along riverbanks but also on limestone slopes; Perennial; Flowering/Fruiting April-Nov

Net-leaf bundleflower *Desmanthus reticulatus*

GLOBAL RANK: G3; Mostly on clay prairies of the coastal plain of central and south Texas; Perennial; Flowering April-July; Fruiting April-Oct

Osage Plains false foxglove *Agalinis densiflora*

GLOBAL RANK: G3; Most records are from grasslands on shallow, gravelly, well drained, calcareous soils; Prairies, dry limestone soils; Annual; Flowering Aug-Oct

Plateau loosestrife *Lythrum ovalifolium*

GLOBAL RANK: G4; Banks and gravelly beds of perennial (or strong intermittent) streams on the Edwards Plateau, Llano Uplift and Lampasas Cutplain; Perennial; Flowering/Fruiting April-Nov

Plateau milkvine *Matelea edwardsensis*

GLOBAL RANK: G3 ; Occurs in various types of juniper-oak and oak-juniper woodlands; Perennial; Flowering March-Oct; Fruiting May-June

Scarlet leather-flower *Clematis texensis*

GLOBAL RANK: G3; Usually in oak-juniper woodlands in mesic rocky limestone canyons or along perennial streams; Perennial; Flowering March-July; Fruiting May-July

Sycamore-leaf snowbell *Styrax platanifolius ssp. platanifolius*

GLOBAL RANK: G3T3; Rare throughout range, usually in oak-juniper woodlands on steep rocky banks and ledges along intermittent or perennial streams, rarely far from some reliable source of moisture; Perennial; Flowering April-May; Fruiting May-Aug

Texas almond *Prunus minutiflora*

GLOBAL RANK: G3; Wide-ranging but scarce, in a variety of grassland and shrubland situations, mostly on calcareous soils underlain by limestone but occasionally in sandier neutral soils underlain by granite; Perennial; Flowering Feb-May & Oct; Fruiting Feb-Sept

Texas amorpha *Amorpha roemeriana*

GLOBAL RANK: G3; Juniper-oak woodlands or shrublands on rocky limestone slopes, sometimes on dry shelves above creeks; Perennial; Flowering May-June; Fruiting June-Oct

Texas barberry *Berberis swaseyi*

GLOBAL RANK: G3; Shallow calcareous stony clay of upland grasslands/shrublands over limestone as well as in loamier soils in openly wooded canyons and on creek terraces; Perennial; Flowering/Fruiting March-June

Texas fescue *Festuca versuta*

GLOBAL RANK: G3; Occurs in mesic woodlands on limestone-derived soils on stream terraces and canyon slopes; Perennial; Flowering/Fruiting April-June

COMAL COUNTY

PLANTS

Federal Status State Status

Texas seymeria *Seymeria texana*

GLOBAL RANK: G3; Found primarily in grassy openings in juniper-oak woodlands on dry rocky slopes but sometimes on rock outcrops in shaded canyons; Annual; Flowering May-Nov; Fruiting July-Nov

Tree dodder *Cuscuta exaltata*

GLOBAL RANK: G3; Parasitic on various Quercus, Juglans, Rhus, Vitis, Ulmus, and Diospyros species as well as Acacia berlandieri and other woody plants; Annual; Flowering May-Oct; Fruiting July-Oct

APPENDIX D

TEXAS NATURAL DIVERSITY DATABASE
ELEMENT OF OCCURRENCES

Element Occurrence Record

Scientific Name: Amorpha roemeriana **Occurrence #:** 18 **Eo Id:** 1648

Common Name: Texas amorpha **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G3 **State Rank:** S3 **Federal Status:**

Location Information:

Directions

NEW BRAUNFELS

Survey Information:

First Observation: 1850 **Survey Date:** **Last Observation:** 1850-05

Eo Type: **Eo Rank:** **Eo Rank Date:**

Observed Area:

Comments:

General Description:

Comments:

Protection Comments:

Management Comments:

Data:

EO Data:

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

PALMER, ERNEST J. 1931. CONSPECTUS OF THE GENUS AMORPHA. JOURNAL OF THE ARNOLD ARBORETUM 12:157-197.

Specimen:

Element Occurrence Record

Scientific Name: Amorpha roemeriana **Occurrence #:** 61 **Eo Id:** 3841

Common Name: Texas amorpha **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G3 **State Rank:** S3 **Federal Status:**

Location Information:

Directions

SOUTHEAST EDGE OF GUADALUPE RIVER ROAD, 25 FEET NORTHEAST OF EAST END OF BRIDGE AT "THIRD CROSSING," 4.7 ROAD MILES SOUTH OF JUNCTION WITH RM 2673 AT SATTLER

Survey Information:

First Observation: **Survey Date:** 1993-07-21 **Last Observation:** 1993-07-21

Eo Type: **Eo Rank:** **Eo Rank Date:**

Observed Area:

Comments:

General Description: DIVERSE JUNIPER-OAK WOODLAND AT FOOT OF STEEP LIMESTONE SLOPE

Comments: ADDITIONAL PLANTS MIGHT BE FOUND IF COUNTY WOULD PERMIT PARKING ON ROAD SHOULDER SO THAT BIOLOGISTS COULD WALK ALONG ROAD AND LOOK AT PUBLIC PROPERTY

Protection Comments:

Management Comments:

Data:

EO Data: ONE SHRUB 4-5 FEET TALL, IN FRUIT ON 21 JULY 1993

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Specimen:

UNIVERSITY OF TEXAS AT AUSTIN HERBARIUM. 1993. W.R. CARR #12939, SPECIMEN # NONE TEX-LL. 21 JULY 1993.

Element Occurrence Record

Scientific Name: Amorpha roemeriana **Occurrence #:** 66 **Eo Id:** 8536

Common Name: Texas amorpha **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G3 **State Rank:** S3 **Federal Status:**

Location Information:

Directions

Ca. 0.5 air miles north of FM 1863, ca. 2.8 miles west of its junction with FM 3009 (road to Natural Bridge Caverns).

Survey Information:

First Observation: 2000-07-19 **Survey Date:** 2000-07-19 **Last Observation:** 2000-07-19

Eo Type: **Eo Rank:** E **Eo Rank Date:** 2000-07-19

Observed Area:

Comments:

General Description: Stems located 4 feet above the bed of Dry Devils Creek on the lowest part of the west-facing bedrock slope. The slope is openly wooded with Texas oak and Ashe juniper of moderate size. Other woody plants in the immediate vicinity include Texas redbud and wafer ash.

Comments:

Protection Comments:

Management Comments:

Data:

EO Data: 19 July 2000 - Two stems within 8 inches of each other which may represent a single plant.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Carr, W. R. 2000. Notes on a Very Brief Botanical Survey of the Zaccaria Property, Bexar and Comal Counties, Texas, 19 July 2000.

Specimen:

Element Occurrence Record

Scientific Name: Argythamnia aphoroides **Occurrence #:** 14 **Eo Id:** 1107

Common Name: Hill Country wild-mercury **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G2G3 **State Rank:** S2S3 **Federal Status:**

Location Information:

Directions

SAN MARCOS AND VICINITY

Survey Information:

First Observation: **Survey Date:** **Last Observation:** 1898-SUMM

Eo Type: **Eo Rank:** **Eo Rank Date:**

Observed Area:

Comments:

General Description:

Comments:

Protection Comments:

Management Comments:

Data:

EO Data:

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

RARE PLANT STUDY CENTER, UNIVERSITY OF TEXAS AT AUSTIN. 1978. REPORT ON ARGYTHAMNIA APHOROIDES.

Specimen:

New York Botanical Garden, Bronx. 1898. S.W. Stanfield (s.n.), Specimen # ? NY. Summer 1898.

Element Occurrence Record

Scientific Name: Argythamnia aphoroides **Occurrence #:** 17 **Eo Id:** 7809

Common Name: Hill Country wild-mercury **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G2G3 **State Rank:** S2S3 **Federal Status:**

Location Information:

Directions

"STARTZVILLE, SCENIC HEIGHTS II SUBDIVISION, EASTERNMOST INTERSECTION OF LAKE VIEW AND LEDGE VIEW; NORTH SIDE OF LAKE VIEW WEST OF INTERSECTION"

Survey Information:

First Observation: **Survey Date:** **Last Observation:** 1984

Eo Type: **Eo Rank:** **Eo Rank Date:**

Observed Area:

Comments:

General Description: "JUNIPER AND OAK WOODLAND ON LIMESTONE"

Comments: TENTATIVE DETERMINATION ARGYTHAMNIA MERCURIALINA VAR PILOSISSIMA BY M. JOHNSTON; ANNOTATED TO ARGYTHAMNIA APHOROIDES BY S. GINZBARG 1991

Protection Comments:

Management Comments:

Data:

EO Data:

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Specimen:

UNIVERSITY OF TEXAS AT AUSTIN HERBARIUM. 1984. LOUISE AND JESS HAMILTON (S.N.), SPECIMEN # NONE TEX-LL.

Element Occurrence Record

Scientific Name: Bat Roost
Occurrence #: 48 **Eo Id:** 672
Common Name:
Track Status: Track all extant and selected historical EOs
Identification Confirmed: Y - Yes
TX Protection Status:
Global Rank: GNR **State Rank:** SNR
Federal Status:

Location Information:

Directions

FROM BRACKEN TAKE MARBACH LANE (AKA: BAT CAVE ROAD, FM 3009) NORTHWEST ABOUT 4.1 MILES TO LOCKED GATE AT SECOND 45 DEGREE TURN IN ROAD; TAKE DIRT ROAD ABOUT 2.5 MILES TO CAVE

Survey Information:

First Observation: 1940 **Survey Date:** 1985-07 **Last Observation:** 1985-JULY
Eo Type: **Eo Rank:** A **Eo Rank Date:**
Observed Area:

Comments:

General Description: A LARGE LIMESTONE CAVERN AT BOTTOM OF A 20 METER DEEP SINKHOLE; VEGETATION IS DISTURBED OAK-JUNIPER

Comments: WELL KNOWN, SPECTACULAR SITE, OWNER SENSITIVE AND WILLING TO NEGOTIATE PERMANENT PROTECTION; MINED FOR GUANO IN WINTER

Protection Comments: PREVENT TRESPASS, VANDALISM; BUFFER FROM URBAN EXPANSION

Management Comments: NO ENTRY DURING JUNE-JULY; NO MODIFICATION TO CAVE

Data:

EO Data: THE LARGEST FREE-TAILED BAT (TADARIDA BRASILIENSIS MEXICANA) COLONY KNOWN; NUMBERS 20 TO 40 MILLION BATS IN SUMMER; LONG- KNOWN AND WELL-STUDIED COLONY

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

WAHL, REX. 1985. FIELD SURVEY OF FRIO AND BRACKEN BAT CAVES

TUTTLE, MERLIN, DR. N.D. BAT CONSERVATION INTERNATIONAL, INC. C/O MILWAUKEE PUBLIC MUSEUM, MILWAUKEE, WI 53233

MCCRACKEN, GARY F., PH. D. DEPARTMENT OF ZOOLOGY UNIV. OF TENNESSEE KNOXVILLE, TN 37996-0810 PH-615/974-2371

EADS, R. B., ET AL. 1957. OBSERVATIONS CONCERNING THE MEXICAN FREETAILED BAT, TADARIDA MEXICANA (BRASILIENSIS) IN TEXAS. TEX. J. SCI. 9:227-242.

Davis, R. B, C. F. Herried II, and H. L. Short. 1962. Mexican free-tailed bats in Texas. Ecological Monographs 32(4):311-346.

Specimen:

Element Occurrence Record

Scientific Name: Brickellia eupatorioides var. gracillima **Occurrence #:** 6 **Eo Id:** 11067

Common Name: narrowleaf brickellbush **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G5T3 **State Rank:** S3 **Federal Status:**

Location Information:

Directions

On roadway along Guadalupe River, NW of New Braunfels.

Survey Information:

First Observation: **Survey Date:** **Last Observation:** 1948-09-28

Eo Type: **Eo Rank:** H **Eo Rank Date:** 2006-12-07

Observed Area:

Comments:

General Description: Shallow limestone soil [presumably along or near river bank].

Comments: Complete label citation: Infrequent on shallow limestone soil, on roadway along Guadalupe River, NW of New Braunfels, 28 Sep. 1948, J.C. Johnson 440 (TEX-LL).

Protection Comments:

Management Comments:

Data:

EO Data: 1948: Described by collector as infrequent.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Johnson, J.C. (440). 1948. Specimen No. none. TEX-LL.

Specimen:

Johnson, J.C. (440). 1948. Specimen No. none. TEX-LL. (S48JOHTXTXUS)

Element Occurrence Record

Scientific Name: Charadrius montanus **Occurrence #:** 4 **Eo Id:** 7568

Common Name: Mountain Plover **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G3 **State Rank:** S2 **Federal Status:**

Location Information:

Directions

FROM GERONIMO, GO SOUTH ON STATE ROUTE 123 FOR 2.5 MILES, EXIT WEST ON STATE ROUTE 20, DRIVE 1.25 MILES WEST, 0.05 MILE NORTH OF ROUTE 20; CA. 2 AIR MILES SOUTHWEST OF GERONIMO

Survey Information:

First Observation: 1978 **Survey Date:** **Last Observation:** 1993-03-31

Eo Type: **Eo Rank:** **Eo Rank Date:**

Observed Area:

Comments:

General Description:

Comments: MOUNTAIN PLOVER FIRST OBSERVED IN THE AREA SINCE 1978 BY FRED COLLINS

Protection Comments:

Management Comments:

Data:

EO Data: MOUNTAIN PLOVER FIRST OBSERVED IN 1978

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

COLLINS, GEORGE "FRED" II. 1993. LETTER TO PEGGY HORNER DATED 31 MARCH 1993.

Specimen:

Element Occurrence Record

Scientific Name: Charadrius montanus **Occurrence #:** 5 **Eo Id:** 844

Common Name: Mountain Plover **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G3 **State Rank:** S2 **Federal Status:**

Location Information:

Directions

CA. 3.5 AIR MILES SOUTHEAST OF CLEAR SPRINGS

Survey Information:

First Observation: 1978 **Survey Date:** **Last Observation:** 1993-03-31

Eo Type: **Eo Rank:** **Eo Rank Date:**

Observed Area:

Comments:

General Description:

Comments: MOUNTAIN PLOVER FIRST OBSERVED IN THE AREA SINCE 1978 BY FRED COLLINS

Protection Comments:

Management Comments:

Data:

EO Data: MOUNTAIN PLOVER FIRST OBSERVED IN 1978

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

COLLINS, GEORGE "FRED" II. 1993. LETTER TO PEGGY HORNER DATED 31 MARCH 1993.

Specimen:

Element Occurrence Record

Scientific Name: Charadrius montanus **Occurrence #:** 6 **Eo Id:** 1803

Common Name: Mountain Plover **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G3 **State Rank:** S2 **Federal Status:**

Location Information:

Directions

CA. 1.75 AIR MILES NORTHEAST OF CLEAR SPRINGS

Survey Information:

First Observation: 1978 **Survey Date:** **Last Observation:** 1993-03-31

Eo Type: **Eo Rank:** **Eo Rank Date:**

Observed Area:

Comments:

General Description:

Comments: MOUNTAIN PLOVER FIRST OBSERVED IN THE AREA SINCE 1978 BY FRED COLLINS

Protection Comments:

Management Comments:

Data:

EO Data: MOUNTAIN PLOVER FIRST OBSERVED IN 1978

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

COLLINS, GEORGE "FRED" II. 1993. LETTER TO PEGGY HORNER DATED 31 MARCH 1993.

Specimen:

Element Occurrence Record

Scientific Name: Charadrius montanus **Occurrence #:** 7 **Eo Id:** 5771

Common Name: Mountain Plover **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G3 **State Rank:** S2 **Federal Status:**

Location Information:

Directions

CA. 1 AIR MILE NORTHWEST OF INTERSECTION OF STATE ROUTE 20 AND STATE ROUTE 123

Survey Information:

First Observation: 1978 **Survey Date:** **Last Observation:** 1993-03-31

Eo Type: **Eo Rank:** **Eo Rank Date:**

Observed Area:

Comments:

General Description:

Comments: MOUNTAIN PLOVER FIRST OBSERVED IN THE AREA SINCE 1978 BY FRED COLLINS

Protection Comments:

Management Comments:

Data:

EO Data: MOUNTAIN PLOVER FIRST OBSERVED IN 1978

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

COLLINS, GEORGE "FRED" II. 1993. LETTER TO PEGGY HORNER DATED 31 MARCH 1993.

Specimen:

Element Occurrence Record

Scientific Name: Cuscuta exaltata **Occurrence #:** 2 **Eo Id:** 8524

Common Name: tree dodder **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G3 **State Rank:** S3 **Federal Status:**

Location Information:

Directions

Southeast corner of River Road and Edwards Street, i.e. east side of River Road 0.4 miles north of State Highway 46.

Survey Information:

First Observation: 1997-10-26 **Survey Date:** 1997-10-26 **Last Observation:** 1997-10-26

Eo Type: **Eo Rank:** E **Eo Rank Date:** 1997-10-26

Observed Area:

Comments:

General Description: On Ulmus crassifolia and Diospyros texana in woodland on limestone upland. Vacant lot.

Comments:

Protection Comments:

Management Comments:

Data:

EO Data: 26 October 1997 - Locally common.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

CARR, W.R. & M. ENQUIST (17157). 1997. SPECIMEN # NONE TEX-LL.

Specimen:

CARR, W.R. & M. ENQUIST (17157). 1997. SPECIMEN # NONE TEX-LL. (S97CAR01TXUS)

University of Texas Herbarium. 1997. W. R. Carr (17157) with M. Enquist. Specimen # none. 26 October 1997. TEX-LL.

Element Occurrence Record

Scientific Name: Daedalochila hippocrepis **Occurrence #:** 1 **Eo Id:** 8535

Common Name: Horseshoe Liptooth **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G1 **State Rank:** S1 **Federal Status:**

Location Information:

Directions

Spring run 1 and 3 at Landa Park, New Braunfels.

Survey Information:

First Observation: 1997-10-28 **Survey Date:** 2002-04-18 **Last Observation:** 2002-04-18

Eo Type: **Eo Rank:** E **Eo Rank Date:** 2002-04-18

Observed Area:

Comments:

General Description: Areas with much leaf litter and detritus.

Comments: Due to extreme rarity of this species, monitoring may require a more intensive search effort, with less focus on randomizing samples until a better habitat profile is developed.

Protection Comments:

Management Comments:

Data:

EO Data: Spring Run 1: 1997-2002 - 3 live and 22 dead. Spring Run 3: 1998-2002 - 2 live and 26 dead.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Linam, L. A. 2002. Final Report Project WER 09(72): Implementation of candidate species monitoring. Grant No. E-9. 1 November 2002.

Specimen:

Element Occurrence Record

Scientific Name: Desmodium lindheimeri **Occurrence #:** 1 **Eo Id:** 8523

Common Name: Lindheimer's tickseed **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G3G4 **State Rank:** S1 **Federal Status:**

Location Information:

Directions

Landa Park in New Braunfels. Lower slopes and along bed of intermittent creek, various spots along eastern portion of Panther Canyon Trail, just northwest of Comal Springs.

Survey Information:

First Observation: 199? **Survey Date:** 1997-10-26 **Last Observation:** 1997-10-26

Eo Type: **Eo Rank:** E **Eo Rank Date:** 1997-10-26

Observed Area:

Comments:

General Description: Mostly deciduous woodland in bottom of limestone canyon containing intermittent stream. Ashe juniper cut and removed from bottom, leaving Ulmus crassifolia dominant in canopy with Ehretia anacua, Sophora secundiflora, and croton fruticulosus common in shrub layers. It occurs on alluvium/colluvium on low shaded banks of intermittent creek and on drier, more exposed sites along wide hiking trail, and on limestone outcrops.

Comments: There are multiple specimens collected in Comal County by M. Enquist; however, they lack directions. The specimens were collected over several years (1992-1996).

Protection Comments:

Management Comments:

Data:

EO Data: 26 October 1997 - Several dozen plants noted, perhaps half with flowers and/or fruit.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Carr, W. R. 1997. Notes on a visit to some of Marshall Enquist's Desmodium lindheimeri sites in Comal County, 26 October 1997.

Specimen:

ENQUIST, M. (UNKNOWN). TEX-LL. (SNDENQTXTXUS)

Element Occurrence Record

Scientific Name: Desmodium lindheimeri
Occurrence #: 2 **Eo Id:** 8556
Common Name: Lindheimer's tickseed
Track Status: Track all extant and selected historical EOs
Identification Confirmed: Y - Yes
TX Protection Status:
Global Rank: G3G4 **State Rank:** S1
Federal Status:

Location Information:

Directions

East edge of River Road along Guadalupe River, ca. 1.5 road miles northwest of first crossing of Guadalupe River. Ca. 2.85 road miles north of junction of River Road and Hueco Spring Road.

Survey Information:

First Observation: 1997-10-26 **Survey Date:** 1997-10-26 **Last Observation:** 1997-10-26
Eo Type: **Eo Rank:** E **Eo Rank Date:** 1997-10-26
Observed Area:

Comments:

General Description: Rock rubble and stony to rocky clay on steep west-facing slope. Relatively dry exposed area on utility line clearing through juniper-oak woodland on slope of mesic canyon.

Comments: There are multiple M. Enquist specimens for D. lindheimeri in Comal County at the University of Texas Herbarium. However, the specimen labels contain no location information.

Protection Comments:

Management Comments:

Data:

EO Data: 26 October 1997 - A few dozen plants, most with flowers and fruits.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Carr, W. R. 1997. Notes on a visit to some of Marshall Enquist's Desmodium lindheimeri sites in Comal County, 26 October 1997.

Specimen:

University of Texas Herbarium. 1997. W. R. Carr (17156) with Marshall Enquist. Specimen # none. 26 October 1997. TEX-LL.

Element Occurrence Record

Scientific Name: Etheostoma fonticola **Occurrence #:** 1 **Eo Id:** 2056

Common Name: Fountain Darter **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:** E

Global Rank: G1 **State Rank:** S1 **Federal Status:** LE

Location Information:

Directions

These directions were not updated when Fishes of Texas specimen Source Features were aggregated into EOs . Original directions: COMAL SPRINGS, HEADWATERS OF COMAL RIVER, NEW BRAUNFELS, TX

Survey Information:

First Observation: 1891-01-01 **Survey Date:** 1997-05-23 **Last Observation:** 1997-05-23

Eo Type: **Eo Rank:** E **Eo Rank Date:** 1997-05-23

Observed Area:

Comments:

General Description: A SERIES OF LIMESTONE SPRINGS FORMING THE COMAL RIVER, EXTENSIVELY DEVELOPED FOR CITY WATER SUPPLY, SOME IN CITY PARK.

Comments: FISH FORMERLY HERE DESTROYED BY LOW WATER, REINTRODUCED IN 1975. FOUND IN QUIET, CLEAR WATER WITH ROOTED SUBMERGENT AND EMERGENT VEGETATION AND FILAMENTOUS ALGAE. ASSOCIATED WITH EURYCEA NANA.; THE PRESENCE OF FOUNTAIN DARTERS IN THE HEADWATERS OF THE COMAL RIVER WAS CONFIRMED IN THE SUMMER OF 1989 BY TPWD, USFWS, AND SWTSU BIOLOGISTS

Protection Comments:

Management Comments: PROTECT WATER QUALITY AND LEVEL

Data:

EO Data: 1 Jan 1891: 2 specimens were collected. 12 Apr 1952: At least 1 specimen was collected. 1975: Fish reintroduced after local extinction due to low water.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

SCHENKE, JOHN R. AND B. G. WHITESIDE. 1976. DISTRIBUTION HABITAT PREFERENCE AND POPULATION SIZE ESTIMATES OF ETHEOSTOMA FONTICOLA, COPEIA 1976(4):697-703.

U.S. FISH AND WILDLIFE SERVICE. 1994. MEMO FROM AUSTIN FIELD SUPERVISOR TO REGION 2 DIRECTOR. AUSTIN ECOLOGICAL SERVICES FIELD OFFICE'S 1994 ENDANGERED SPECIES SUBPERMIT REPORT. DECEMBER 8, 1994.

FEDERAL REGISTER. 1980. 45(136):47355-47364.

LEE, DAVID S. ET AL. 1980. ATLAS OF NORTH AMERICAN FRESHWATER FISHES. N.C. STATE MUSEUM OF NAT. HIST., GREENSBORO, NC.

HUBBS, CLARK. DEPARTMENT OF ZOOLOGY. UNIVERSITY OF TEXAS AT AUSTIN. AUSTIN, TX 78712.

Fishes of Texas. 2015. Database download from the Fishes of Texas online database (http://www.fishesoftexas.org/home/) of SGCN species on 11 May 2015. University of Texas, Texas Natural History Collections, Excel spreadsheet.

Specimen:

Cornell Museum of Vertebrates, Cornell University, Ithaca, NY; C.S. Smith, A.A. Wright, Albert Hazen Wright (#unknown), Catalog # 48408, 13 Jan 1942, CU.

Cornell Museum of Vertebrates, Cornell University, Ithaca, NY; Royal D. Suttkus, Edward C. Raney, Smith, Armstrong (#unknown), Catalog # 38493, 12 Apr 1952, CU.

Cornell Museum of Vertebrates, Cornell University, Ithaca, NY; Royal D. Suttkus, Edward C. Raney, Smith, Armstrong (#unknown), Catalog # 51188, 12 Apr 1952, CU.

Fishes Collection, Field Museum of Natural History, Chicago, IL; Barton Warren Evermann (#unknown), Catalog # 6847, 31 Dec 1897, FMNH.

Florida Museum of Natural History, University of Florida, Gainesville, FL; Ralph W. Yerger (#unknown), Catalog # 50802, 12 Apr 1952, UF.

Ichthyology Collections, California Academy of Sciences, San Francisco, CA; Barton Warren Evermann (#unknown), Catalog # 105181, 3 Dec 1891, CAS.

Illinois Natural History Survey Biological Collections, Illinois Natural History Survey, Champaign, IL; M.J. Wetzel (#unknown), Catalog # 45007, 23 May 1997, INHS.

Museum of Natural History, University of Michigan, Ann Arbor, MI; Barton Warren Evermann (#unknown), Catalog # 86348, 31 Dec 1897, UMMZ.

National Museum of Natural History, Smithsonian Institution, Washington DC, 0; Ernest A. Lachner (#unknown), Catalog # 166101, 12 Apr 1952, USNM.

Texas Natural History Collections, University of Texas at Austin, Austin, TX; Clark Hubbs (#unknown), Catalog # 2336, 1 Dec 1951, TNHC.

Texas Natural History Collections, University of Texas at Austin, Austin, TX; Clark Hubbs (#unknown), Catalog # 2342, 1 Dec 1951, TNHC.

Tulane Museum of Natural History, Tulane University, New Orleans, LA; Royal D. Suttkus, Edward C. Raney, C. Lavett Smith, Howard E. Winn (#unknown), Catalog # 4746, 12 Apr 1952, TU.

Element Occurrence Record

Scientific Name: Eurycea neotenes
Occurrence #: 13 **Eo Id:** 7298
Common Name: Texas Salamander
Track Status: Track all extant and selected historical EOs
Identification Confirmed: Y - Yes
TX Protection Status:
Global Rank: G1 **State Rank:** S2
Federal Status:

Location Information:

Directions

Comal Springs, Landa Park, New Braunfels, Texas.

Survey Information:

First Observation: 1948-02-20 **Survey Date:** 2005-06-16 **Last Observation:** 2005-06-16
Eo Type: **Eo Rank:** E **Eo Rank Date:** 2005-06-16
Observed Area:

Comments:

General Description: A large limestone spring feeding a clear creek. Creek is shallow with gravel bottom, some emergent vegetation. Salamanders were collected from beneath rocks in shallow water, also seen to retreat under ledges at stream edge.

Comments:

Protection Comments: Keep spring from drying, protect water quality.

Management Comments:

Data:

EO Data: Feb 1948: 8 specimens collected. Jul 1970: 6 specimens collected. Aug 1971: 18 specimens collected. Aug 1973: 7 specimens collected. Sep 1973: 2 specimens collected. Jul 1974: 42 specimens collected. 16 Apr 1990: 6 specimens were collected. 5 Jul 1990: 6 specimens were collected. 2003: 1 specimen was collected. 18 May 2005: 36 salamanders were caught; 15 males, 15 females (6 gravid), and 6 juveniles. 16 Jun 2005: 24 salamanders were caught; 11 females (4 gravid), 12 males, and 1 juvenile.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

SWEET, SAMUEL S. 83-08-04. LETTER TO JIM E. JOHNSON RE:EDWARDS AQUIFER, COMAL SPRINGS.

Chippindale, P. T., A. H. Price, J. J. Wiens, and D. M. Hillis. 2000. Phylogenetic relationships and systematic revision of central Texas hemidactyliine plethodontid salamanders. Herpetological Monographs 14:1-80.

Hanks, Cullen. 2011. Compilation of Eurycea specimen records for Central Texas extracted from online databases.

Sweet, Samuel S. 1978. The Evolutionary Development of the Texas Eurycea (Amphibia: Plethodontidae). Ph.D. dissertation. University of California, Berkeley. 450 pp.

Lucas, Lauren K., Zachariah Gompert, James R. Ott, and Chris C. Nice. 2009. Geographic and genetic isolation in spring-associated Eurycea salamanders endemic to the Edwards Plateau region of Texas. Conservation Genetics 10:13091319.

Specimen:

Amphibian and Reptile Diversity Research Center, University of Texas at Arlington, TX; P.C. Ustach, Matthew Z. Brym, and C.J. Franklin (# RMB 2940), Catalog # 56674, 2003, UTA.

Texas Natural History Collections, University of Texas at Austin, TX; Chippindale, Hillis, and Price (#DMH 90:170,172-173,176-177), Catalog #51050,52768-52769, 64482-64484, 16 April 1990, TNHC.

Texas Natural History Collections, University of Texas at Austin, TX; Flury (#AGF 1292-1299), Catalog #6234-6241, 20 February 1948, TNHC.

Texas Natural History Collections, University of Texas at Austin, TX; P. Chippindale and A. H. Price (#AHP 3066-3070), Catalog #51051-51055, 5 July 1990, TNHC.

Texas Natural History Collections, University of Texas at Austin, TX; P. Chippindale and A. H. Price (#AHP 3073), Catalog #51056, 5 July 1990, TNHC.

The Museum of Vertebrate Zoology, University of California, Berkeley, CA; Samuel S. Sweet (# 10804-10824), Catalog # 120424-120444, 5 July 1974, MVZ

The Museum of Vertebrate Zoology, University of California, Berkeley, CA; Samuel S. Sweet (# 2552-2555), Catalog # 120392-120395, 6 July 1970, MVZ

The Museum of Vertebrate Zoology, University of California, Berkeley, CA; Samuel S. Sweet (# 2749-2750), Catalog # 120396-120397, 19 July 1970, MVZ

The Museum of Vertebrate Zoology, University of California, Berkeley, CA; Samuel S. Sweet (# 9210-9211), Catalog # 120415-120416, 15 August 1973, MVZ

The Museum of Vertebrate Zoology, University of California, Berkeley, CA; Samuel S. Sweet (# 9609-9613), Catalog # 120417-120421, 25 August 1973, MVZ

The Museum of Vertebrate Zoology, University of California, Berkeley, CA; Samuel S. Sweet (# 9896-9897), Catalog # 120422-120423, 8 September 1973, MVZ

The Museum of Vertebrate Zoology, University of California, Berkeley, CA; Samuel S. Sweet, David B. Wake (# 11413-11433), Catalog # 120445-120465, 20 July 1974, MVZ

The Museum of Vertebrate Zoology, University of California, Berkeley, CA; Samuel S. Sweet, Patricia G. Haneline (# 13104), Catalog # 122813, 4 August 1971, MVZ

The Museum of Vertebrate Zoology, University of California, Berkeley, CA; Samuel S. Sweet, Patricia G. Haneline (# 5817-5819,12444-12448), Catalog # 120398-120405, 4 August 1971, MVZ

The Museum of Vertebrate Zoology, University of California, Berkeley, CA; Samuel S. Sweet, Patricia G. Haneline (# 5870-5862), Catalog # 120406-120414, 10 August 1971, MVZ

Element Occurrence Record

Scientific Name: Eurycea pterophila **Occurrence #:** 37 **Eo Id:** 6956

Common Name: Blanco River Springs Salamander **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G2 **State Rank:** S2 **Federal Status:**

Location Information:

Directions

5.2 mi WSW (by air) Sattler, tributary of Bear Creek, at spring.

Survey Information:

First Observation: 1973-08-25 **Survey Date:** 1973-08-25 **Last Observation:** 1973-08-25

Eo Type: **Eo Rank:** E **Eo Rank Date:** 1973-08-25

Observed Area:

Comments:

General Description:

Comments:

Protection Comments:

Management Comments:

Data:

EO Data: 25 August 1973: 4 specimens were collected.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Sweet, Samuel S. 1982. A distributional analysis of epigean populations of Eurycea neotenes in Central Texas , with comments on the origin of troglobitic populations. Herpetologica 38(3):430-444.

Hanks, Cullen. 2011. Compilation of Eurycea specimen records for Central Texas extracted from online databases.

Sweet, Samuel S. 1978. The Evolutionary Development of the Texas Eurycea (Amphibia: Plethodontidae). Ph.D. dissertation. University of California, Berkeley. 450 pp.

Specimen:

The Museum of Vertebrate Zoology, University of California, Berkeley, CA; Samuel S. Sweet (# 9615-9618), Catalog # 120270-120273, 25 August 1973, MVZ

Element Occurrence Record

Scientific Name: Eurycea pterophila **Occurrence #:** 39 **Eo Id:** 6955

Common Name: Blanco River Springs Salamander **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G2 **State Rank:** S2 **Federal Status:**

Location Information:

Directions

BEAR CREEK SPRING, 7.5 KILOMETERS EAST-SOUTHEAST OF SMITHSON VALLEY

Survey Information:

First Observation: No Date **Survey Date:** **Last Observation:** No Date

Eo Type: **Eo Rank:** **Eo Rank Date:**

Observed Area:

Comments:

General Description:

Comments: SSS 13617-22, 6 SPECIMENS; THIS DESIGNATION REPRESENTS THE REMAINING POPULATIONS OF EURYCEA THAT HAVE NOT BEEN IDENTIFIED AS ONE OF THE OTHER EURYCEA SP, WHICH ARE NOT ALL ONE THING; ANDY PRICE DOES NOT HAVE THE INFORMATION NEEDED TO SEPARATE THEM OUT INTO DISTINCT SPECIES AND LOCALITIES AT THIS TIME

Protection Comments:

Management Comments:

Data:

EO Data: No date: 6 specimens were collected.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Sweet, Samuel S. 1982. A distributional analysis of epigean populations of Eurycea neotenes in Central Texas , with comments on the origin of troglobitic populations. Herpetologica 38(3):430-444.

Specimen:

Samuel S. Sweet personal collection (SSS). Samuel S Sweet (# 13617-22) No Date. Possibly sent to Berkeley Museum (MVZ)

Element Occurrence Record

Scientific Name: Eurycea pterophila **Occurrence #:** 41 **Eo Id:** 9385

Common Name: Blanco River Springs Salamander **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G2 **State Rank:** S2 **Federal Status:**

Location Information:

Directions

Waco Springs (also Hueco Springs or Huaco Springs), Guadalupe River, Comal County.

Survey Information:

First Observation: 2005-09-28 **Survey Date:** 2005-10-19 **Last Observation:** 2005-10-19

Eo Type: **Eo Rank:** E **Eo Rank Date:** 2005-10-19

Observed Area:

Comments:

General Description: 2005: Salamanders were in a small shallow pool in the Hueco Springs Campground.

Comments:

Protection Comments:

Management Comments:

Data:

EO Data: 28 Sep 2005: 5 salamanders were caught. 19 Oct 2005: 11 salamanders were caught.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Lucas, Lauren K., Zachariah Gompert, James R. Ott, and Chris C. Nice. 2009. Geographic and genetic isolation in spring-associated Eurycea salamanders endemic to the Edwards Plateau region of Texas . Conservation Genetics 10:13091319.

Specimen:

Element Occurrence Record

Scientific Name: Eurycea rathbuni **Occurrence #:** 7 **Eo Id:** 9319

Common Name: Texas Blind Salamander **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:** E

Global Rank: G1 **State Rank:** S1 **Federal Status:** LE

Location Information:

Directions

Mission Valley Bowling Well, at the corner of FM 1863 and TX-46, NW of New Braunfels, TX.

Survey Information:

First Observation: 2006-06-16 **Survey Date:** 2006-06-16 **Last Observation:** 2006-06-16

Eo Type: **Eo Rank:** E **Eo Rank Date:** 2006-06-16

Observed Area:

Comments:

General Description: A well.

Comments:

Protection Comments:

Management Comments:

Data:

EO Data: 16 June 2006: 2 specimens were collected.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Hanks, Cullen. 2011. Compilation of Eurycea specimen records for Central Texas extracted from online databases.

Specimen:

Amphibian and Reptile Diversity Research Center, University of Texas at Arlington, TX; Andy Gluesenkamp, D. Fevolia and Casey Roelke (# AGG 1128-1129), Catalog # 57624-57625, 16 June 2006, UTA.

Element Occurrence Record

Scientific Name: Heterelmis comalensis **Occurrence #:** 1 **Eo Id:** 5046

Common Name: Comal Springs Riffle Beetle **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:** E

Global Rank: G1 **State Rank:** S1 **Federal Status:** LE

Location Information:

Directions

LANDA PARK SPRINGS

Survey Information:

First Observation: **Survey Date:** **Last Observation:**

Eo Type: **Eo Rank:** B **Eo Rank Date:**

Observed Area:

Comments:

General Description: HEADWATER SPRINGS TO THE COMAL RIVER

Comments:

Protection Comments:

Management Comments:

Data:

EO Data:

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

BOSSE, LINDA S., DONALD W. TUFF, & HARLEY P. BROWN. 1988. A NEW SPECIES OF HETERELMIS FROM TEXAS (COLEOPTERA:ELMIDAE). SOUTHWEST NAT. 33(2):199-203.

Specimen:

Element Occurrence Record

Scientific Name: Hexalectris warnockii **Occurrence #:** 15 **Eo Id:** 8065

Common Name: Warnock's coral-root **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G2G3 **State Rank:** S2 **Federal Status:**

Location Information:

Directions

19.2 KILOMETERS WEST OF SAN MARCOS ON DEVILS BACKBONE

Survey Information:

First Observation: **Survey Date:** **Last Observation:** 1981-08-07

Eo Type: **Eo Rank:** **Eo Rank Date:**

Observed Area:

Comments:

General Description: LIMESTONE LOAM IN JUNIPER-OAK ASSOCIATION

Comments:

Protection Comments:

Management Comments:

Data:

EO Data:

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Specimen:

SAN ANGELO STATE UNIVERSITY HERBARIUM. 1981. J. CORNELIUS (S.N.), SPECIMEN # ? SAT. 7 AUGUST 1981.

Element Occurrence Record

Scientific Name: Matelea edwardsensis **Occurrence #:** 7 **Eo Id:** 10168

Common Name: Plateau milkvine **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G3 **State Rank:** S3 **Federal Status:**

Location Information:

Directions

Along Cibolo Creek, about 1 mi NW of Selma.

Survey Information:

First Observation: 1964 **Survey Date:** 1964 **Last Observation:** 1964-05-09

Eo Type: **Eo Rank:** D **Eo Rank Date:** 1999-01-01

Observed Area:

Comments:

General Description: In stony, gravelly soil along creek, with M. reticulata.

Comments: Complete specimen citation: In stony, gravelly soil along Cibolo Creek, about 1 mi NW of Selma, with M. reticulata, 9 May 1964, D. S. Correll & C. E. Smith 29540 (TEX-LL).

Protection Comments:

Management Comments:

Data:

EO Data:

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Correll, D.S. and C.E. Smith (29540). 1964. Specimen No. none. TEX-LL.

Specimen:

Correll, D.S. and C.E. Smith (29540). 1964. Specimen No. none. TEX-LL. (S64CORTXTXUS)

Element Occurrence Record

Scientific Name: Micropterus treculii **Occurrence #:** 13 **Eo Id:** 1068

Common Name: Guadalupe Bass **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G3 **State Rank:** S3 **Federal Status:**

Location Information:

Directions

THE GUADALUPE RIVER IN COMAL COUNTY IN THE CITY OF NEW BRAUNFELS AT THE INTERSTATE 35 CROSSING

Survey Information:

First Observation: **Survey Date:** **Last Observation:** 1976-07

Eo Type: **Eo Rank:** **Eo Rank Date:**

Observed Area:

Comments:

General Description: MEDIUM SIZED STREAM; RIFFLES, POOLS, GRAVEL AND ROCK SUBSTRATE

Comments: ENDEMIC TO SEVERAL RIVERS OF EASTERN EDWARDS PLATEAU; COMMON IN PREFERRED HABITAT

Protection Comments: HYBRIDIZES WITH MICROPTERUS PUNCTULATUS

Management Comments:

Data:

EO Data: SPECIMENS COLLECTED FROM THIS STRETCH OF RIVER

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

EDWARDS, ROBERT J. 1980. THE ECOLOGY AND GEOGRAPHIC VARIATION OF THE GUADALUPE BASS (MICROPTERUS TRECULI). PhD. DISSERTATION, ZOOLOGY DEPARTMENT, UT-AUSTIN.

LEE, DAVID S. ET AL. 1980. ATLAS OF NORTH AMERICAN FRESHWATER FISHES. N.C. STATE MUSEUM OF NAT. HIST., GREENSBORO, NC.

Specimen:

Element Occurrence Record

Scientific Name: Micropterus treculii **Occurrence #:** 29 **Eo Id:** 2186

Common Name: Guadalupe Bass **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G3 **State Rank:** S3 **Federal Status:**

Location Information:

Directions

IN THE CIBOLO CREEK, BEXAR COUNTY IH-35 CROSSING IN SELMA

Survey Information:

First Observation: **Survey Date:** **Last Observation:** 1977-04

Eo Type: **Eo Rank:** D **Eo Rank Date:**

Observed Area:

Comments:

General Description: CLEAR, SMALL STREAM; LIMESTONE ROCK AND GRAVEL SUBSTRATE; RIFFLES AND POOLS

Comments: ENDEMIC TO SEVERAL RIVERS OF EASTERN EDWARDS PLATEAU, COMMON IN PREFERRED HABITAT

Protection Comments: HYBRIDIZES WITH MICROPTERUS PUNCTULATUS

Management Comments:

Data:

EO Data: SPECIMENS COLLECTED FROM THIS LOCALITY

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

EDWARDS, ROBERT J. 1980. THE ECOLOGY AND GEOGRAPHIC VARIATION OF THE GUADALUPE BASS (MICROPTERUS TRECULI). PhD. DISSERTATION, ZOOLOGY DEPARTMENT, UT-AUSTIN.

LEE, DAVID S. ET AL. 1980. ATLAS OF NORTH AMERICAN FRESHWATER FISHES. N.C. STATE MUSEUM OF NAT. HIST., GREENSBORO, NC.

Specimen:

Element Occurrence Record

Scientific Name: Micropterus treculii **Occurrence #:** 83 **Eo Id:** 14023

Common Name: Guadalupe Bass **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G3 **State Rank:** S3 **Federal Status:**

Location Information:

Directions

Data aggregated from Fishes of Texas specimens. No directions added.

Survey Information:

First Observation: 1954-07-13 **Survey Date:** 1954-07-13 **Last Observation:** 1954-07-13

Eo Type: **Eo Rank:** H **Eo Rank Date:** 1954-07-13

Observed Area:

Comments:

General Description:

Comments:

Protection Comments:

Management Comments:

Data:

EO Data: 13 Jul 1954: 7 specimens were collected.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Fishes of Texas. 2015. Database download from the Fishes of Texas online database (http://www.fishesoftexas.org/home/) of SGCN species on 11 May 2015. University of Texas, Texas Natural History Collections, Excel spreadsheet.

Specimen:

Texas Natural History Collections, University of Texas at Austin, Austin, TX; Clark Hubbs, Victor G. Springer (#unknown), Catalog # 5106, 13 Jul 1954, TNHC.

Element Occurrence Record

Scientific Name: Micropterus treculii **Occurrence #:** 88 **Eo Id:** 14049

Common Name: Guadalupe Bass **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G3 **State Rank:** S3 **Federal Status:**

Location Information:

Directions

Data aggregated from Fishes of Texas specimens. No directions added.

Survey Information:

First Observation: 1950-07-28 **Survey Date:** 1978-06-25 **Last Observation:** 1978-06-25

Eo Type: **Eo Rank:** H **Eo Rank Date:** 1978-06-25

Observed Area:

Comments:

General Description:

Comments:

Protection Comments:

Management Comments:

Data:

EO Data: 28 Jul 1950: 2 specimens were collected. 8 Aug 1951: 7 specimens were collected. 13 Jul 1959: 1 specimen was collected. 26 Sep 1976: 2 specimens were collected. 25 Jun 1978: 6 specimens were collected.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Fishes of Texas. 2015. Database download from the Fishes of Texas online database (http://www.fishesoftexas.org/home/) of SGCN species on 11 May 2015. University of Texas, Texas Natural History Collections, Excel spreadsheet.

Specimen:

Collection of Vertebrates, Oklahoma State University, Tulsa, OK; Robert Kuehne, Jack Ball (#unknown), Catalog # 12126, 28 Jul 1950, OSU.

Texas Natural History Collections, University of Texas at Austin, Austin, TX; Clark Hubbs (#unknown), Catalog # 7894, 13 Jul 1959, TNHC.

Texas Natural History Collections, University of Texas at Austin, Austin, TX; Clark Hubbs, P.K. Williams (#unknown), Catalog # 2284, 8 Aug 1951, TNHC.

Texas Natural History Collections, University of Texas at Austin, Austin, TX; Robert John Edwards (#unknown), Catalog # 10204, 25 Jun 1978, TNHC.

Texas Natural History Collections, University of Texas at Austin, Austin, TX; unknown (#unknown), Catalog # 44316, 26 Sep 1976, TNHC.

Element Occurrence Record

Scientific Name: Notropis amabilis **Occurrence #:** 64 **Eo Id:** 13448

Common Name: Texas Shiner **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G4 **State Rank:** S4 **Federal Status:**

Location Information:

Directions

Data aggregated from Fishes of Texas specimens. No directions added.

Survey Information:

First Observation: 1958-01-01 **Survey Date:** 1958-01-01 **Last Observation:** 1958-01-01

Eo Type: **Eo Rank:** H **Eo Rank Date:** 1958-01-01

Observed Area:

Comments:

General Description:

Comments:

Protection Comments:

Management Comments:

Data:

EO Data: 1 Jan 1958: At least 1 specimen collected.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Fishes of Texas. 2015. Database download from the Fishes of Texas online database (http://www.fishesoftexas.org/home/) of SGCN species on 11 May 2015. University of Texas, Texas Natural History Collections, Excel spreadsheet.

Specimen:

National Museum of Natural History, Smithsonian Institution, Washington DC, 0; Bruce B. Collette (#unknown), Catalog # 242930, 31 Dec 1960, USNM.

Element Occurrence Record

Scientific Name: Notropis amabilis **Occurrence #:** 66 **Eo Id:** 13452

Common Name: Texas Shiner **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G4 **State Rank:** S4 **Federal Status:**

Location Information:

Directions

Data aggregated from Fishes of Texas specimens. No directions added.

Survey Information:

First Observation: 1952-10-13 **Survey Date:** 1952-10-13 **Last Observation:** 1952-10-13

Eo Type: **Eo Rank:** H **Eo Rank Date:** 1952-10-13

Observed Area:

Comments:

General Description:

Comments:

Protection Comments:

Management Comments:

Data:

EO Data: 13 Oct 1952: At least 1 specimen collected.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Fishes of Texas. 2015. Database download from the Fishes of Texas online database (http://www.fishesoftexas.org/home/) of SGCN species on 11 May 2015. University of Texas, Texas Natural History Collections, Excel spreadsheet.

Specimen:

National Museum of Natural History, Smithsonian Institution, Washington DC, 0; R.A. Kuehne, Jack Ball (#unknown), Catalog # 166268, 13 Oct 1952, USNM.

Element Occurrence Record

Scientific Name: Notropis amabilis **Occurrence #:** 100 **Eo Id:** 13569

Common Name: Texas Shiner **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G4 **State Rank:** S4 **Federal Status:**

Location Information:

Directions

Data aggregated from Fishes of Texas specimens. No directions added.

Survey Information:

First Observation: 1830-01-01 **Survey Date:** 1980-04-20 **Last Observation:** 1980-04-20

Eo Type: **Eo Rank:** H **Eo Rank Date:** 1980-04-20

Observed Area:

Comments:

General Description:

Comments:

Protection Comments:

Management Comments:

Data:

EO Data: 1 Jan 1830: At least 1 specimen collected. 1 Jan 1882: At least 1 specimen collected. 1 Jul 1884: At least 1 specimen collected. 1 Sep 1884: At least 1 specimen collected. 3 Dec 1891: At least 1 specimen collected. 21 Feb 1933: At least 1 specimen collected. 1 Dec 1951: 100 specimens collected. 10 May 1970: 5 specimens collected. 20 Apr 1980: 124 specimens collected.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Fishes of Texas. 2015. Database download from the Fishes of Texas online database (http://www.fishesoftexas.org/home/) of SGCN species on 11 May 2015. University of Texas, Texas Natural History Collections, Excel spreadsheet.

Specimen:

Ichthyology Collections, California Academy of Sciences, San Francisco, CA; David Starr Jordan, Charles H. Gilbert (#unknown), Catalog # 103899, 31 Dec 1891, CAS.

Ichthyology Collections, California Academy of Sciences, San Francisco, CA; David Starr Jordan, Charles H. Gilbert (#unknown), Catalog # 73301, 30 Sep 1884, CAS.

Ichthyology Collections, California Academy of Sciences, San Francisco, CA; William C. Kendall (#unknown), Catalog # 73302, 1 Jan 1894, CAS.

Museum of Natural History, University of Louisiana-Monroe, Monroe, LA; L. Amberg, P. Zumpfe (#unknown), Catalog # 17154, 10 May 1970, NLU.

Museum of Natural History, University of Michigan, Ann Arbor, MI; H.M. Monroe (#unknown), Catalog # 111010, 21 Feb 1933, UMMZ.

National Museum of Natural History, Smithsonian Institution, Washington DC, 0; David Starr Jordan (#unknown), Catalog # 125189, 3 Dec 1891, USNM.

National Museum of Natural History, Smithsonian Institution, Washington DC, 0; David Starr Jordan, Charles H. Gilbert (#unknown), Catalog # 36529, 30 Sep 1884, USNM.

National Museum of Natural History, Smithsonian Institution, Washington DC, 0; David Starr Jordan, Charles H. Gilbert (#unknown), Catalog # 36531, 30 Sep 1884, USNM.

National Museum of Natural History, Smithsonian Institution, Washington DC, 0; David Starr Jordan, Charles H. Gilbert (#unknown), Catalog # 93514, 30 Sep 1884, USNM.

National Museum of Natural History, Smithsonian Institution, Washington DC, 0; David Starr Jordan, Charles H. Gilbert (#unknown), Catalog # 93515, 30 Sep 1884, USNM.

National Museum of Natural History, Smithsonian Institution, Washington DC, 0; David Starr Jordan, Charles H. Gilbert (#unknown), Catalog # 93516, 30 Sep 1884, USNM.

Texas Cooperative Wildlife Collections, Texas A&M University, College Station, TX; John D. McEachran, M. McCoid (#unknown), Catalog # 2825.07, 20 Apr 1980, TCWC.

Texas Natural History Collections, University of Texas at Austin, Austin, TX; A.G. Flury (#unknown), Catalog # 2356, 1 Dec 1951, TNHC.

Texas Natural History Collections, University of Texas at Austin, Austin, TX; Clark Hubbs (#unknown), Catalog # 2341, 1 Dec 1951, TNHC.

Texas Natural History Collections, University of Texas at Austin, Austin, TX; Clark Hubbs (#unknown), Catalog # 2349, 1 Dec 1951, TNHC.

Texas Natural History Collections, University of Texas at Austin, Austin, TX; Clark Hubbs (#unknown), Catalog # 5649, 1 Dec 1951, TNHC.

Element Occurrence Record

Scientific Name: Notropis amabilis **Occurrence #:** 101 **Eo Id:** 13570

Common Name: Texas Shiner **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G4 **State Rank:** S4 **Federal Status:**

Location Information:

Directions

Data aggregated from Fishes of Texas specimens. No directions added.

Survey Information:

First Observation: 1954-06-12 **Survey Date:** 1971-10-16 **Last Observation:** 1971-10-16

Eo Type: **Eo Rank:** H **Eo Rank Date:** 1971-10-16

Observed Area:

Comments:

General Description:

Comments:

Protection Comments:

Management Comments:

Data:

EO Data: 12 Jun 1954: 3 specimens collected. 18 Dec 1960: 10 specimens collected. 16 Oct 1971: 23 specimens collected.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Fishes of Texas. 2015. Database download from the Fishes of Texas online database (http://www.fishesoftexas.org/home/) of SGCN species on 11 May 2015. University of Texas, Texas Natural History Collections, Excel spreadsheet.

Specimen:

Texas Cooperative Wildlife Collections, Texas A&M University, College Station, TX; G.W. Litton (#unknown), Catalog # 1144.01, 18 Dec 1960, TCWC.

Texas Cooperative Wildlife Collections, Texas A&M University, College Station, TX; K.M. Fleming (#unknown), Catalog # 234.01, 16 Oct 1971, TCWC.

Texas Natural History Collections, University of Texas at Austin, Austin, TX; Clark Hubbs (#unknown), Catalog # 7695, 12 Jun 1954, TNHC.

Element Occurrence Record

Scientific Name: Onosmodium helleri **Occurrence #:** 20 **Eo Id:** 601

Common Name: Heller's marbleseed **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G3 **State Rank:** S3 **Federal Status:**

Location Information:

Directions

SAN MARCOS

Survey Information:

First Observation: 1885 **Survey Date:** **Last Observation:** 1885-03-30

Eo Type: **Eo Rank:** **Eo Rank Date:**

Observed Area:

Comments:

General Description:

Comments:

Protection Comments:

Management Comments:

Data:

EO Data:

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

RARE PLANT STUDY CENTER, UNIVERSITY OF TEXAS AT AUSTIN. 1976-12-20. REPORT ON ONOSMODIUM HELLERI.

Specimen:

Element Occurrence Record

Scientific Name: Palaemonetes texanus **Occurrence #:** 1 **Eo Id:** 10503

Common Name: **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G1G2 **State Rank:** S1? **Federal Status:**

Location Information:

Directions

Specimens were collected in the Comal River in the city of New Braunfels, Comal County.

Survey Information:

First Observation: no date **Survey Date:** no date **Last Observation:** no date

Eo Type: **Eo Rank:** H **Eo Rank Date:** no date

Observed Area:

Comments:

General Description:

Comments: The article stated the range of the species included the Comal River in the city of New Braunfels, Comal County.

Protection Comments:

Management Comments:

Data:

EO Data: Unknown date: No data provided.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Strenth, N. E. 1976. A review of the systematics and zoogeography of the freshwater species of Palaemonetes Heller of North America (Crustacea: Decapoda). Smithsonian Contributions to Zoology 228:1-27.

Specimen:

Element Occurrence Record

Scientific Name: Percina apristis **Occurrence #:** 7 **Eo Id:** 13777

Common Name: Guadalupe Darter **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G4 **State Rank:** SNR **Federal Status:**

Location Information:

Directions

Data aggregated from Fishes of Texas specimens. No directions added.

Survey Information:

First Observation: 1884-09-30 **Survey Date:** 2006-12-31 **Last Observation:** 2006-12-31

Eo Type: **Eo Rank:** E **Eo Rank Date:** 2006-12-31

Observed Area:

Comments:

General Description:

Comments:

Protection Comments:

Management Comments:

Data:

EO Data: 30 Sep 1884: At least 1 specimen collected. 8 Aug 1951: 21 specimens collected. 13 Jul 1954: 1 specimen collected. 22 Jun 1991: At least 2 specimens collected. 31 Dec 2006: At least 1 specimen collected.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Fishes of Texas. 2015. Database download from the Fishes of Texas online database (http://www.fishesoftexas.org/home/) of SGCN species on 11 May 2015. University of Texas, Texas Natural History Collections, Excel spreadsheet.

Specimen:

Element Occurrence Record

Scientific Name: Philadelphus texensis var. ernestii **Occurrence #:** 12 **Eo Id:** 2562

Common Name: canyon mock-orange **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: ? - Questionable **TX Protection Status:**

Global Rank: G2 **State Rank:** S3 **Federal Status:**

Location Information:

Directions

30-50 FEET ABOVE RIVER ON VERY STEEP SLOPE, SOUTH SIDE OF GUADALUPE RIVER CA. 0.7-0.8 RIVER MILES WEST OF (UPSTREAM FROM) RIVER CROSSING #1

Survey Information:

First Observation: **Survey Date:** **Last Observation:** 1992-08-22

Eo Type: **Eo Rank:** **Eo Rank Date:**

Observed Area:

Comments:

General Description: VERY STEEP NORTH-FACING LIMESTONE SLOPE (SHEER CLIFFS TO EITHER SIDE) ON EDWARDS LIMESTONE (OR PERHAPS GLEN ROSE); MOISTENED BY SEEPS; INACCESSIBLE

Comments:

Protection Comments:

Management Comments:

Data:

EO Data: NONE AVAILABLE; PLANTS INACCESSIBLE; COULD BE PHILADELPHUS TEXENSIS

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Field Survey (temporary placeholder citation)

Specimen:

Element Occurrence Record

Scientific Name: Phreatodrobia conica **Occurrence #:** 1 **Eo Id:** 12760

Common Name: **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G1 **State Rank:** S2 **Federal Status:**

Location Information:

Directions

Specimens were collected from Hueco Springs (A, smaller; and B, larger spring), Comal County.

Survey Information:

First Observation: 1981-06 **Survey Date:** 1981-07 **Last Observation:** 1981-07

Eo Type: **Eo Rank:** H **Eo Rank Date:** 1981-07

Observed Area:

Comments:

General Description:

Comments: June-July 1981: Holotype and paratypes are deposited in the Academy of Natural Sciences of Philadelphia . Other material examined is housed in the Edwards Aquifer Research and Data Center collection . Specimens were collected using three- and six-inch PVC pipes with attached irrigation socks or funnel netting (and cap type collection vessel). Other species collected at this site are listed in the Associated Species section .

Protection Comments:

Management Comments:

Data:

EO Data: June-July 1981: At least 12 pecimens were collected.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Hershler, R. and G. Longley. 1986. Phreatic hydrobiids (Gastropoda: Prosobranchia) from the Edwards (Balcones Fault Zone) Aquifer region, south-central Texas. Malacologia 27(1): 127-172.

Specimen:

Academy of Natural Sciences, Philadelphia, PA; M. Brzozowski, Catalog ANSP 359086, June-July 1981, ANSP. Holotype.

Academy of Natural Sciences, Philadelphia, PA; M. Brzozowski, Catalog ANSP 359087/A10623B, June-July 1981, ANSP. Paratypes.

Element Occurrence Record

Scientific Name: Phreatodrobia micra **Occurrence #:** 2 **Eo Id:** 12774

Common Name: **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G2G3 **State Rank:** S2 **Federal Status:**

Location Information:

Directions

Specimens were collected from Hueco Springs (A, smaller; and B, larger spring), Comal County.

Survey Information:

First Observation: 1981-06 **Survey Date:** 1981-07 **Last Observation:** 1981-07

Eo Type: **Eo Rank:** H **Eo Rank Date:** 1981-07

Observed Area:

Comments:

General Description:

Comments: June-July 1981: Material examined is housed in the Edwards Aquifer Research and Data Center collection. Specimens were collected using three- and six-inch PVC pipes with attached irrigation socks or funnel netting (and cap type collection vessel). Other species collected at this site are listed in the Associated Species section.

Protection Comments:

Management Comments:

Data:

EO Data: June-July 1981: At least 14 specimens were collected.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Hershler, R. and G. Longley. 1986. Phreatic hydrobiids (Gastropoda: Prosobranchia) from the Edwards (Balcones Fault Zone) Aquifer region, south-central Texas. Malacologia 27(1): 127-172.

Specimen:

Element Occurrence Record

Scientific Name: Phreatodrobia plana **Occurrence #:** 1 **Eo Id:** 12762

Common Name: **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G2 **State Rank:** S2 **Federal Status:**

Location Information:

Directions

Specimens were collected from Comal Springs (main spring), Comal County.

Survey Information:

First Observation: 1981-07 **Survey Date:** 1981-08 **Last Observation:** 1981-08

Eo Type: **Eo Rank:** H **Eo Rank Date:** 1981-08

Observed Area:

Comments:

General Description:

Comments: July-August 1981: Specimens were collected using three- and six-inch PVC pipes with attached irrigation socks or funnel netting (and cap type collection vessel). All material examined is housed in the Edwards Aquifer Research and Data Center collection.

Protection Comments:

Management Comments:

Data:

EO Data: July-August 1981: At least one specimen was collected.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Hershler, R. and G. Longley. 1986. Phreatic hydrobiids (Gastropoda: Prosobranchia) from the Edwards (Balcones Fault Zone) Aquifer region, south-central Texas. Malacologia 27(1): 127-172.

Specimen:

Element Occurrence Record

Scientific Name: Phreatodrobia plana **Occurrence #:** 2 **Eo Id:** 12763

Common Name: **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G2 **State Rank:** S2 **Federal Status:**

Location Information:

Directions

Specimens were collected in Natural Bridge Caverns (River Styx at bottom of cave).

Survey Information:

First Observation: 1984-09-07 **Survey Date:** 1984-09-07 **Last Observation:** 1984-09-07

Eo Type: **Eo Rank:** H **Eo Rank Date:** 1984-09-07

Observed Area:

Comments:

General Description:

Comments: 7 Sep 1984: Specimens were collected by conducting visual searches for shells near permanent water and by sieving sediment with a fine hand sieve. Material examined is housed in the Edwards Aquifer Research and Data Center collection. Other species collected at this site are listed in the Associated Species section .

Protection Comments:

Management Comments:

Data:

EO Data: 7 Sep 1984: Specimens were collected.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Hershler, R. and G. Longley. 1986. Phreatic hydrobiids (Gastropoda: Prosobranchia) from the Edwards (Balcones Fault Zone) Aquifer region, south-central Texas. Malacologia 27(1): 127-172.

Specimen:

Element Occurrence Record

Scientific Name: Prunus minutiflora **Occurrence #:** 72 **Eo Id:** 10718

Common Name: Texas almond **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: **TX Protection Status:**

Global Rank: G3G4 **State Rank:** S3S4 **Federal Status:**

Location Information:

Directions

Behind (W of) Taco Bell on S side of St. Rt. 46 between Interstate 35 and Loop 337 (i.e ca. 1/4 mi W of Interstate 35).

Survey Information:

First Observation: **Survey Date:** **Last Observation:** 1997-93-16

Eo Type: **Eo Rank:** D **Eo Rank Date:**

Observed Area:

Comments:

General Description:

Comments: Complete label citation: New Braunfels, NE side of town, W of I-35, on Loop 337 behind the Taco Bell, in thin strip of brush, 16 Feb 1997, M. Enquist 3305 (BRIT/SMU, TAES).

Protection Comments:

Management Comments:

Data:

EO Data: Numerous shrubs observed in 1997.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Specimen:

M. Enquist 3305 (BRIT/SMU)

Element Occurrence Record

Scientific Name: Spilogale gracilis **Occurrence #:** 4 **Eo Id:** 12815

Common Name: Western spotted skunk **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G5 **State Rank:** S5 **Federal Status:**

Location Information:

Directions

The specimen label states that it was located 24 kilometers north of New Braunfels (UTM 14R 581695, 3310470), Comal County, TX.

Survey Information:

First Observation: unknown **Survey Date:** unknown **Last Observation:** unknown

Eo Type: **Eo Rank:** E **Eo Rank Date:** unknown

Observed Area:

Comments:

General Description:

Comments:

Protection Comments:

Management Comments:

Data:

EO Data: unknown date:

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Dowler, Robert C., C. E. Ebeling, G. I. Guerra, and A. W. Ferguson. 2008. The distribution of spotted skunks, genus Spilogale, in Texas. Texas Journal of Science 60(4):312-326.

Specimen:

Element Occurrence Record

Scientific Name: Spilogale putorius **Occurrence #:** 8 **Eo Id:** 12661

Common Name: Eastern spotted skunk **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G4 **State Rank:** S1S3 **Federal Status:**

Location Information:

Directions

The specimen label states that it was located in San Antonio. The georeferenced coordinates, based on VertNet Best Practices Guidelines, were used.

Survey Information:

First Observation: 1988-08-16 **Survey Date:** 1988-08-16 **Last Observation:** 1988-08-16

Eo Type: **Eo Rank:** H **Eo Rank Date:** 1988-08-16

Observed Area:

Comments:

General Description:

Comments:

Protection Comments:

Management Comments:

Data:

EO Data: 16 August 1988: Skin, skull, and body skeleton of one male preserved specimen.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Ferguson, Adam. 2014. Texas Skunk Record Database regarding five specices of skunk in Texas.

Van Gelder, Richard G. 1959. A taxonomic revision of the spotted skunks (Genus Spilogale). Bulletin of the American Museum of Natural History 117(5):229-392.

Specimen:

Biodiversty Research and Teaching Collections, Texas A & M University, College Station, TX; J. W. Dragoo (#unknown), Catalog #57880, Special #JWD 440, 16 August 1988, TCWC.

Element Occurrence Record

Scientific Name: Streptanthus bracteatus **Occurrence #:** 1 **Eo Id:** 2210

Common Name: bracted twistflower **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G1G2 **State Rank:** S1S2 **Federal Status:** C

Location Information:

Directions

New Braunfels

Survey Information:

First Observation: 1846-05 **Survey Date:** **Last Observation:** 1846-05

Eo Type: **Eo Rank:** H **Eo Rank Date:** 1846-05

Observed Area:

Comments:

General Description:

Comments:

Protection Comments:

Management Comments:

Data:

EO Data: May 1846: Holotype specimen was collected.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Damude, Noreen and Jackie M. Poole. 1990. Status Report on Streptanthus bracteatus. December 1, 1990. 92 pages.

Rollins, Reed C. 1990. Letter to Noreen Damude discussing Streptanthus bracteatus specimens and records. November 22, 1990.

Specimen:

Gray Herbarium, Harvard University, Cambridge, MA; 1846. F. J. Lindheimer #15, accession # 19690 (Engelmann # 5179) May 1846. GH

Missouri Botanical Garden Herbarium, St. Louis, MO; 1846. F. J. Lindheimer #5180. Accession # 201811. Bar code # MO-2196089. Engelmann# 5179-5180. May 1846. MO

Element Occurrence Record

Scientific Name: Texanobathynella bowmani **Occurrence #:** 1 **Eo Id:** 12790

Common Name: a bathynellid **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: GNR **State Rank:** S2S4 **Federal Status:**

Location Information:

Directions

Specimens were collected from the Schumann House Well in Comal County.

Survey Information:

First Observation: 2008 **Survey Date:** 2008 **Last Observation:** 2008

Eo Type: **Eo Rank:** E **Eo Rank Date:** 2008

Observed Area:

Comments:

General Description: 2008: The well flows out of a small pipe and into a concrete stock tank.

Comments: 2008: Samples were collected by placing a plankton net over the outflow and collecting samples from the collection bottle at the base of the net. Samples were collected approximately monthly. Sampling was not continued in 2009, 2010. Other species collected at this site are listed in the Associated Species section.

Protection Comments:

Management Comments:

Data:

EO Data: 2008: A total of 7 individuals were collected during 10 sampling events; exact dates of collection are not known.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Zara Environmental LLC. 2014. Fauna of wells near the saline water line of the Edwards Aquifer, Texas. Prepared for Edwards Aquifer Authority, San Antonio, TX. 19 September 2014. 41 pp.

Zara Environmental LLC. 2010. Final report for deep aquifer biota study of the Edwards Aquifer. Prepared for Edwards Aquifer Authority, San Antonio, Texas. 30 December 2010. 109 pp.

Specimen:

Element Occurrence Record

Scientific Name: Tridens buckleyanus **Occurrence #:** 3 **Eo Id:** 5323

Common Name: Buckley tridens **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G3G4 **State Rank:** S3S4 **Federal Status:**

Location Information:

Directions

NORTH OF PARK, NEW BRAUNFELS

Survey Information:

First Observation: **Survey Date:** **Last Observation:**

Eo Type: **Eo Rank:** **Eo Rank Date:**

Observed Area: 1.00

Comments:

General Description: ROCKY PLACES, OPEN WOODS

Comments:

Protection Comments:

Management Comments:

Data:

EO Data: TRIODA BUCKLEYANUS (L.H. DEWEY), VERIFIED OR DETERMINED BY AGNES CHASE OR J.R. SWALKEN

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Specimen:

Botanical Research Institute of Texas, Fort Worth. No Date. W.A. Silveus #768, Specimen # ? BRIT.

TEXAS A & M UNIVERSITY, TRACY HERBARIUM. NO DATE. W.A. SILVEUS #768, SPECIMEN #86773 TAES.

UNIVERSITY OF TEXAS AT AUSTIN HERBARIUM. NO DATE. W.A. SILVEUS #768, SPECIMEN # ? TEX.

APPENDIX E

IPaC REPORT (USFWS)

IPaC Information for Planning and Consultation **U.S. Fish & Wildlife Service**

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

NOT FOR CONSULTATION

Project information

NAME

Dry Comal Hike and Bike Trail

LOCATION

Comal County, Texas



DESCRIPTION

Proposed

trail along Dry Comal Creek, New Braunfels, Texas

Local office

Austin Ecological Services Field Office

(512) 490-0057

(512) 490-0974

10711 Burnet Road, Suite 200
Austin, TX 78758-4460

http://www.fws.gov/southwest/es/AustinTexas/
http://www.fws.gov/southwest/es/EndangeredSpecies/lists/

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Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population, even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Log in to IPaC.
2. Go to your My Projects list.
3. Click PROJECT HOME for this project.
4. Click REQUEST SPECIES LIST.

Listed species

[1] and their critical habitats are managed by the Ecological Services Program of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries[2]).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact NOAA Fisheries for species under their jurisdiction.

NOT FOR CONSULTATION

1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the listing status page for more information.
2. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Birds

NAME	STATUS
Golden-cheeked Warbler (=wood) Dendroica chrysoparia No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/33	Endangered
Least Tern Sterna antillarum This species only needs to be considered if the following condition applies: • Wind Energy Projects No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/8505	Endangered
Piping Plover Charadrius melodus This species only needs to be considered if the following condition applies: • Wind Energy Projects There is **final** critical habitat for this species. Your location is outside the critical habitat. https://ecos.fws.gov/ecp/species/6039	Threatened
Red Knot Calidris canutus rufa This species only needs to be considered if the following condition applies: • Wind Energy Projects No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/1864	Threatened
Whooping Crane Grus americana There is **final** critical habitat for this species. Your location is outside the critical habitat. https://ecos.fws.gov/ecp/species/758	Endangered

Amphibians

NAME	STATUS
San Marcos Salamander Eurycea nana There is **final** critical habitat for this species. Your location is outside the critical habitat. https://ecos.fws.gov/ecp/species/6374	Threatened
Texas Blind Salamander Typhlomolge rathbuni No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/5130	Endangered

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Fishes

NAME	STATUS
Fountain Darter Etheostoma fonticola There is **final** critical habitat for this species. Your location is outside the critical habitat. https://ecos.fws.gov/ecp/species/5858	Endangered

Clams

NAME	STATUS
Golden Orb Quadrula aurea No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/9042	Candidate
Texas Fatmucket Lampsilis bracteata No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/9041	Candidate
Texas Fawnsfoot Truncilla macrodon No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/8965	Candidate
Texas Pimpleback Quadrula petrina No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/8966	Candidate

Insects

NAME	STATUS
Comal Springs Dryopid Beetle Stygoparnus comalensis There is **final** critical habitat for this species. Your location is outside the critical habitat. https://ecos.fws.gov/ecp/species/7175	Endangered
Comal Springs Riffle Beetle Heterelmis comalensis There is **final** critical habitat for this species. Your location is outside the critical habitat. https://ecos.fws.gov/ecp/species/3403	Endangered

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Crustaceans

NAME	STATUS
Peck's Cave Amphipod Stygobromus (=Stygonectes) pecki There is **final** critical habitat for this species. Your location is outside the critical habitat. https://ecos.fws.gov/ecp/species/8575	Endangered

Flowering Plants

NAME	STATUS
Bracted Twistflower Streptanthus bracteatus No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/2856	Candidate
Texas Wild-rice Zizania texana There is **final** critical habitat for this species. Your location is outside the critical habitat. https://ecos.fws.gov/ecp/species/805	Endangered

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

NOT FOR CONSULTATION

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act [1] and the Bald and Golden Eagle Protection Act[2].

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php

- Measures for avoiding and minimizing impacts to birds
  http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php
- Nationwide conservation measures for birds
  http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf

The birds listed below are birds of particular concern either because they occur on the USFWS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the E-bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NOT FOR CONSULTATION

NAME	BREEDING SEASON (IF A BREEDING SEASON IS INDICATED FOR A BIRD ON YOUR LIST, THE BIRD MAY BREED IN YOUR PROJECT AREA SOMETIME WITHIN THE TIMEFRAME SPECIFIED, WHICH IS A VERY LIBERAL ESTIMATE OF THE DATES INSIDE WHICH THE BIRD BREEDS ACROSS ITS ENTIRE RANGE. "BREEDS ELSEWHERE" INDICATES THAT THE BIRD DOES NOT LIKELY BREED IN YOUR PROJECT AREA.)
Bald Eagle *Haliaeetus leucocephalus* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Sep 1 to Jul 31
Lesser Yellowlegs *Tringa flavipes* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9679	Breeds elsewhere

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

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Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

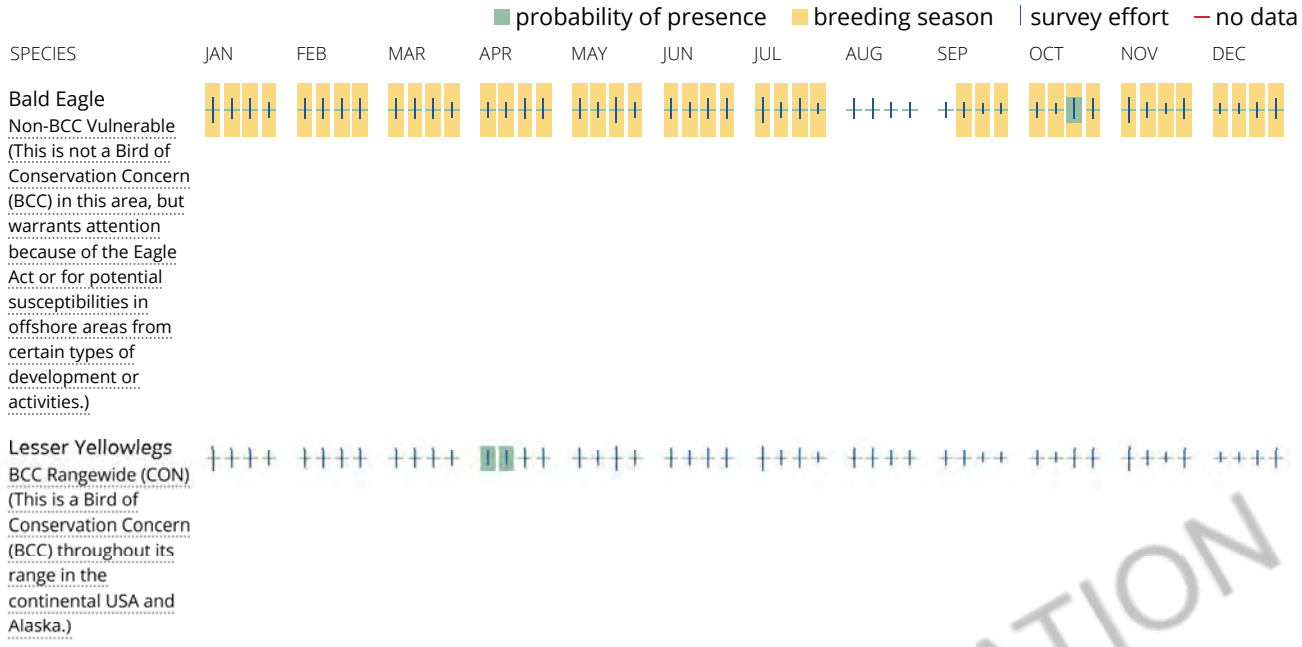
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (–)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



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Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures and/or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the E-bird Explore Data Tool.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the Avian Knowledge Network (AKN). This data is derived from a growing collection of survey, banding, and citizen science datasets .

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: The Cornell Lab of Ornithology All About Birds Bird Guide, or (if you are unsuccessful in locating the bird of interest there), the Cornell Lab of Ornithology Neotropical Birds guide. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are Birds of Conservation Concern (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the Eagle Act requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the Diving Bird Study and the nanotag studies or contact Caleb Spiegel or Pam Loring.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ “What does IPaC use to generate the migratory birds potentially occurring in my specified location”. Please be aware this report provides the “probability of presence” of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey

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effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

Wildlife refuges and fish hatcheries

REFUGE AND FISH HATCHERY INFORMATION IS NOT AVAILABLE AT THIS TIME

Wetlands in the National Wetlands Inventory

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

WETLAND INFORMATION IS NOT AVAILABLE AT THIS TIME

This can happen when the National Wetlands Inventory (NWI) map service is unavailable, or for very large projects that intersect many wetland areas. Try again, or visit the NWI map to view wetlands at this location.

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Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

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Waters of the U.S. Delineation

Dry Comal Creek Hike and Bike Trail
New Braunfels, Comal County, Texas

RKEI Project No. ASF18-097-00

Prepared for:

City of New Braunfels

550 Landa Street
New Braunfels, Texas 78130

Prepared by:

RABA KISTNER ENVIRONMENTAL

12821 West Golden Lane
San Antonio, Texas 78249

August 13, 2018

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Appendices

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Appendix D Additional Site Photographs

List of Preparers

Nicolas Post, AICP Environmental Planner

EXECUTIVE SUMMARY

The City of New Braunfels, Texas proposes to create an approximately one-mile concrete Hike and Bike Trail along Dry Comal Creek between North Walnut Avenue and Landa Street in the City of New Braunfels, Comal County, Texas.

Raba Kistner Environmental, Inc. (RKEI) has conducted a delineation of potential waters of the U.S. (WOUS) for the City of New Braunfels' Dry Comal Creek Hike and Bike Trail. The delineation was conducted to determine the presence of and delineate the boundaries of potential WOUS that may be regulated by the U.S. Army Corps of Engineers (USACE) under Section 404 of the Clean Water Act (CWA). The USACE Review Area for this delineation consists of a 50-foot buffer surrounding the proposed trail. The property is accessed via North Walnut Avenue from the western end and Landa Street from the eastern end (**Figure 1**).

The *1987 USACE Wetland Delineation Manual* (hereinafter referred to as the *"1987 Manual"*); USACE's *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Great Plains Region (Version 2.0), March 2010 (*hereinafter referred to as the *"Regional Supplement";* and *Regulatory Guidance Letter (RGL) No. 05-05* were used to aid in identifying any jurisdictional WOUS within the Review Area.

The results of this delineation indicate that within the Review Area, there are approximately 922 linear feet (LF) (0.514 acres) of non-wetland waters associated with Dry Comal Creek and 0.037 acres of wetlands (**Figure 6**).

1.0 INTRODUCTION

1.1 Background

The City of New Braunfels, Texas proposes to construct an approximately one-mile concrete segment of a Hike and Bike Trail between North Walnut Street and Landa Street on portions of an existing crushed granite trail. The trail follows Dry Comal Creek with one crossing point at North Guenther Avenue. The project limits are shown in **Figure 1**.

CWA regulations at 33 CFR 328.3(a) contain the legal definition of WOUS; however, in general, WOUS may include a range of aquatic resources such as rivers, creeks, streams, tributaries, and adjacent wetlands. Per USACE and the U.S. Environmental Protection Agency (USEPA) guidance, "wetlands" are those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands are identified using a three-parameter approach, which involves identifying certain characteristics in soils, vegetation, and hydrology that develop when an area is adapted to wet conditions. WOUS (wetlands and non-wetland waters) are regulated by the USACE, which regulates the discharge of fill material into WOUS resulting from construction or development activities. Under the USACE's permit program, development projects may proceed under certain conditions, subject to demonstration that steps were taken to avoid, minimize, or compensate for any impacts to WOUS.

The purpose of this study was to identify any potential WOUS (including wetlands) within the Review Area that may be regulated under Section 404 of the CWA.

1.2 Project Location

As shown in **Figure 1** and in the inset graphic to the right, the Review Area consists of a 50-foot buffer surrounding the proposed Hike and Bike Trail along Dry Comal Creek in the City of New Braunfels. The adjacent properties in all directions of the Review Area consist largely of residential properties and undeveloped land.



2.0 DESKTOP RESOURCES REVIEW

Published desktop resources were reviewed to gather information regarding the vegetation, hydrology, and soils in the Review Area. These reviews are summarized in the following sections. Geographic Information System (GIS) desktop activities were used to identify watercourses, interpret land use, and prepare field maps and appendices.

2.1 Ecological Setting

The Review Area is within the Blackland Prairie Ecoregion of Texas, an area characterized by deep, fertile black soils. This area once supported large tall-grass prairies of blue-stem, Indiangrass, and switchgrass but now is predominantly agricultural land because of the soil quality. According to the Texas Parks and Wildlife Department's (TPWD) Vegetation Types of Texas (1984) the area is now classified as primarily crops. Commonly associated plants in the crops designation include cultivated cover crops or row crops that provide food and/or fiber for man or domestic animals. The "crops" designation may also include grassland associated with crop rotations. The vegetation within the project limits consisted of those typical in a stream or riparian environment.

2.2 Topographic Maps

Historical topographic maps are helpful in examining historic natural drainage patterns. These maps depict changes in the landscape over time and provide insight into how these changes may have influenced surface waters in the vicinity. Historical topographic maps (U.S. Geological Survey *[USGS] 7.5-Minute Series, New Braunfels West, Texas Quadrangle*) dated 1916, 1925, 1958, 1973, 1988, and 2013 (**Appendix A**) were reviewed and are summarized below.

In all topographic maps the Review Area is mainly undeveloped land along the northern bank of Dry Comal Creek and is approximately 630 feet above sea level.

2.3 Aerial Photography

Aerial photographs provide a historical record of site use and development, and help track natural and man-made changes to the landscape (including surface water features) over time. **RKEI** reviewed aerial photography dated 1938, 1952, 1958, 1969, 1976, 1987, 1995, 2004, 2005, 2008, 2010, 2012, 2014, and 2016 (**Appendix B**).

The majority of the Review Area in all imagery is shown as undeveloped land with a visible riparian buffer along the creek. The adjacent areas to the south are largely developed in all imagery, while the northern adjacent properties remain undeveloped with the exception of a single-family housing development that appears in 2010. Imagery after 2010 shows the Review Area as it appears today.

2.4 National Wetlands Inventory

National Wetlands Inventory (NWI) maps, published by the U.S. Fish and Wildlife Service (USFWS), were reviewed for information on possible wetlands and other surface water features in the Review Area. These maps were created using stereoscopic analysis of high-altitude photographs. NWI maps assign wetland classification codes to prominent surface water features. The codes are based on the USFWS

publication titled *Classification of Wetlands and Deepwater Habitats of the United States* (USFWS 1979), and are a series of letter and number codes that adapted the national wetland classification system to map form. These alpha-numeric codes correspond to the classification nomenclature that best describes the feature (e.g. PFO1A). Although NWI maps provide a good screening method for identifying potential features, a detailed on-the-ground and historical analysis of a site is required. NWI maps also do not define the jurisdictional limits of federal, state, or local governments.

RKEI reviewed NWI data for the Review Area and adjacent areas (USFWS 2018) (**Figure 3**). One distinct feature, a riverine, intermittent, seasonally flooded streambed (R4SBC), is present near the Review Area and was flowing at the time of the field investigation.

2.5 Floodplains

According to Federal Emergency Management Agency (FEMA) digital floodplain map data (Map Number 48091C0435F (effective September 2009), the majority of the Review Area is within the 100-year flood plain (**Figure 4**).

2.6 Soils

According to the U.S. Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS), *Web Soil Survey*, Krum Clay (KrA), Seawillow Clay Loam (SeD), and Oakalla silty clay loam (Ok), which are not hydric soils, are present in the Review Area. They are shown in **Figure 5** and described below:

- KrA - Krum clay
  Deep, nearly level soil typically found on stream terraces and valley fills. The surface layer of Krum clay is a dark brown clay with some calcareous nodules to a depth of approximately 19 inches above a lighter colored clay layer that ranges up to 48 inches thick or more. Permeability of this soil ranges from 0.2 to 0.6 inches per hour and surface runoff is slow.

- SeD – Seawillow Clay Loam
  This soil consists of up to 62 inches of clay loam down to the bedrock. It is typically found on stream terraces and is well drained. This soil is not listed on the USDA list of hydric soils.

- Ok – Oakalla silty clay loam
  This soil is typically found in floodplain areas and consists of a surface layer of silty clay loam 80 inches below ground surface down to bedrock. This soil is well drained and is not susceptible to runoff.

3.0 FIELD INVESTIGATION

Delineation fieldwork was conducted on July 30, 2018. The general methodology of the field investigations included walking the entire Review Area, identifying changes in vegetation communities, and completing Wetland Determination Data Forms. Specific USACE guidance was used in identifying non-wetland and wetland criteria. This guidance is used to identify physical characteristics of surface waters that meet USACE criteria for CWA jurisdiction. The results of the field investigation are described below.

3.1 Non-Wetland Waters

The Review Area was assessed to determine whether CWA jurisdiction would likely apply. The area nearest the freshwater pond was then observed for potential wetlands that may be considered adjacent and therefore jurisdictional (wetlands are described in **Section 3.2**). *Regulatory Guidance Letter (RGL) No. 05-05* on the subject of *Ordinary High Water Mark Identification* provides the criteria for examining non-wetland conditions[1]. Specifically, the RGL defines the term Ordinary High Water mark (OHWM) as the line on the shore established by the fluctuations of water and indicated by physical characteristics established by the fluctuations of water such as:

- a clear, natural line impressed on the bank,
- shelving,
- changes in the character of soil,
- destruction of terrestrial vegetation,
- the presence of litter and debris, or
- other appropriate means that consider the characteristics of the surrounding areas.

The presence of one or more of the above conditions indicates that an OHWM is present for the purpose of determining the limits of CWA jurisdiction.

In addition, the USACE's *Jurisdictional Determination Form Instruction Guidebook* (USACE 2007) defines the following two terms:

- Relatively Permanent Waters (RPW): These are tributaries that typically flow year-round or have continuous flow at least seasonally. These tributaries, and adjacent[2] wetlands, are subject to CWA jurisdiction.

- Non-Relatively Permanent Waters (Non-RPW): These are tributaries that typically do not flow year-round and do not have continuous flow at least seasonally. Non-RPWs are also subject to CWA jurisdiction when they have a "significant nexus" with a traditionally navigable water (TNW). Wetlands adjacent to such water bodies are also subject to CWA jurisdiction. Wetlands adjacent to RPWs are subject to CWA jurisdiction as described in the previous bullet.

[1] *RGL 05-05* addresses the identification of an Ordinary High Water Mark in situations where no such adjacent wetlands exist. Wetland boundaries are identified using the 1987 USACE Wetland Delineation Manual described in Section 3.2.

[2] Defined as "bordering, neighboring, or contiguous" even when separated from other WOUS by man-made dikes/barriers, natural river berms, etc.

Based on the field investigation, Dry Comal Creek crosses within 50 feet of the Review Area in three areas. The OHWM along the creek exhibits several characteristics described in RGL No. 05-05, including a natural line impressed on the bank, shelving, destruction of terrestrial vegetation, and the presence of litter and debris.

3.2 Wetlands

On July 30, 2018, a wetland delineation was conducted using guidance from the *1987 Manual* and the *Regional*.[3] According to the *1987 Manual*, wetland identification is based on a three-factor approach involving indicators of hydrophytic vegetation, hydric soil, and wetland hydrology, which are described in the following sub-sections. Two sampling points were assessed to distinguish upland versus in-wetland locations based on the presence of what appeared to be a saturated area adjacent to Dry Comal Creek. The sample points represent a single observation point for each of the three wetland factors using a prescribed Wetland Determination Data Form (**Appendix C**)**.** The sampling point locations are shown in **Figure 6**. The following sections describe vegetation, hydrology, and soils observed during the field visit.

3.2.1 Hydrophytic Vegetation

TPWD's 1984 map publication titled *The Vegetation Types of Texas* describes vegetation on a large scale and provides basic information on the general vegetation assemblages one might encounter in a specific region. According to this map, the Review Area is located in Map Unit No. 44 (Crops) (TPWD 1984).

According to the *Regional Supplement*, "hydrophytic vegetation" is defined as a community of macrophytes that occurs in areas where inundation or soil saturation is either permanent or of sufficient frequency and duration to exert a controlling influence on the plant species present (USACE 2010). Hydrophytic vegetation is present when the plant community is dominated by species that require or can tolerate prolonged inundation or soil saturation during the growing season (USACE 2010).

Hydrophytic vegetation is identified by using the indicators described in the *Regional Supplement* and documented on the Wetland Determination Data Form (**Appendix C**). Wetland plant indicator codes are used to describe plants for the purposes of identifying wetlands. These status codes are defined in the following table:

Table 1. Wetland Indicator Status Codes for Plants

Indicator Code	Indicator Status	Designation	Comment
OBL	Obligate Wetland	Hydrophyte[4]	Almost always occur in wetlands
FACW	Facultative Wetland	Hydrophyte	Usually occur in wetlands, but may occur in non-wetlands
FAC	Facultative	Hydrophyte	Occur in wetlands and non-wetlands

[3] The *Regional Supplement* presents wetland indicators, delineation guidance, and other information specific to the Atlantic and Gulf Coast Plain region. It was designed to be used in conjunction with the *1987 Manual*; however, where differences in the two documents occur, the Regional Supplement takes precedence over the *1987 Manual*.

[4] A "hydrophyte" is any plant adapted to grow completely or partly submerged in water or wet habitats.

Indicator Code	Indicator Status	Designation	Comment
FACU	Facultative Upland	Non-hydrophyte	Usually occur in non-wetlands, but may occur in wetlands
UPL	Obligate Upland	Non-hydrophyte	Almost never occur in wetlands

Source: https://plants.usda.gov/wetinfo.html (Accessed August 7, 2018).

Two sample points were taken in the Review Area within a potential wetland adjacent to the Dry Comal Creek. They were taken to determine the presence or absence of hydrophytic vegetation, hydric soils, and hydrology. Dominant species identified within the sampling points are shown in **Appendix C** and summarized in the following table:

Point ID	Dominant vegetation			
	Tree	Sapling/Shrub	Herb	Woody Vine
SP-1	*Salix nigra* (FACW) *Taxodium distichum* (OBL) *Ulmus crassifolia* (FAC)	*Triadica sebifera* (FAC) *Senegalia greggii* (UPL)	*Eichhornia crassipes* (OBL)	N/A
SP-2	*Salix nigra* (FACW) *Taxodium distichum* (OBL)	*Triadica sebifera* (FAC) *Senegalia greggii* (UPL)	*Cyperus eragrostis* (FACW)	N/A

3.2.2 Wetland Hydrology

In general, the term "wetland hydrology" encompasses all hydrologic characteristics in areas that are periodically inundated or have soils saturated to the surface at some time during the growing season. Areas with evident wetland hydrology characteristics include those where the presence of water has an overriding influence on characteristics of vegetation and soils due to anaerobic and reducing conditions, respectively. According to the *Regional Supplement*, wetland hydrology indicators may include: (a.) direct observation of surface water or groundwater during a site visit; (b.) evidence that the site is subject to flooding or ponding (e.g. water marks, drift deposits, sediment deposits, etc.); (c.) other evidence of current/recent soil saturation (e.g. oxidized rhizospheres on living roots, reduced iron or sulfur in the soil profile, etc.); and (d.) landscape and vegetation features that indicate contemporary wet conditions. Specific wetland hydrology indicators are defined in Wetland Determination Data Forms.

The *Regional Supplement* divides wetland hydrology indicators into two categories – primary and secondary. One primary indicator from any group is sufficient to conclude that wetland hydrology is present. Wetland hydrology was confirmed at both sampling points with the presence of saturated soils.

3.2.3 Hydric Soils

Hydric soils are those that are saturated, flooded, or ponded long enough during the growing season to develop anaerobic conditions in their upper parts. Typical field indicators of hydric soils are the presence of thick organic layers, or in the case of predominantly mineral soils, a low chroma matrix (gray color) and/or bright mottling, and/or other redoximorphic (redox) features – all soil color changes resulting from prolonged anaerobic conditions.

As noted in **Section 2.6**, the predominant soils in the Review Area are mapped as Oakalla silty clay loam (Ok), Seawillow Clay Loam (SeD), and Krum Clay (KrA). These soils are not listed in the USDA's National

List of Hydric Soils (updated December 2015). During the routine wetland delineation, efforts were made to excavate the upper 18 inches of soil using a "sharpshooter" shovel;

Hydric soil determinations were made using the methodology and field indicators described in the *1987 Manual* and *Regional Supplement*. Soils at the Sampling Points were characterized as silty clay and loamy clay with no evidence of redoximorphic features. The table below summarizes the locations and results of the wetlands sampling and analysis. Photographs taken during field activities are included as **Appendix D**.

Sample Point	Location	Presence of Wetland Criteria[1] (Y=Yes / N=No)			
		Hydrophytic Vegetation	Wetland Hydrology	Hydric Soils	Is it a wetland?
SP-1	Southern boundary of small wetland in the central portion of the Review Area.	**Y**	**Y**	**Y**	**Y**
SP-2	Approximately five feet southeast of SP-1	**Y**	**Y**	**N**	**N**

1. Data summarized from the Wetland Determination Data Forms included in **Appendix C**.

3.3 Significant Nexus

Regarding non-navigable waters and Non-RPWs, Rapanos v. United States established that tributaries and their adjacent wetlands must have more than a speculative or insubstantial effect on the chemical, physical, and biological integrity of a TNW in order to be considered subject to CWA jurisdictional (Oyez 2017). The USACE's *Jurisdictional Determination Form Instruction Guidebook* introduced the term "significant nexus" to address this, and it may be measured using 'indirect' measures of stream function (e.g. evidence of woody debris, natural channel obstructions, sediment deposition, or aquatic organisms).

RKEI field personnel identified one potentially jurisdictional wetland feature in the central portion of the Review Area. The area was surrounded by obligate plants and appeared to contain water most of the year as evidenced by water lines and saturated soils. Based on these observations this feature could potentially have a significant nexus to downstream TNWs.

4.0 FINDINGS AND CONCLUSIONS

The City of New Braunfels proposes to create an approximately one-mile segment of a concrete Hike and Bike Trail along Dry Comal Creek between North Walnut Avenue and Landa Street in the City of New Braunfels, Comal County, Texas. The City of New Braunfels engaged **RKEI** to conduct a delineation of potential WOUS as defined under Section 404 of the CWA. The purpose of this exercise was to determine whether any features within the Review Area could constitute WOUS, subject to regulatory CWA jurisdiction.

Based on review of published reference materials and on-site observations within the Review Area, **RKEI** identified two features that represent potential WOUS. This includes one non-wetland water, and one wetland. Both are summarized below.

- **Dry Comal Creek**: A total of 922 LF of Dry Comal Creek flows within the 50-foot Review Area. This creek was flowing at the time of field visit and appears to be a RPW.
- **Dry Comal Creek Adjacent Wetland:** This wetland area is 0.037 acres and is approximately 20 feet north of Dry Comal Creek.

The results of this delineation indicate that within the Review Area, there are approximately 922 LF (0.514 acres) of non-wetland waters associated with Dry Comal Creek and 0.037 acres of wetlands (**Figure 6**).

5.0 REFERENCES

Federal Emergency Management Agency. 2009. *Map Number 48091C0435F*.

GeoSearch. 2018. *Historical Topographic Maps*, *USGS 7.5-Minute Series, New Braunfels West, Texas Quadrangle*) dated 1916, 1925, 1958, 1973, 1988, and 2013.

- 2018. *Historical Aerial Photographs.* dated: 1938, 1952, 1958, 1969, 1976, 1987, 1995, 2004, 2005, 2008, 2010, 2012, 2014, 2016

Texas A&M Forest Service. 2008. Texas Ecoregions: Blackland Prairie. http://texastreeid.tamu.edu/content/texasecoregions/BlacklandPrairies/ (Accessed August 7, 2018).

Texas Parks and Wildlife Department (TPWD). 1984. Map Publication: *The Vegetation Types of Texas*. https://tpwd.texas.gov/publications/pwdpubs/media/pwd_mp_e0100_1070n_34.pdf. (Accessed August 7, 2018)

Texas Parks and Wildlife Department (TPWD). 2011. Map Publication: *Gould Ecoregions of Texas*. http://www.tpwd.state.tx.us/landwater/land/maps/gis/map_downloads/map_gallery/bio/ (Accessed August 7, 2018).

U.S. Army Corps of Engineers (USACE). 1987. *Corps of Engineers Wetlands Delineation Manual,* by Environmental Laboratory. Wetlands Research Program Technical Report Y-87-1 (on-line edition). Washington, DC.

U.S. Army Corps of Engineers (USACE). 2005. *Regulatory Guidance Letter No. 05-05: Ordinary High Water Mark Identification*.

U.S. Army Corps of Engineers (USACE). 2007. *U.S. Army Corps of Engineers Jurisdictional Determination Form Instructional Guidebook.*

U.S. Army Corps of Engineers (USACE). 2010. *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Great Plains Region (Version 2.0).* Washington, DC.

U.S. Department of Agriculture (USDA). 2018. Web Soil Survey. http://websoilsurvey.nrcs.usda.gov (Accessed August 7, 2018).

U.S. Fish and Wildlife Service (USFWS). 1979. Classification of Wetlands and Deepwater Habitats of the United States.

U.S. Fish and Wildlife Service (USFWS). 2018. *National Wetlands Inventory (NWI) Mapper*. https://www.fws.gov/wetlands/data/mapper.html. (Accessed August 7, 2018)

6.0 ACRONYMS

CWA	Clean Water Act
FEMA	Federal Emergency Management Agency
LF	Linear Feet
Non-RPW	Non-Relatively Permanent Waters
NRCS	Natural Resources Conservation Service
NWI	National Wetlands Inventory
OHWM	Ordinary High Water Mark
RGL	Regulatory Guidance Letter
RKEI	Raba Kistner Environmental, Inc.
RPW	Relatively Permanent Water
TNW	Traditionally Navigable Water
TPWD	Texas Parks and Wildlife Department
USACE	U.S. Army Corps of Engineers
USDA	U.S. Department of Agriculture
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
WOUS	Waters of the United States

Figures



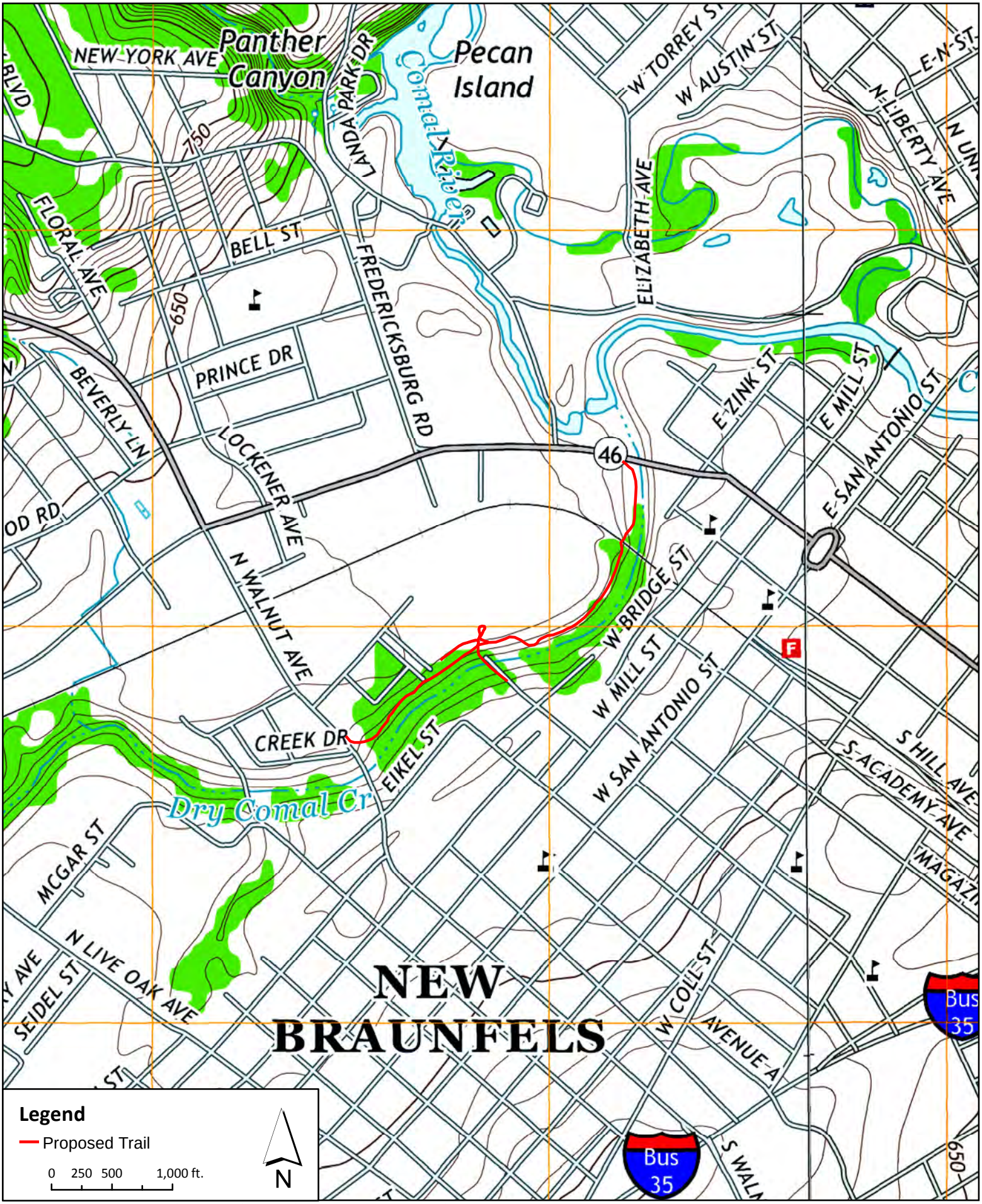
SOURCE: Aerial Photograph Obtained from Google Earth Pro - 2018

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PROJECT LOCATION MAP

DRY COMAL CREEK HIKE AND BIKE TRAIL
New Braunfels, Comal County, Texas

FIGURE 1



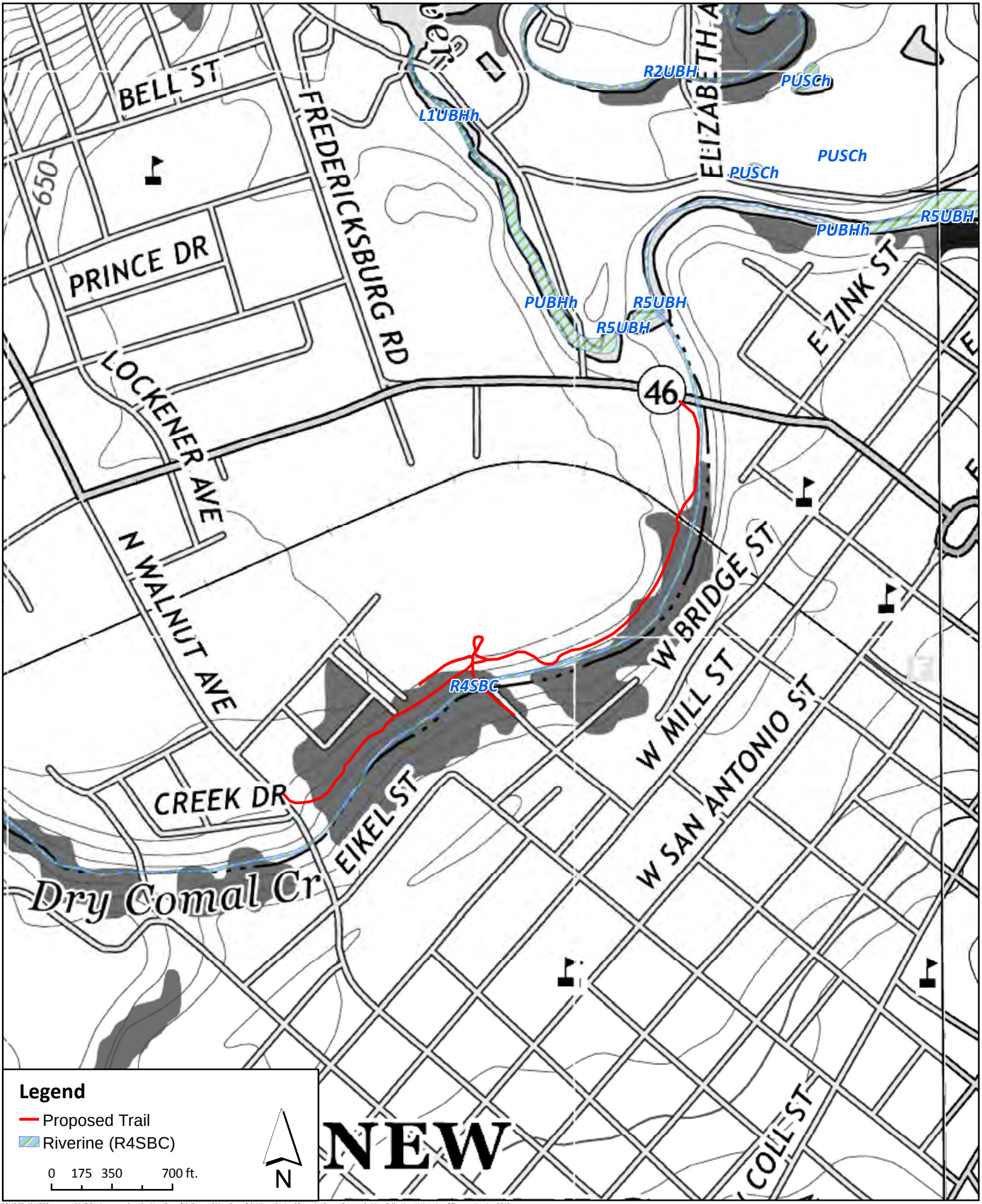
SOURCE: USGS Topographic 7.5 Minute Quadrangles New Braunfels East and New Braunfels West Obtained from the Perry -Casteneda Map Collection, University of Texas at Austin - 2013

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USGS TOPOGRAPHIC MAP

DRY COMAL CREEK HIKE AND BIKE TRAIL
New Braunfels, Comal County, Texas

FIGURE 2



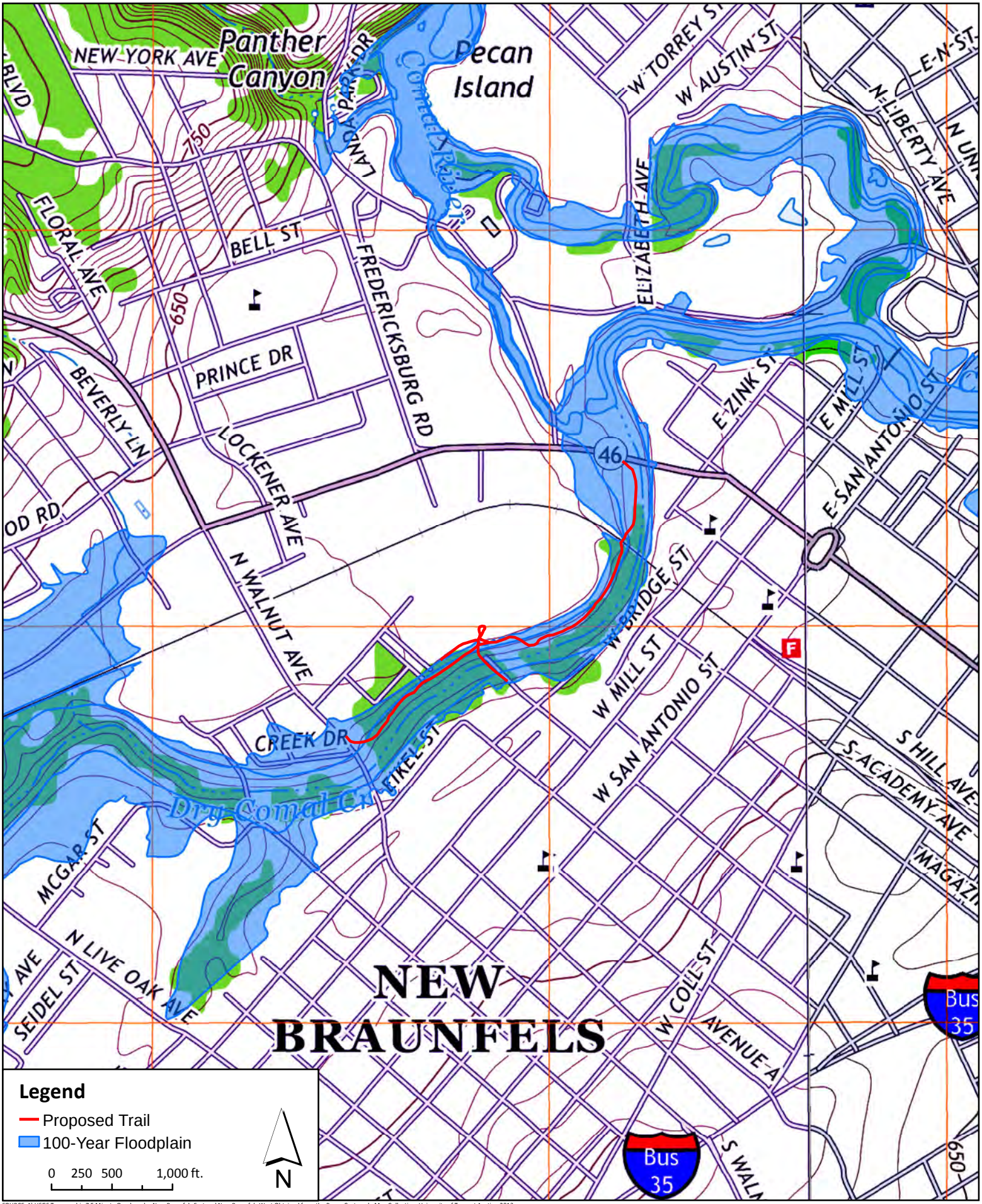
SOURCE: 1) USGS topographic 7.5 minute quadrangles New Braunfels East and New Braunfels West obtained from the Perry -Casteneda Map Collection, University of Texas at Austin - 2013
2) National Wetland Inventory (NWI) data obtained from the United States Fish & Wildlife Service (USFWS) - 2018

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NATIONAL WETLANDS INVENTORY MAP

DRY COMAL CREEK HIKE AND BIKE TRAIL
New Braunfels, Comal County, Texas

FIGURE 3

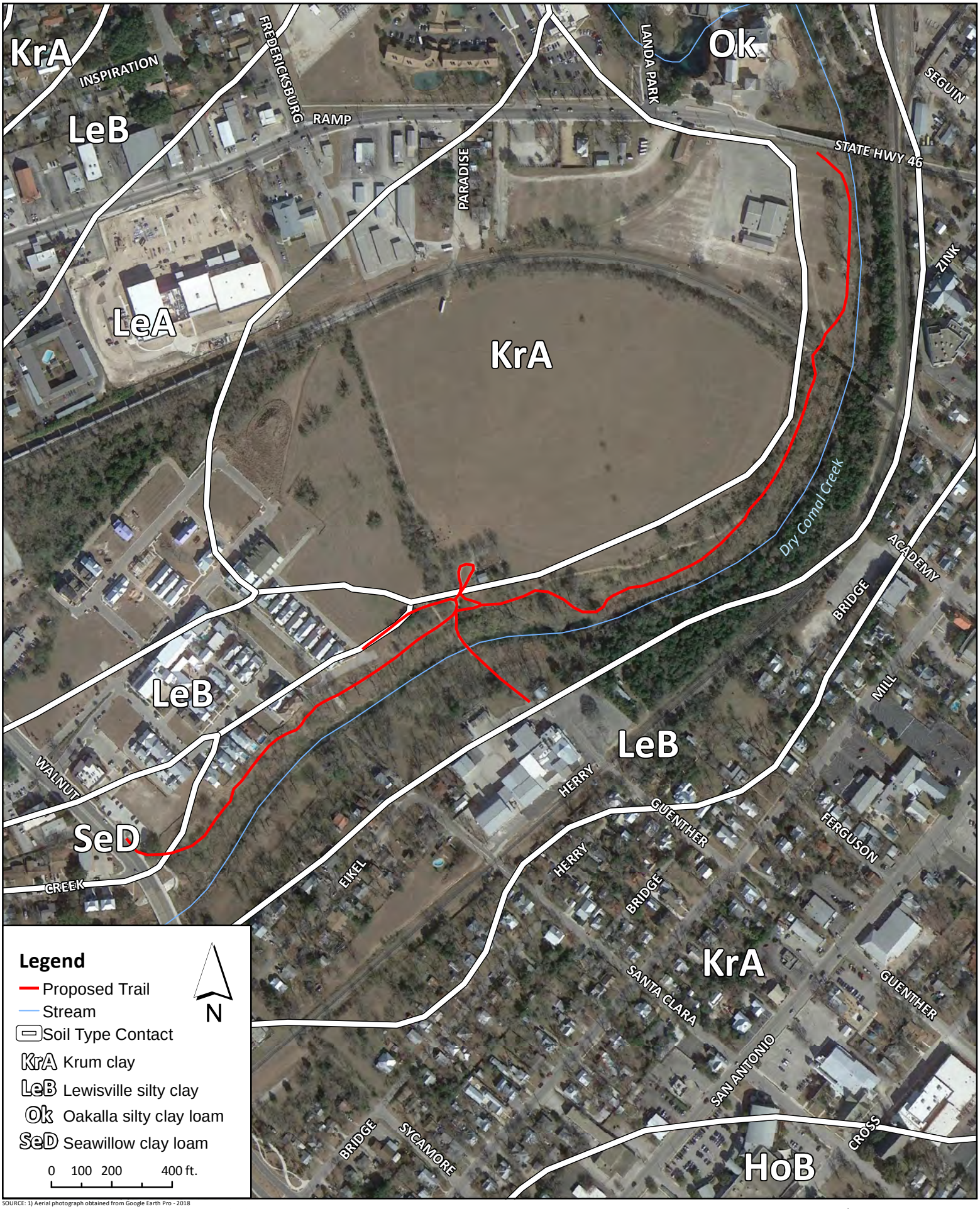


SOURCE: 1) USGS Topographic 7.5 Minute Quadrangles New Braunfels East and New Braunfels West Obtained from the Perry -Casteneda Map Collection, University of Texas at Austin - 2013
2) 100-year floodplain data obtained from FEMA panel no. 48091C0435F - 2010

RABA KISTNER
50 YEARS
Building Better Tomorrows

FEMA FLOODPLAIN MAP
DRY COMAL CREEK HIKE AND BIKE TRAIL
New Braunfels, Comal County, Texas

FIGURE 4



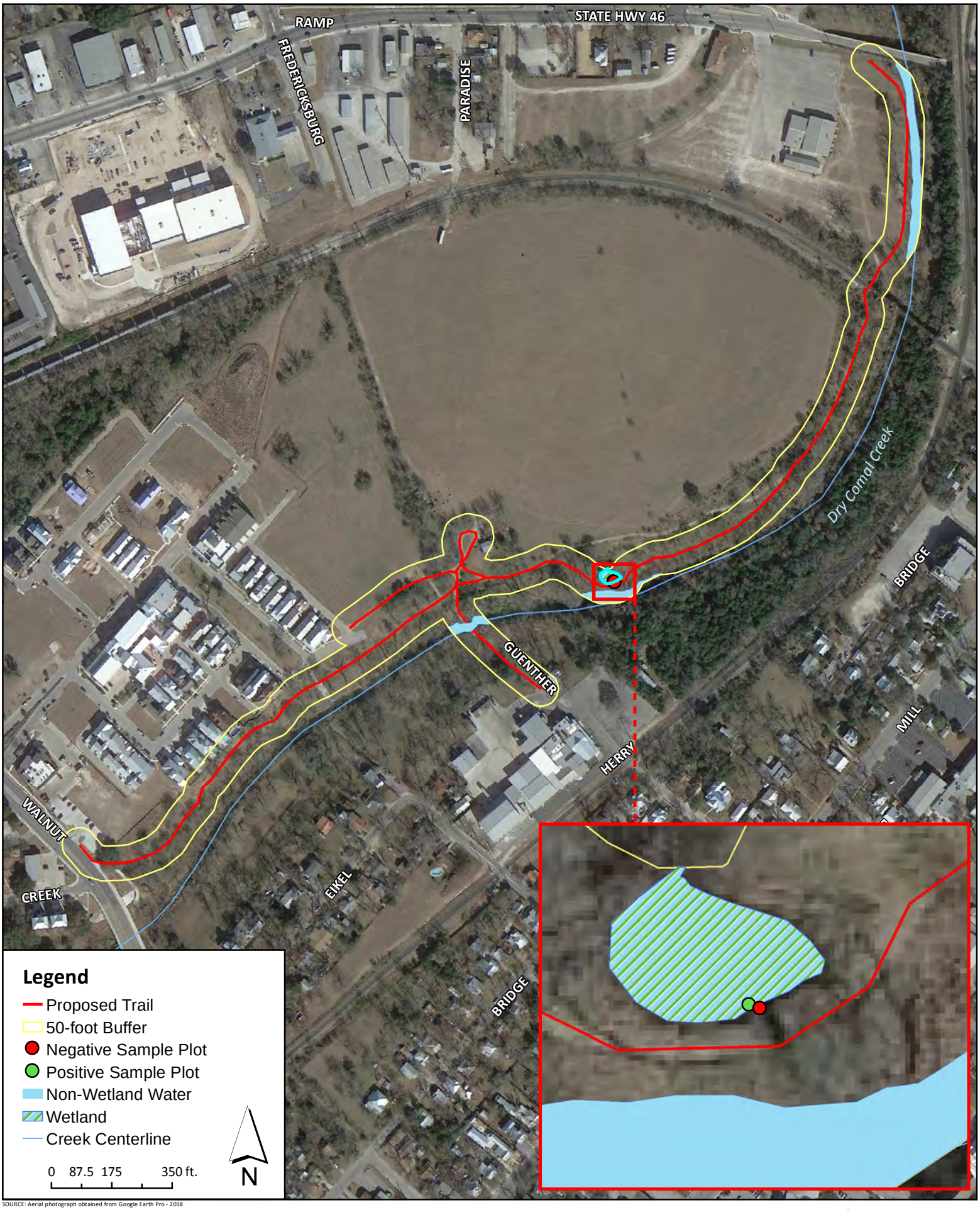
SOURCE: 1) Aerial photograph obtained from Google Earth Pro - 2018
2) USDA soils data obtained from Natural Resources Conservation Service (NRCS) - 2004

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50 YEARS
Building Better Tomorrows

SOILS MAP

DRY COMAL CREEK HIKE AND BIKE TRAIL
New Braunfels, Comal County, Texas

FIGURE 5



SOURCE: Aerial photograph obtained from Google Earth Pro - 2018

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50 YEARS
Building Better Tomorrows

POTENTIAL WATERS OF THE U.S.

DRY COMAL CREEK HIKE AND BIKE TRAIL
New Braunfels, Comal County, Texas

FIGURE 6

Appendix A

Historical Topographic Maps

Historical Topographic Maps

NEW: *GeoLens by Geosearch*

Target Property:

Dry Comal Hike and Bike Trail

New Braunfels, Comal, Texas 78130

Prepared For:

Raba Kistner Environmental-San Antonio

Order #: 111976
Job #: 248571
Project #: ASF18-097-00
Date: 7/26/2018

Target Property Summary

Dry Comal Hike and Bike Trail

New Braunfels, Comal, Texas 78130

USGS Quadrangle: ***NEW BRAUNFELS WEST***
Target Property Geometry: ***Corridor***

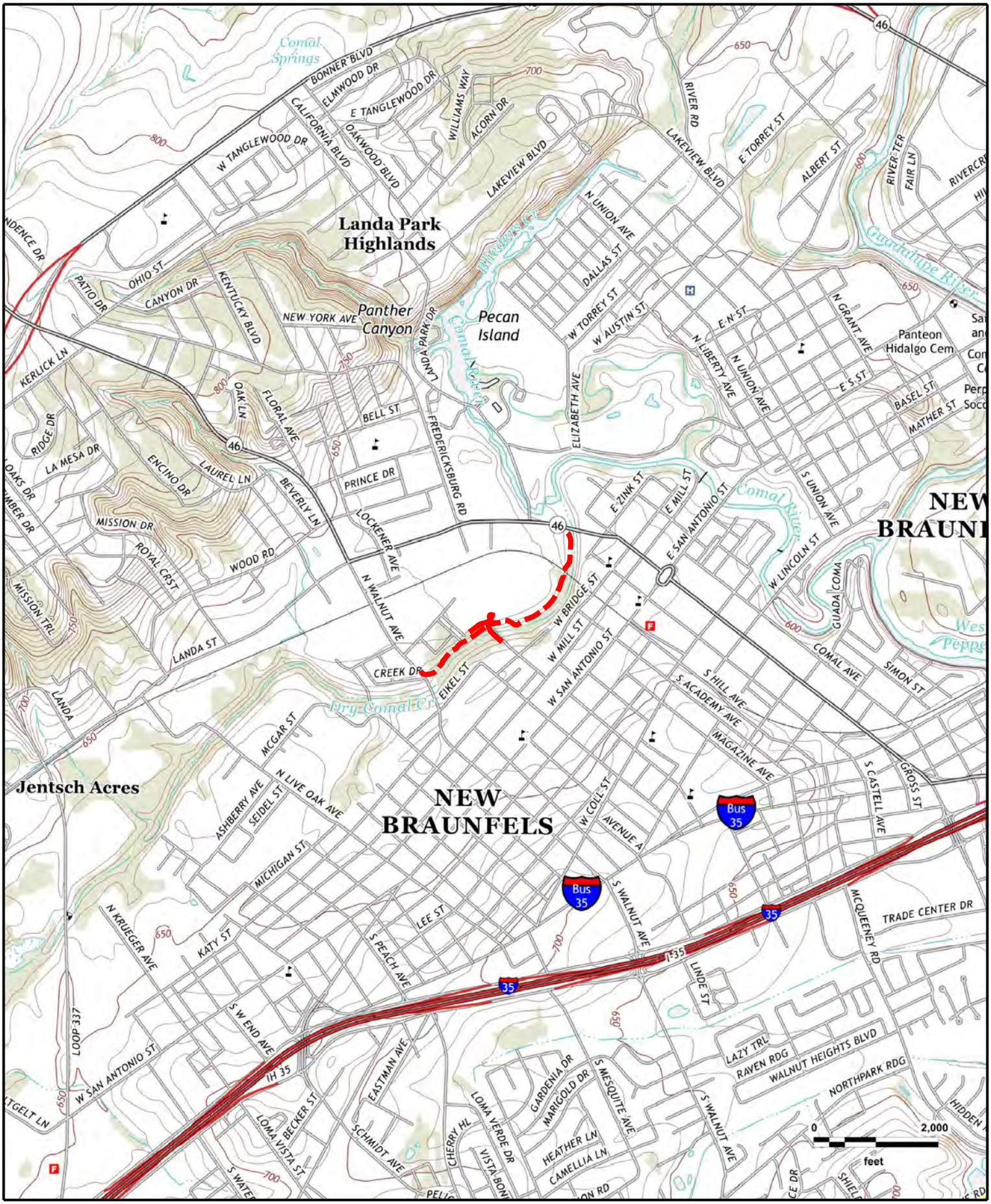
Target Property Longitude(s)/Latitude(s):

(-98.136996000, 29.698771000), (-98.136883000, 29.698648000), (-98.136777000, 29.698615000), (-98.136618000, 29.698624000), (-98.136507000, 29.698634000), (-98.136310000, 29.698696000), (-98.136178000, 29.698788000), (-98.136047000, 29.698957000), (-98.135902000, 29.699104000), (-98.135868000, 29.699210000), (-98.135782000, 29.699287000), (-98.135663000, 29.699427000), (-98.135569000, 29.699526000), (-98.135506000, 29.699597000), (-98.135404000, 29.699669000), (-98.135293000, 29.699718000), (-98.135211000, 29.699744000), (-98.135163000, 29.699794000), (-98.135115000, 29.699855000), (-98.135002000, 29.699960000), (-98.134902000, 29.700010000), (-98.134769000, 29.700064000), (-98.134590000, 29.700155000), (-98.134256000, 29.700340000), (-98.134043000, 29.700482000), (-98.133929000, 29.700562000), (-98.133720000, 29.700679000), (-98.133561000, 29.700785000), (-98.133531000, 29.700830000), (-98.133523000, 29.700878000), (-98.133537000, 29.700915000), (-98.133591000, 29.700930000), (-98.133927000, 29.700840000), (-98.134035000, 29.700795000), (-98.134218000, 29.700669000), (-98.134381000, 29.700565000), (-98.134512000, 29.700480000), (-98.134353000, 29.700589000), (-98.134206000, 29.700683000), (-98.134045000, 29.700793000), (-98.133929000, 29.700844000), (-98.133593000, 29.700935000), (-98.133545000, 29.700927000), (-98.133495000, 29.700980000), (-98.133481000, 29.701015000), (-98.133481000, 29.701063000), (-98.133499000, 29.701115000), (-98.133505000, 29.701172000), (-98.133485000, 29.701229000), (-98.133424000, 29.701250000), (-98.133354000, 29.701234000), (-98.133352000, 29.701198000), (-98.133382000, 29.701145000), (-98.133441000, 29.701037000), (-98.133491000, 29.700982000), (-98.133435000, 29.700930000), (-98.133342000, 29.700904000), (-98.133284000, 29.700887000), (-98.133286000, 29.700866000), (-98.133346000, 29.700847000), (-98.133429000, 29.700838000), (-98.133529000, 29.700823000), (-98.133561000, 29.700780000), (-98.133543000, 29.700693000), (-98.133507000, 29.700596000), (-98.133428000, 29.700498000), (-98.133230000, 29.700327000), (-98.133057000, 29.700190000), (-98.132771000, 29.699986000), (-98.133059000, 29.700197000), (-98.133338000, 29.700427000), (-98.133431000, 29.700510000), (-98.133503000, 29.700596000), (-98.133541000, 29.700698000), (-98.133555000, 29.700778000), (-98.133529000, 29.700818000), (-98.133465000, 29.700825000), (-98.133435000, 29.700833000), (-98.133358000, 29.700842000), (-98.133288000, 29.700859000), (-98.133278000, 29.700875000), (-98.133065000, 29.700883000), (-98.132822000, 29.700949000), (-98.132709000, 29.701003000), (-98.132578000, 29.700989000), (-98.132407000, 29.700916000), (-98.132295000, 29.700838000), (-98.132212000, 29.700800000), (-98.132069000, 29.700804000), (-98.131991000, 29.700847000), (-98.131953000, 29.700916000), (-98.131870000, 29.700961000), (-98.131706000, 29.701021000), (-98.131354000, 29.701134000), (-98.131143000, 29.701232000), (-98.131109000, 29.701248000), (-98.130904000, 29.701396000), (-98.130788000, 29.701488000), (-98.130573000, 29.701623000),

Topographic Map Summary

Date	Quadrangle	Scale
2013	New Braunfels West, TX (2013)	1" = 2000'
	New Braunfels East, TX (2013)	
1988	New Braunfels West, TX	1" = 2000'
1958 PHOTOREVISED 1973	New Braunfels West, TX	1" = 2000'
1958	New Braunfels West, TX	1" = 2000'
1925	New Braunfels, TX	1" = 5208'
1916	New Braunfels, TX	1" = 5208'

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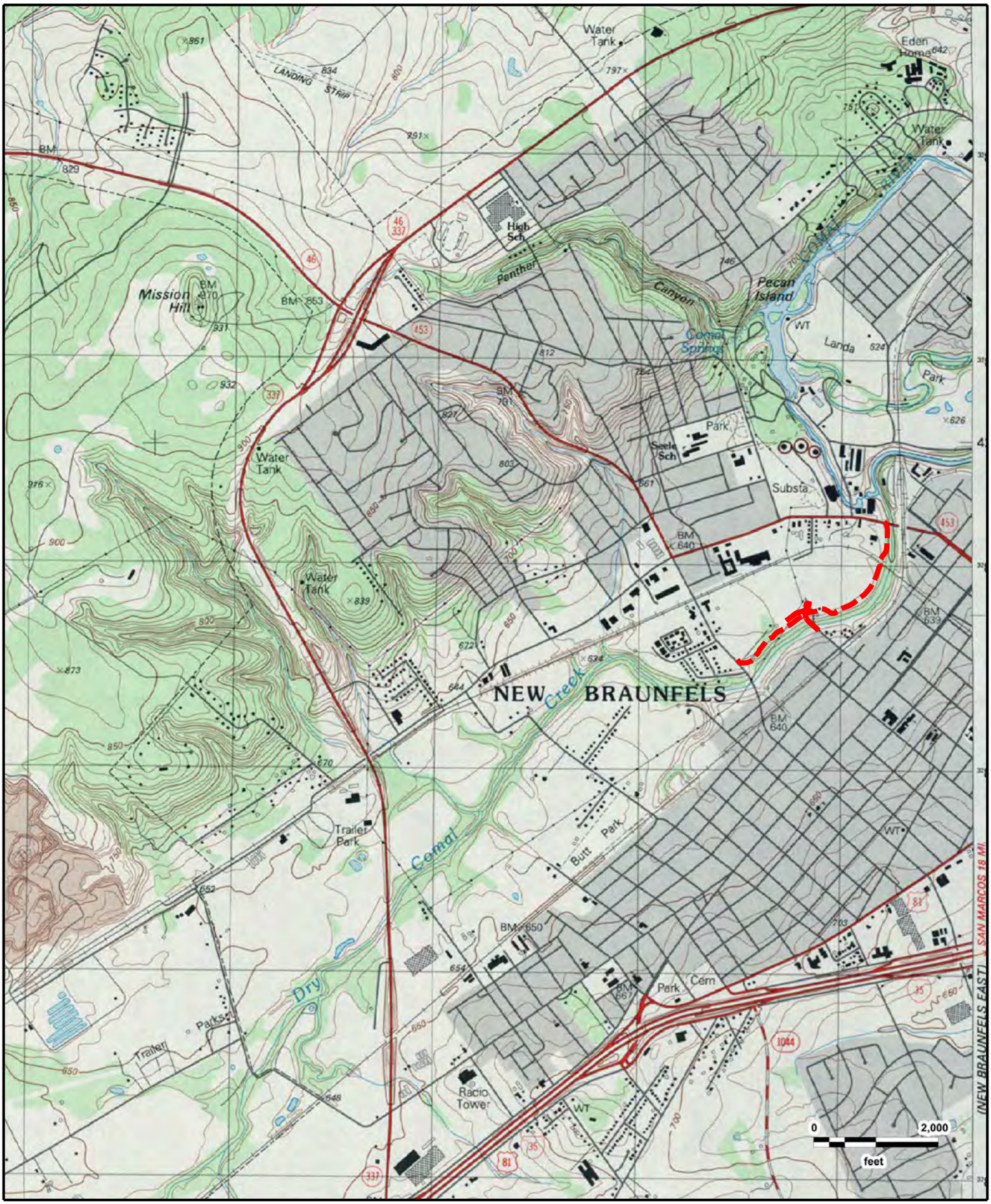


N
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Dry Comal Hike and Bike Trail
New Braunfels West, TX (2013), New Braunfels East, TX (2013)

GeoSearch

JOB #: 248571 - 07/26/2018

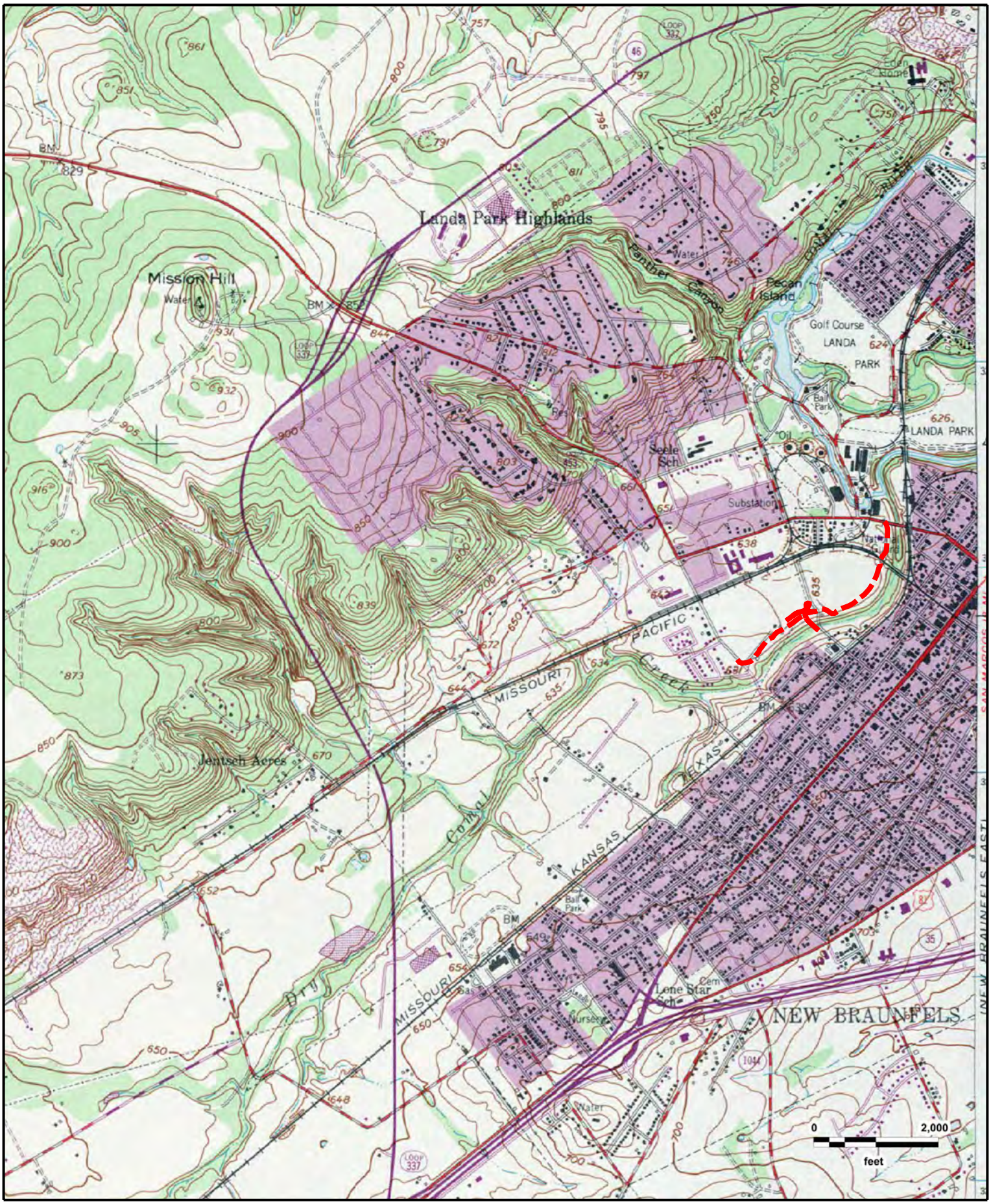


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Dry Comal Hike and Bike Trail
New Braunfels West, TX (1988)

GeoSearch

JOB #: 248571 - 07/26/2018

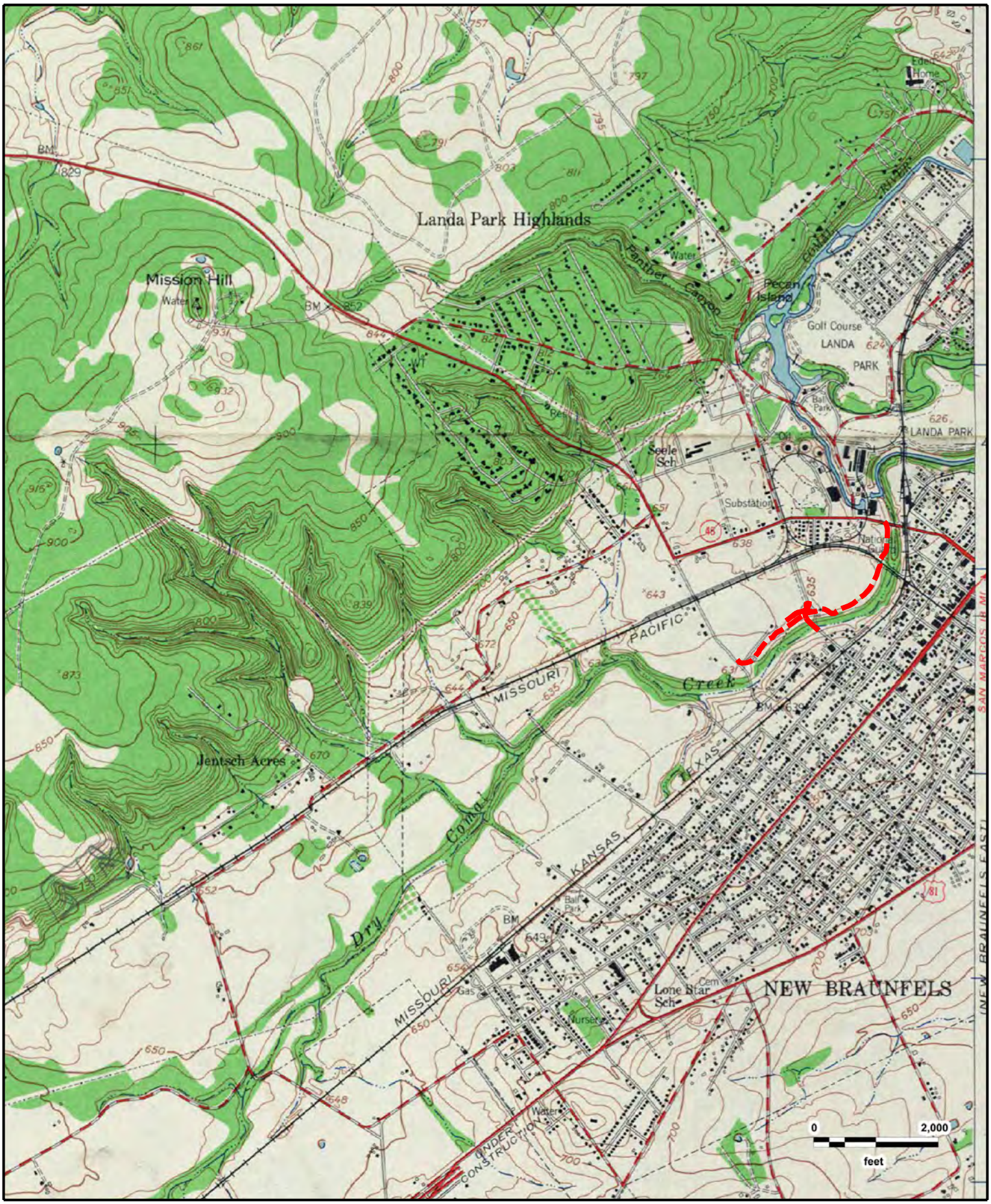


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Dry Comal Hike and Bike Trail
New Braunfels West, TX (1973)

GeoSearch

JOB #: 248571 - 07/26/2018

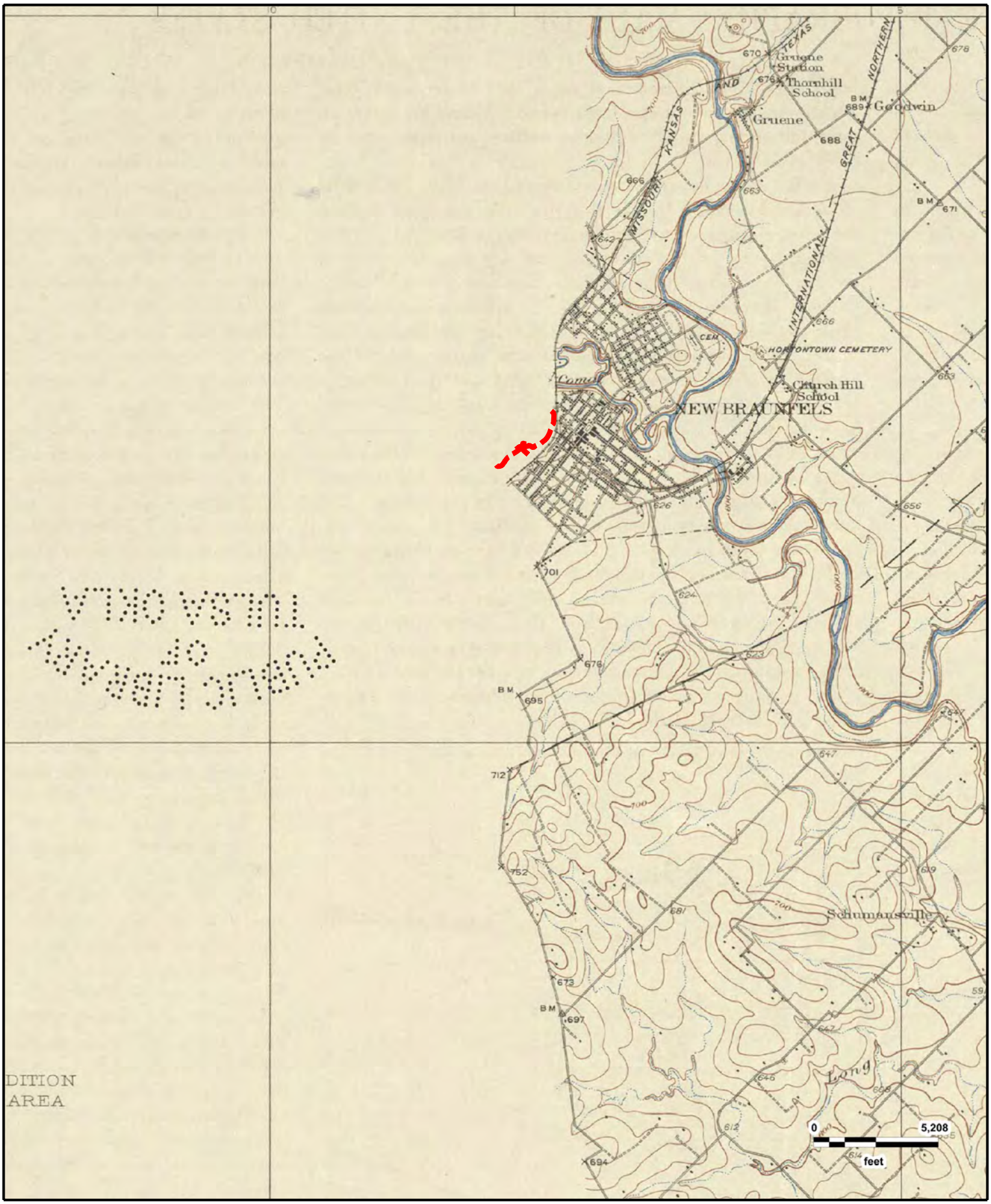


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Dry Comal Hike and Bike Trail
New Braunfels West, TX (1958)

GeoSearch

JOB #: 248571 - 07/26/2018

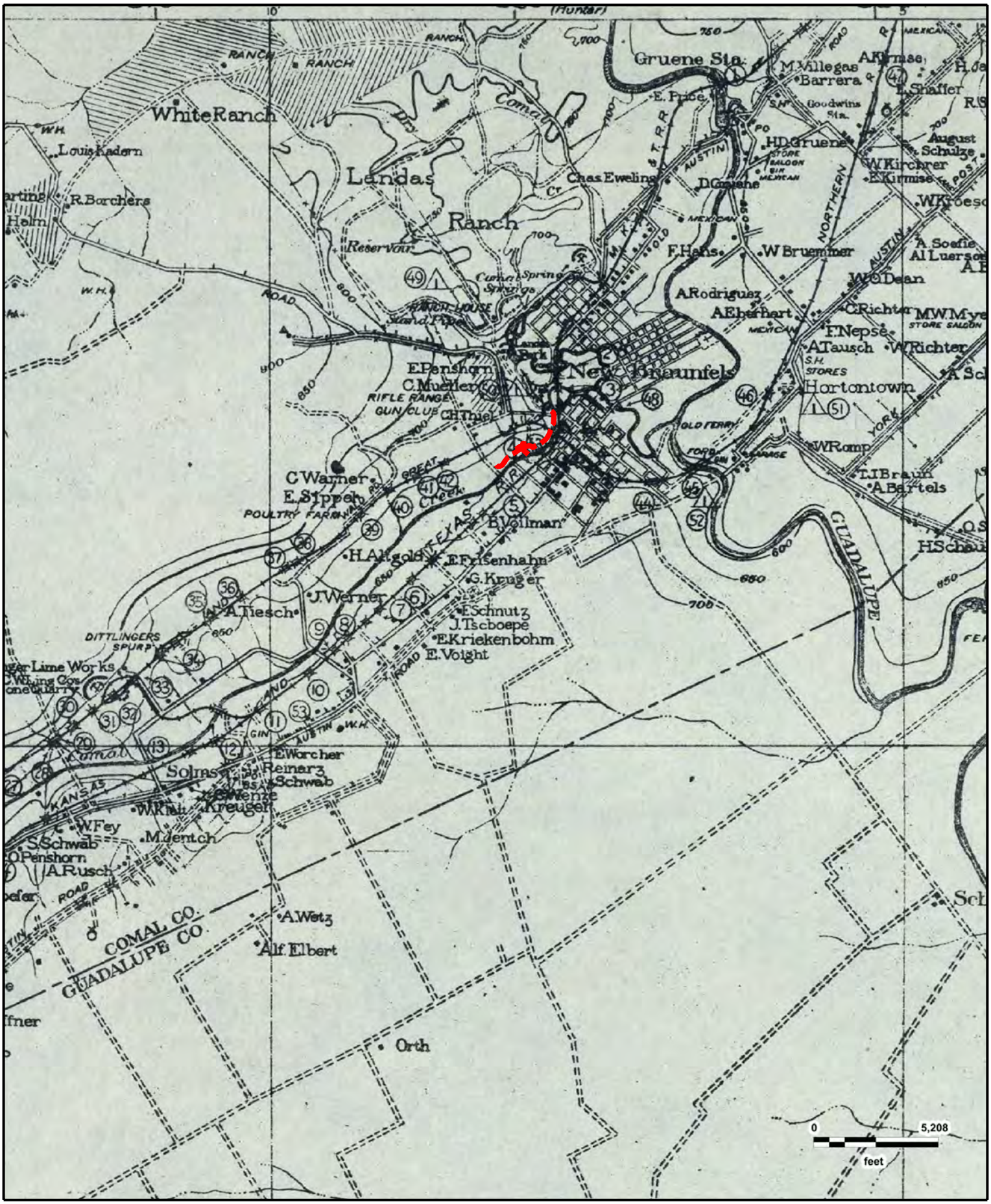


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Dry Comal Hike and Bike Trail
New Braunfels, TX (1925)

GeoSearch

JOB #: 248571 - 07/26/2018



N
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Dry Comal Hike and Bike Trail
New Braunfels, TX (1916)

GeoSearch

JOB #: 248571 - 07/26/2018

Appendix B

Historical Aerial Photographs

Historical Aerial Photographs

NEW: *GeoLens by Geosearch*

Target Property:

Dry Comal Hike and Bike Trail

New Braunfels, Comal, Texas 78130

Prepared For:

Raba Kistner Environmental-San Antonio

Order #: 111976
Job #: 248572
Project #: ASF18-097-00
Date: 7/26/2018

Target Property Summary

Dry Comal Hike and Bike Trail

New Braunfels, Comal, Texas 78130

USGS Quadrangle: ***NEW BRAUNFELS WEST***
Target Property Geometry: ***Corridor***

Target Property Longitude(s)/Latitude(s):

(-98.136996000, 29.698771000), (-98.136883000, 29.698648000), (-98.136777000, 29.698615000), (-98.136618000, 29.698624000), (-98.136507000, 29.698634000), (-98.136310000, 29.698696000), (-98.136178000, 29.698788000), (-98.136047000, 29.698957000), (-98.135902000, 29.699104000), (-98.135868000, 29.699210000), (-98.135782000, 29.699287000), (-98.135663000, 29.699427000), (-98.135569000, 29.699526000), (-98.135506000, 29.699597000), (-98.135404000, 29.699669000), (-98.135293000, 29.699718000), (-98.135211000, 29.699744000), (-98.135163000, 29.699794000), (-98.135115000, 29.699855000), (-98.135002000, 29.699960000), (-98.134902000, 29.700010000), (-98.134769000, 29.700064000), (-98.134590000, 29.700155000), (-98.134256000, 29.700340000), (-98.134043000, 29.700482000), (-98.133929000, 29.700562000), (-98.133720000, 29.700679000), (-98.133561000, 29.700785000), (-98.133531000, 29.700830000), (-98.133523000, 29.700878000), (-98.133537000, 29.700915000), (-98.133591000, 29.700930000), (-98.133927000, 29.700840000), (-98.134035000, 29.700795000), (-98.134218000, 29.700669000), (-98.134381000, 29.700565000), (-98.134512000, 29.700480000), (-98.134353000, 29.700589000), (-98.134206000, 29.700683000), (-98.134045000, 29.700793000), (-98.133929000, 29.700844000), (-98.133593000, 29.700935000), (-98.133545000, 29.700927000), (-98.133495000, 29.700980000), (-98.133481000, 29.701015000), (-98.133481000, 29.701063000), (-98.133499000, 29.701115000), (-98.133505000, 29.701172000), (-98.133485000, 29.701229000), (-98.133424000, 29.701250000), (-98.133354000, 29.701234000), (-98.133352000, 29.701198000), (-98.133382000, 29.701145000), (-98.133441000, 29.701037000), (-98.133491000, 29.700982000), (-98.133435000, 29.700930000), (-98.133342000, 29.700904000), (-98.133284000, 29.700887000), (-98.133286000, 29.700866000), (-98.133346000, 29.700847000), (-98.133429000, 29.700838000), (-98.133529000, 29.700823000), (-98.133561000, 29.700780000), (-98.133543000, 29.700693000), (-98.133507000, 29.700596000), (-98.133428000, 29.700498000), (-98.133230000, 29.700327000), (-98.133057000, 29.700190000), (-98.132771000, 29.699986000), (-98.133059000, 29.700197000), (-98.133338000, 29.700427000), (-98.133431000, 29.700510000), (-98.133503000, 29.700596000), (-98.133541000, 29.700698000), (-98.133555000, 29.700778000), (-98.133529000, 29.700818000), (-98.133465000, 29.700825000), (-98.133435000, 29.700833000), (-98.133358000, 29.700842000), (-98.133288000, 29.700859000), (-98.133278000, 29.700875000), (-98.133065000, 29.700883000), (-98.132822000, 29.700949000), (-98.132709000, 29.701003000), (-98.132578000, 29.700989000), (-98.132407000, 29.700916000), (-98.132295000, 29.700838000), (-98.132212000, 29.700800000), (-98.132069000, 29.700804000), (-98.131991000, 29.700847000), (-98.131953000, 29.700916000), (-98.131870000, 29.700961000), (-98.131706000, 29.701021000), (-98.131354000, 29.701134000), (-98.131143000, 29.701232000), (-98.131109000, 29.701248000), (-98.130904000, 29.701396000), (-98.130788000, 29.701488000), (-98.130573000, 29.701623000),

Aerial Research Summary

Date	Source	Scale	Frame
2016	USDA	1" = 500'	N/A
2014	USDA	1" = 500'	N/A
2012	USDA	1" = 500'	N/A
2010	USDA	1" = 500'	N/A
2008	USDA	1" = 500'	N/A
2005	USDA	1" = 500'	N/A
2004	USDA	1" = 500'	N/A
01/14/1995	USGS	1" = 500'	N/A
04/28/1987	TXDOT	1" = 500'	29
09/23/1976	TXDOT	1" = 500'	250
11/13/1969	ASCS	1" = 1000'	PI-5
02/01/1958	ASCS	1" = 500'	2-163
12/12/1952	AMS	1" = 500'	790
11/20/1938	ASCS	1" = 500'	9-9

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N
W E
S

Dry Comal Hike and Bike Trail
USDA
2016

GeoSearch

JOB #: 248572 - 07/26/2018



N
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S

Dry Comal Hike and Bike Trail
USDA
2014

GeoSearch

JOB #: 248572 - 07/26/2018



N
W E
S

Dry Comal Hike and Bike Trail
USDA
2012

GeoSearch

JOB #: 248572 - 07/26/2018



N
W E
S

Dry Comal Hike and Bike Trail
USDA
2010

GeoSearch

JOB #: 248572 - 07/26/2018



N
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S

Dry Comal Hike and Bike Trail
USDA
2008

GeoSearch

JOB #: 248572 - 07/26/2018



N
W E
S

Dry Comal Hike and Bike Trail
USDA
2005

GeoSearch

JOB #: 248572 - 07/26/2018

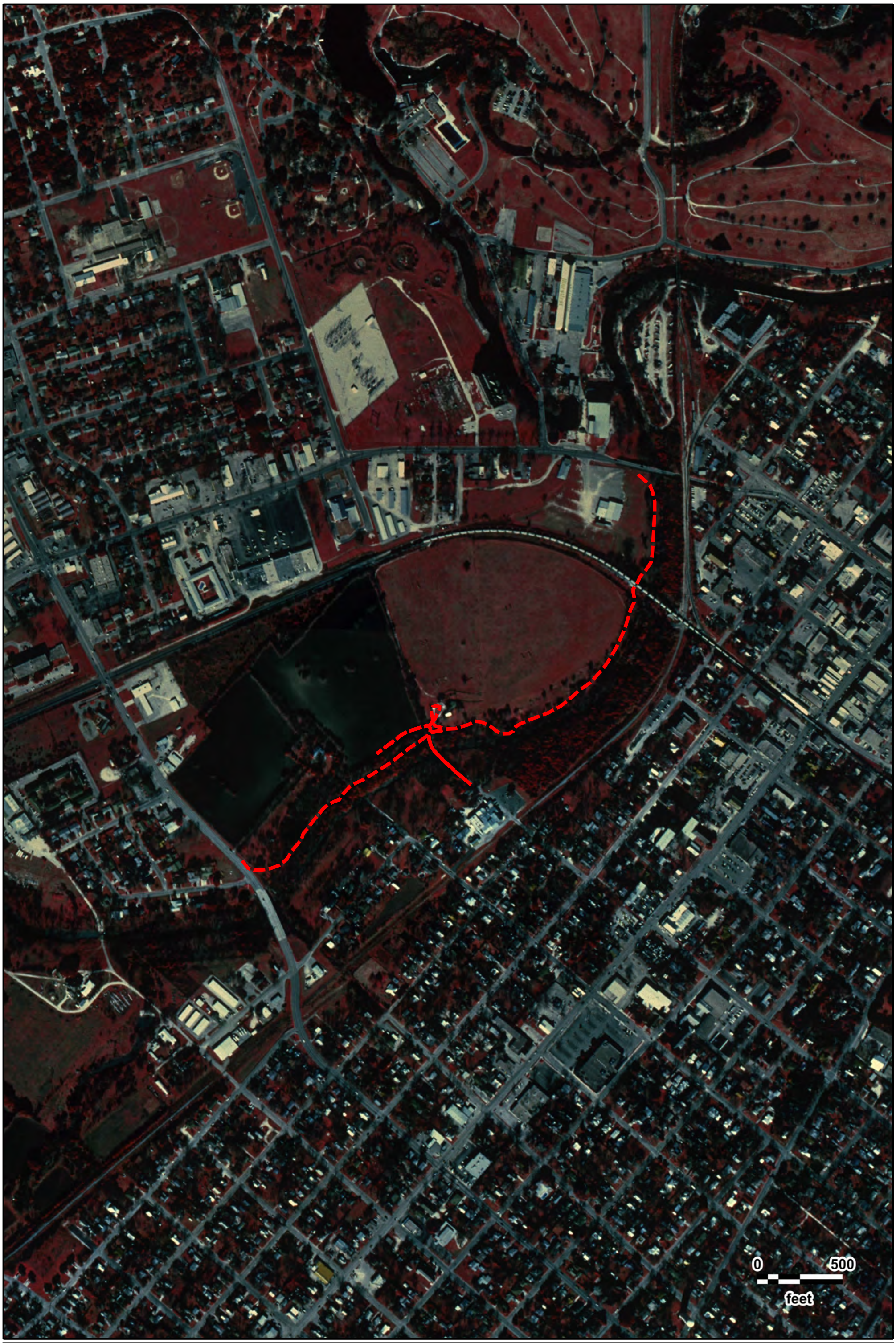


N
W E
S

Dry Comal Hike and Bike Trail
USDA
2004

GeoSearch

JOB #: 248572 - 07/26/2018

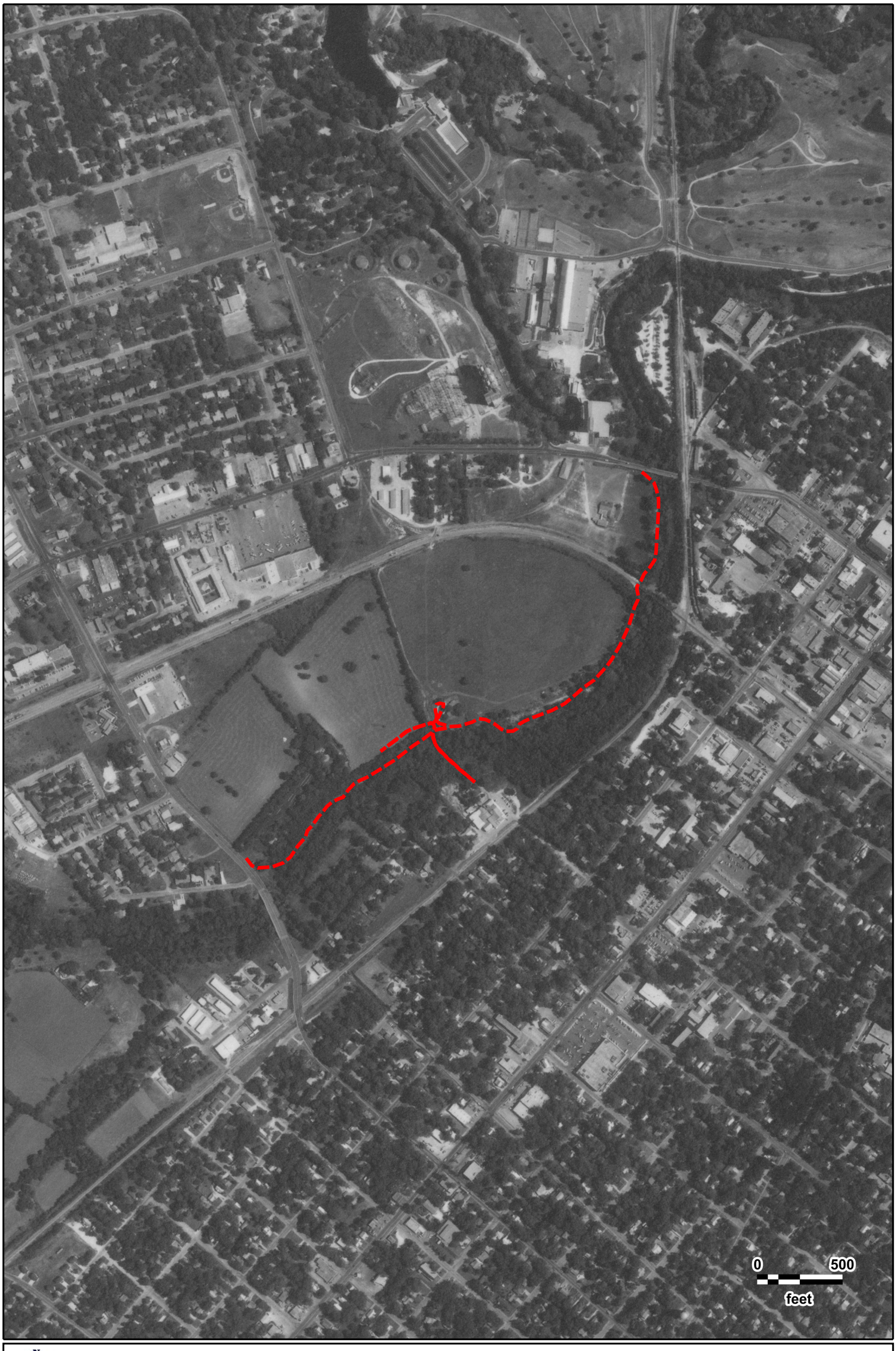


N
W E
S

Dry Comal Hike and Bike Trail
USGS
01/14/1995

GeoSearch

JOB #: 248572 - 07/26/2018



N
W E
S

Dry Comal Hike and Bike Trail
TXDOT
04/28/1987

GeoSearch

JOB #: 248572 - 07/26/2018



N
W E
S

Dry Comal Hike and Bike Trail
TXDOT
09/23/1976

GeoSearch

JOB #: 248572 - 07/26/2018



Dry Comal Hike and Bike Trail
ASCS
11/13/1969

GeoSearch

JOB #: 248572 - 07/26/2018



N
W E
S

Dry Comal Hike and Bike Trail
ASCS
02/01/1958

GeoSearch

JOB #: 248572 - 07/26/2018



N
W E
S

Dry Comal Hike and Bike Trail
AMS
12/12/1952

GeoSearch

JOB #: 248572 - 07/26/2018



N
W E
S

Dry Comal Hike and Bike Trail
ASCS
11/20/1938

GeoSearch

JOB #: 248572 - 07/26/2018

Appendix C

Wetland Determination Data Forms

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: Dry Comal Creek Hike and Bike Trail City/County: New Braunfels, Comal County Sampling Date: 7-30-18

Applicant/Owner: City of New Braunfels State: TX Sampling Point: SP-1

Investigator(s): Nicolas Post Section, Township, Range: N/A

Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): Concave Slope (%): 2%

Subregion (LRR): 86A - Texas Blackland Prairie, Northern Part Lat: 29.700835 Long: -98.132096 Datum: WGS 84

Soil Map Unit Name: Ok - Oakalla silty clay loam NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes Y No _____ (If no, explain in Remarks.)

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes Y No _____

Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X No _____	**Is the Sampled Area within a Wetland?** Yes X No _____
Hydric Soil Present?	Yes X No _____	
Wetland Hydrology Present?	Yes X No _____	

Remarks:

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Salix nigra	20	X	FACW
2. Taxodium distichum	10	X	OBL
3. Ulmus crassifolia	10	X	FAC
4. Prosopis glandulosa	5		FACU
	45.00	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15)			
1. Triadica sebifera	5	X	FAC
2. Senegalia greggii	5	X	UPL
3.			
4.			
5.			
	10.00	= Total Cover	
Herb Stratum (Plot size: 5)			
1. Eichhornia crassipes	30	X	OBL
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	30.00	= Total Cover	
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0.00	= Total Cover	

% Bare Ground in Herb Stratum 70

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC−): 5 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 83.33 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____ (A)	_____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No _____

Remarks:

SOIL

Sampling Point: _____

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Redox Features Type[1]	Redox Features Loc[2]	Texture	Remarks
0-3	10YR 4/2	100					Silty clay	Mix of gravel
3-8	10Y 5GY 3/2	100					Clay	Gley soils; no redox
8-18	10 YR 3/2	100					Sandy clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR F**)
- ___ 1 cm Muck (A9) (**LRR F, G, H**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 2.5 cm Mucky Peat or Peat (S2) (**LRR G, H**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR F**)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ✓ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ High Plains Depressions (F16) (**MLRA 72 & 73 of LRR H**)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR I, J**)
- ___ Coast Prairie Redox (A16) (**LRR F, G, H**)
- ___ Dark Surface (S7) (**LRR G**)
- ___ High Plains Depressions (F16) (**LRR H outside of MLRA 72 & 73**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: Rock

Depth (inches): 8

Hydric Soil Present? Yes _____ No _____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ✓ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Dry-Season Water Table (C2)
- ___ Oxidized Rhizospheres on Living Roots (C3) (**where not tilled**)
- ___ Presence of Reduced Iron (C4)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Oxidized Rhizospheres on Living Roots (C3) (**where tilled**)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)
- ___ Frost-Heave Hummocks (D7) (**LRR F**)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____

Water Table Present? Yes X No _____ Depth (inches): 11"

Saturation Present? (includes capillary fringe) Yes X No _____ Depth (inches): 4"

Wetland Hydrology Present? Yes _____ No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: Dry Comal Creek Hike and Bike Trail City/County: New Braunfels, Comal County Sampling Date: 7-30-18

Applicant/Owner: City of New Braunfels State: TX Sampling Point: SP-2

Investigator(s): Nicolas Post Section, Township, Range: N/A

Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): Concave Slope (%): 1%

Subregion (LRR): 86A - Texas Blackland Prairie, Northern Part Lat: 29.700832 Long: -98.132087 Datum: WGS 84

Soil Map Unit Name: Ok - Oakalla silty clay loam NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes Y No _____ (If no, explain in Remarks.)

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes Y No _____

Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X No _____	**Is the Sampled Area within a Wetland?** Yes _____ No X
Hydric Soil Present?	Yes _____ No X	
Wetland Hydrology Present?	Yes X No _____	

Remarks:

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Salix nigra	15	X	FACW
2. Taxodium distichum	20	X	OBL
3. Ulmus crassifolia	5		FAC
4. Prosopis glandulosa	5		FACU
	45.00	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15)			
1. Triadica sebifera	5	X	FAC
2. Senegalia greggii	5	X	UPL
3.			
4.			
5.			
	10.00	= Total Cover	
Herb Stratum (Plot size: 5)			
1. Cyperus eragrostis	10	X	FACW
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	10.00	= Total Cover	
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0.00	= Total Cover	

% Bare Ground in Herb Stratum 90

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC−): 4 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 80.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____ (A)	_____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No _____

Remarks:

SOIL

Sampling Point: SP-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Redox Features Type[1]	Redox Features Loc[2]	Texture	Remarks
0-3	10YR 4/2	100					Silty clay	Some gravel mixed in.
3-16	10YR 3/2	100					Clay	rocks at 16"

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR F**)
- ___ 1 cm Muck (A9) (**LRR F, G, H**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 2.5 cm Mucky Peat or Peat (S2) (**LRR G, H**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR F**)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ High Plains Depressions (F16) (**MLRA 72 & 73 of LRR H**)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR I, J**)
- ___ Coast Prairie Redox (A16) (**LRR F, G, H**)
- ___ Dark Surface (S7) (**LRR G**)
- ___ High Plains Depressions (F16) (**LRR H outside of MLRA 72 & 73**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: Rock

Depth (inches): 16

Hydric Soil Present? **Yes** ____ **No** X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ✓ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
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- ___ Hydrogen Sulfide Odor (C1)
- ___ Dry-Season Water Table (C2)
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- ___ Presence of Reduced Iron (C4)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Oxidized Rhizospheres on Living Roots (C3) (**where tilled**)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)
- ___ Frost-Heave Hummocks (D7) (**LRR F**)

Field Observations:

Surface Water Present? Yes ____ No X Depth (inches): ____

Water Table Present? Yes ____ No X Depth (inches): ____

Saturation Present? (includes capillary fringe) Yes X No ____ Depth (inches): 9"

Wetland Hydrology Present? **Yes** X **No** ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Appendix D

Additional Site Photographs



Photo 1. Viewing Dry Comal Creek from eastern end of Review Area.



Photo 2. Viewing the Wetland area on the northern side of Dry Comal Creek. View is to the south.

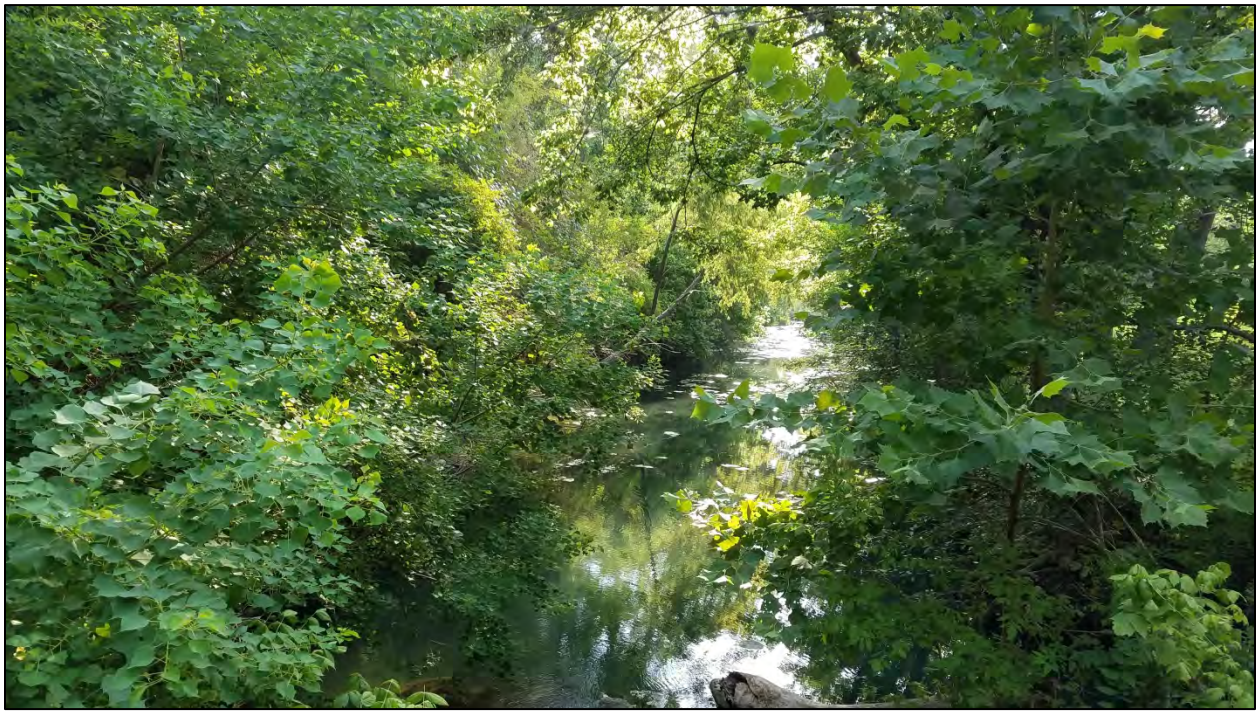


Photo 3. Viewing downstream to the east along Dry Comal Creek from the North Guenther Avenue Bridge in the central portion of the Review Area.