



The City Of  
**San Angelo, Texas**  
P.O. Box 1751 - Zip 76902

July 7, 2010

Honorable Mike Brown  
County Judge, Tom Green County  
122 W. Harris  
San Angelo, Texas 76903

Re: City of San Angelo Hickory Water Supply Pipeline Project  
Texas Antiquities Permit Application

Dear Judge Brown:

The City of San Angelo is currently in the design phase of a project to construct a 30" water supply pipeline from San Angelo to an existing well field located near the town of Melvin, Texas.

As part of this project, the City is required to perform an archaeological survey of the pipeline route. The City has retained the firm of Sims and Associates to perform this work. To begin the field work, a permit is required from the Texas Historical Commission.

Sims and Associates has prepared the attached application for the work that will be performed under the antiquities permit. The City is the sponsor for the application and is solely responsible for completing all the work and for all costs that may be associated with the permit.

The Texas Historical Commission is requiring, as part of the permit, that the City obtain approval from all public entities that the pipeline route will cross; i.e. state roads, county roads and state river lands.

Consideration and approval of this permit application to by the County will acknowledge and allow for the archaeological survey to be done along the pipeline route across the public property. The City's consultant will perform the work and include its findings in a report for the project.

Preliminary assessments of the pipeline route across public tracts have not identified any significant sites that may be impacted. If during the field survey, any potentially significant cultural resources are discovered on the public tract, that information will be provided to you and consideration will be given to avoiding the site with the proposed pipeline construction or possible mitigation of the site.

Your consideration is requested to approve the permit application as a land owner.

If there are any questions, please contact me at 325-657-4209.

Thank you,

A handwritten signature in black ink, appearing to read "Will Wilde".

Will Wilde  
Water Utilities Director

Enc: Permit Application

# ANTIQUITIES PERMIT APPLICATION FORM ARCHEOLOGY

## GENERAL INFORMATION

### I. PROPERTY TYPE AND LOCATION

Project Name (and/or Site Trinomial) Archaeological Survey of the 65 Mile Hickory Ground Water Development Project in McCulloch, Concho, and Tom Green Counties, TX

County (ies) McCulloch, Concho, and Tom Green

USGS Quadrangle Name and Number Burr Oak Creek (no number available), Callan (no number available), Eden (no number available), Live Oak (3199-223), Needle Creek (3199-211), Pasche (3199-213), San Angelo South (3100-133), Vancourt (3100-142), Veribest (3100-134), Vick (3100-141), and Wall (3100-131)

UTM Coordinates **Central Point** Zone 14 E403000 N 3456950

Location 65 mile water line starting in southwestern McCulloch County, traversing Concho County and terminating in the City of San Angelo, Texas

Federal Involvement  Yes  No

Name of Federal Agency \_\_\_\_\_

Agency Representative \_\_\_\_\_

### II. OWNER (OR CONTROLLING AGENCY)

Owner Tom Green County

Representative Mike Brown, County Judge

Address 122 W Harris

City/State/Zip San Angelo, Texas 76903

Telephone (include area code) 325-653-3318 Email Address \_\_\_\_\_

### III. PROJECT SPONSOR (IF DIFFERENT FROM OWNER)

Sponsor City of San Angelo

Representative Will Wilde, Director Water Utilities

Address P.O. Box 1751

City/State/Zip San Angelo, Texas 76902

Telephone (include area code) (325) 657.4209 Email Address will.wilde@sanangelotexas.us

## PROJECT INFORMATION

### I. PRINCIPAL INVESTIGATOR (ARCHEOLOGIST)

Name David Wilcox, RPA

Affiliation Sims & Associates, LLC.

Address 201 South Lakeline Blvd., Suite 403

City/State/Zip Cedar Park, Texas 78613

Telephone (include area code) (512)996.9299 Email Address david@simsassociates.net

(OVER)  
**ANTIQUITIES PERMIT APPLICATION FORM (CONTINUED)**

II. PROJECT DESCRIPTION

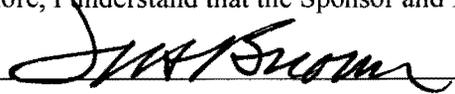
Proposed Starting Date of Fieldwork June 15, 2010  
Requested Permit Duration 1 Year 6 Months (1 year minimum)  
Scope of Work (Provided an Outline of Proposed Work) Sims & Associates, LLC will conduct a background literature review of the project area, perform an intensive archaeological survey and inventory of the project elements, and produce a report of the investigations. Please see the attached Scope of Work provided.

III. CURATION & REPORT

Temporary Curatorial or Laboratory Facility Sims & Associates, LLC (Cedar Park, TX office)  
Permanent Curatorial Facility Texas Archaeological Research Laboratory, Austin, TX

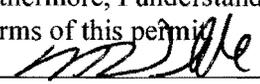
IV. LAND OWNER'S CERTIFICATION

I, Mike Brown, as legal representative of the Land Owner, Tom Green County, do certify that I have reviewed the plans and research design, and that no investigations will be performed prior to the issuance of a permit by the Texas Historical Commission. Furthermore, I understand that the Sponsor and Principal Investigator are responsible for completing the terms of the permit.

Signature  Date 7-20-10

V. SPONSOR'S CERTIFICATION

I, Will Wilde, as legal representative of the Sponsor, the City of San Angelo, Texas, do certify that I have review the plans and research design, and that no investigations will be performed prior to the issuance of a permit by the Texas Historical Commission. Furthermore, I understand that the Sponsor, Owner, and Principal Investigator are responsible for completing the terms of this permit.

Signature  Date July 7, 2010

VI. INVESTIGATOR'S CERTIFICATION

I, David Wilcox, as Principal Investigator employed by Sims & Associates, LLC (Investigative Firm), do certify that I will execute this project according to the submitted plans and research design, and will not conduct any work prior to the issuance of a permit by the Texas Historical Commission. Furthermore, I understand that the Principal Investigator (and the Investigative Firm), as well as the Owner and Sponsor, are responsible for completing the terms of this permit.

Signature \_\_\_\_\_ Date \_\_\_\_\_

Principal Investigator must attach a research design, a copy of the USGS quadrangle showing project boundaries, and any additional pertinent information. Curriculum vita must be on file with the Archeology Division.

**FOR OFFICIAL USE ONLY**

Reviewer \_\_\_\_\_ Date Permit Issues \_\_\_\_\_  
Permit Number \_\_\_\_\_ Permit Expiration Date \_\_\_\_\_  
Type of Permit \_\_\_\_\_ Date Received for Data Entry \_\_\_\_\_

**SCOPE OF WORK FOR A THC ANTIQUITIES PERMIT APPLICATION**  
**ARCHAEOLOGICAL SURVEY OF 65 MILE LONG 30-INCH WATER LINE CORRIDOR**  
**IN MCCULLOCH, CONCHO, AND TOM GREEN COUNTIES, TEXAS**

Project Sponsor - City of San Angelo, TX

Project Consultant - Sims & Associates, LLC.

Principal Investigator - David Wilcox

Date - July 6, 2010

On behalf of the City of San Angelo, Sims & Associates will conduct an intensive linear cultural resources survey of a proposed 65 mile long waterline corridor project in McCulloch, Concho and Tom Green Counties, Texas. The City of San Angelo proposes to construct the Hickory Ground Water Development Project, 65 miles in length 30 inch pipeline within a 100-ft wide right-of-way (ROW), with the purposes of transporting well water from southwestern McCulloch County into the City of San Angelo. The project will cross the Concho River at the intersection with FM 1223 (South Chadbourne Street). A total of sixteen named drainages are crossed by this proposed undertaking. This development will begin at Bee Gum and Willow Tanks in southwestern McCulloch County and extend west-northwest to terminate at the intersection of East Avenue K and Metcalfe Street in the City of San Angelo. The depth of subsurface impacts would be approximately 7-8 ft maximum, resulting from trenching into the existing subsoil and placing the 30 inch pipe within the trench. Nevertheless, 23 sections of this pipeline segment will require crossing county and state roads and the Concho River will also be traversed by either trenching across the river or by boring beneath the waterway. Both methods of crossing the waterway would place the proposed pipeline at 7 feet below the current waterway's lowest depth. The project area traverses undulating uplands, terraces, outwash plains, and flood plains with calcareous, loamy and clayey, to loamy soils, although several drainages are crossed. Although the City of San Angelo is the sole sponsor for the undertaking, numerous other entities have been advised as landowners/managers (i.e., County, State, TxDOT and Texas General Land Office) of this proposed undertaking. Overall, the project Area of Potential Effects (APE) is 65 miles long, 100 feet wide, and maximally 7-8 feet deep. Small segmented portions of the project area has been previously surveyed, however no previously recorded sites are within or adjacent to the project area location. In addition, five previously conducted surveys, one testing project, one excavation, and eight previously recorded sites are within 1 mile of the project area.

Based on a review of the project area soils, geology, recorded archaeological sites, and the results of previously conducted surveys in the area of southwestern McCulloch, southern Concho, and southeastern to central Tom Green Counties (see below), Sims & Associates proposes to conduct an intensive linear pedestrian survey with shovel testing only of the APE. The goal of the work will be to locate all prehistoric and historic archeological sites in the APE, establish vertical and horizontal site boundaries as appropriate with regard to the APE, and evaluate the significance and eligibility of any site recorded in the APE for eligibility for listing

in the National Register of Historic Places and designation as a State Archeological Landmark. All work will be done in accordance with the standards and guidelines of the Antiquities Code of Texas and the National Historic Preservation Act. The overall approach will insure that all project related impacts are investigated thoroughly for their potential to effect cultural resources.

## **SETTING**

Located mostly within the Lipan Flat physiographic landform on the central Edwards Plateau, the project exclusively traverses uplands and upland drainages and tributaries. In this upland topography, however, the Kickapoo Creek and the Concho River has some alluvium mapped along the drainage crossing. Geologically, the Hickory Ground Water Development Project area crosses Permian Clear Fork Group, Cretaceous Antlers Sand, Edwards Group, and Quaternary Playa Deposits, Fluvial terrace deposits, Caliche and gravel deposits, deposits undivided, and Alluvium. The Clear Fork Group is mostly shale with sandy parts and alternating red to bluish green dolomite. Antlers Sand is a mixture of sand, sandstone, conglomerate, siltstone, and local quartzite. The Edwards Group consists of Segovia and Fort Terrett Formations, which are both comprised of cherty limestone with dolomite. Playa Deposits are shallow depressions consisting of clay and silt usually covered by recent sediment deposition. Fluvial terrace deposits consist of gravel, sand, and silt. Caliche and gravel deposits form partly in alluvial flats. Quaternary deposits undivided consist of alluvium associated with silt covered caliche on gently sloping areas. Finally, Alluvium are recent floodplain deposits. The soils traversed by the Hickory Ground Water Development Project are predominately a mosaic of shallow, undulating, clayey and loamy soils, some of which are gravelly and cobbly on uplands, deep nearly level and gently sloping loamy soils on uplands, shallow to deep nearly level calcareous soils on outwash plains, very shallow clayey soils over limestone, to shallow loamy soils formed in old alluvium. The most prevalent soils along the project are Kavett, Oplin, Tarrant, Rowena, Nuvalde, Mereta, Cho, Angelo, Eola, Kimbrough, Rioconcho, and Spur series. Overall, much of these soils along the project area have little to no potential to contain intact, buried archaeological sites. Information on vegetation and previous disturbances beyond roadway construction is not available and will be obtained during the survey of the project APE.

## **PREVIOUS INVESTIGATIONS AND RECORDED SITES**

A Sims & Associates archaeologist conducted a background review and environmental literature search of the project APE to determine the locations and content of any previous archaeological surveys and recorded archaeological sites in or near the project area. The investigation utilized records at the Texas Archeological Research Laboratory (TARL) and the Texas Historical Commission (THC). Site files, relevant maps, and National Register of Historic Places (NRHP) listings were examined. Site locations were plotted on project area maps, and relevant site files and reports were copied.

The background literature review revealed that small segmented portions of the project area has been previously surveyed and that no previously recorded sites are within or adjacent to the project area location. In addition, fourteen previously conducted surveys, three testing project, one excavation, and eight previously recorded sites are within 1 mile of the project area (41TG57, 41TG59, 41TG241, 41TG279, 41TG351, 41TG610, 41TG611, and 41CC298). The main percentage of the project area that has been surveyed and tested is within the City of San Angelo's city limits.

Six of the eight sites found within the 1-mile search radius are located within the City of San Angelo city limits. These sites are 41TG57, 41TG59, 41TG241, 41TG351, 41TG610, and 41TG611. Site 41TG57 (Fort Concho Historic District) was listed into the NRHP in 1966, and is also listed as a National Historic Landmark. Site 41TG59, the Fort Concho Dump Site, associated with the Fort Concho Historic site has no NRHP designation, and was recorded by W. Lees in 1976. Site 41TG241, recorded by J. Jaquier, with no NRHP eligibility is considered to be the remnants of Fort Concho's pump house. Site 41TG351, recorded by S. McCulloch and J. Warren of Archaeology Consultants, Inc. in 1997 under Texas Antiquities Permits 1586 and 1619, consisting of an archaic lithic artifacts and mussel shells located on the western banks of the Conchos River. They performed limited testing for NRHP eligibility on site 41TG351 through trenching of the San Angelo Rio Vista 36-inch Sewer Line project. This site has no NRHP designation. Sites 41TG610, and 41TG611 were encountered on the Texas Parks and Wildlife Department's Concho River Trail project, under Texas Antiquities Permit 4149. Site 41TG610 consisting of lithic flakes, mussel shells and thermally altered rocks with no NRHP designation, was recorded by M. Bradie in 2006. Finally, site 41TG611 is a historic cement structure with no known function was also recorded in 2006 by M. Bradie, and has no NRHP designation.

TRC Mariah Associates performed subsurface investigations for eligibility testing under the supervision of P. Patterson and under Texas Antiquities Permit 1518. This entailed monitoring of a 51.3 meter long backhoe trench within the Fort Concho military complex in 1995. No artifacts were collected. SWCA Environmental Consultants did archival research, and architectural analysis for the San Angelo Visitor's Center project. K. Barile performed the research and analysis under Texas Antiquities Permit 2576 in Fort Concho in 2001. The Texas Park and Wildlife Department conducted a small survey within the fish hatchery complex at San Angelo in 2000. No cultural resources were encountered.

Small discontinuous linear segments associated with highway ROW along the central area of the project area were previously surveyed for the Texas Department of Transportation (TxDOT) in 1975 and 1978 and for the Texas State Department of Highways and Public Transportation (TDHPT) in 1975, 1980, 1981, and 1984. One site was encountered during the TDHPT 1981 survey, which lies well outside the study area. This site (41CC233) recorded by D. Crawford, has no NRHP eligibility or cultural affiliation and consists of a small thermally altered rock midden with a chert lithic scatter. Another linear survey corridor bisects the proposed undertaking; this project was completed in 1988 for the All American Pipeline Company. Four

sites (41TG267, 41TG268, 41TG277 and 41TG279) were recorded, only one of which is within the study area. Site 41TG267 recorded by A. Cloud, consists of a lithic scatter with no NRHP eligibility. 41TG268, also with no NRHP designation and recorded by A. Cloud, consists of a late archaic campsite with bedrock features, hearths, and associated lithic scatter. Site 41TG277, recorded by W. Weaver and A. Hobbs, consists of a lithic scatter with an associated stack of limestone. The site has no NRHP eligibility. Finally, site 41TG279, located within the study area's 1-mile search radius, consists of a thermally altered limestone scatter, and associated chert lithic scatter. This site, recorded by K. Kleinbach, has no NRHP eligibility.

A project along State Highway 83 tested the western portion of the highway ROW, along an unnamed drainage crossing for TxDOT. This project was completed in December of 2005 by Hicks and Company. No further information is available, and no site was encountered. Site 41CC298 (the Margaret Loveless Site), recorded in 2000 by D. Potter, consists of 64 bedrock mortars with associated lithic scatter. The site was designated as a State Archaeological Landmark in 2001; however no NRHP eligibility information pertaining to this site is available. This site was excavated by the Concho Valley Archaeological Society in 2003. This site lies within the 1-mile radius search of the proposed undertaking.

## **ARCHAEOLOGICAL FIELD SURVEY**

Once an Antiquities permit is obtained, Sims & Associates will conduct an intensive archaeological field survey of the 787.8-acre project area. The survey will be of sufficient intensity to determine the nature, extent, and, if possible, significance of any cultural resources located within the proposed project area. The survey will meet all THC minimum archaeological survey standards for such projects with any exceptions thoroughly documented. The field survey will consist of four Sims & Associates archaeologists walking the entire proposed linear project area. During the survey, the archaeologists will be examining the ground surface and erosional profiles for cultural resources. The intensive pedestrian survey will be restricted to the proposed APE and intensive survey with shovel testing will be limited to relatively undisturbed areas within the APE and/or ones that contain soils. Shovel tests will be approximately 30 cm in diameter and excavated in arbitrary levels to 100 cm below surface or culturally sterile deposits, whichever comes first. The matrix from each shovel test will be screened through ¼-inch mesh, and the location of each excavation will be plotted using a hand-held GPS receiver. Each shovel test will be recorded on a standardized form to document the excavations. Shovel tests will be excavated to the depth of project impacts. In the unlikely event that it is found that they cannot adequately explore project impacts in soils with potential to contain buried archaeological materials, backhoe trenches will be considered. Though backhoe trenching is not currently proposed, the need for trenching will be assessed in the field and based on shovel testing results.

If an archaeological site is encountered in the proposed project area during the investigations, it will be explored as much as possible with consideration to land access constraints. Any

discovered sites will be assessed in regards to potential significance so that recommendations can be made for proper management (avoidance, non-avoidance, or further work). Additional shovel tests will be conducted per THC standards at any discovered sites to define horizontal and vertical boundaries. Appropriate State of Texas Archaeological Site Data Forms will be filled out for each site discovered during the investigations. A detailed plan map of each site will be produced and locations will be plotted on USGS 7.5 minute topographic maps and relevant project maps. Sims & Associates is proposing a non-collection survey. Artifacts will be tabulated, analyzed, and documented in the field, but not collected. Temporally diagnostic artifacts will be described in detail and photographed in the field. Only especially rare artifacts or discoveries will be collected. This policy will reduce or eliminate curation costs once the fieldwork is concluded.

#### **ANALYSIS, REPORT PREPARATION, CURATION**

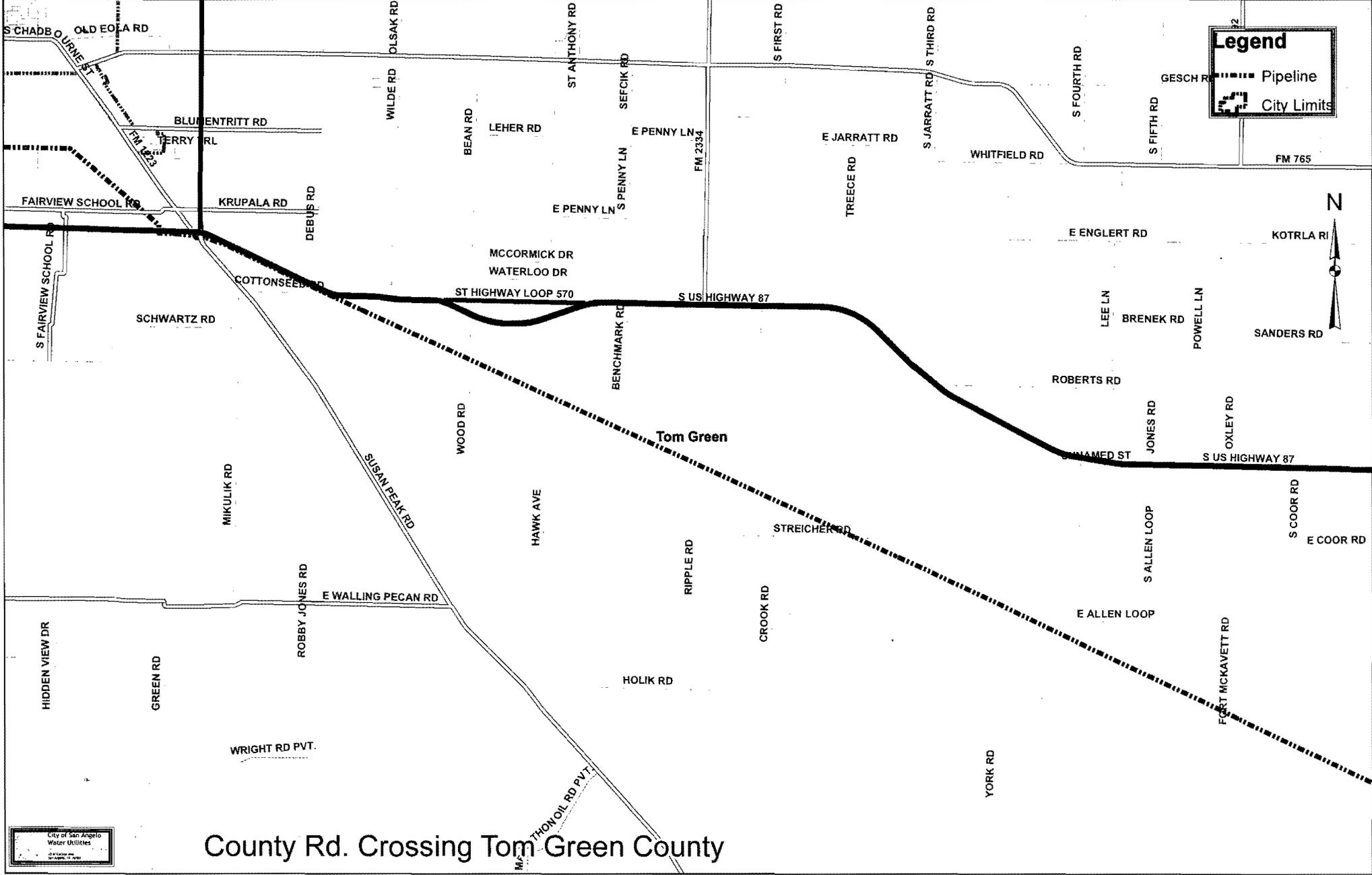
Once the archaeological survey has been concluded, Sims & Associates will analyze the field data and artifacts, produce a report of the investigations, and curate all artifacts and documents. Analysis of field data and artifacts will include mapping, the production of official State of Texas site forms for all documented sites, analysis and tabulation of artifacts, and the review, organization, and assessment of field notes. Once this is fulfilled, Sims & Associates will prepare a report of the field investigations. The archaeological report will document previous investigations in the area, background cultural settings, the methodology used in the investigations, the presence and condition of any previously recorded sites revealed in the records assessment, the general nature and extent of cultural resources encountered during the archaeological survey, recommendations on the need for further work, and the potential significance of the cultural resources in regards to future development and eligibility to the National Register of Historic Places or for listing as a State Archaeological Landmark.

Draft copies of the report will be submitted to the client for review and comment. Once this has been accomplished, any appropriate edits will be made and a final draft report will be submitted to the City of San Angelo and then the THC. The Texas Antiquities Code also requires that 20 copies of the final report be submitted once the project is completed. Twenty-five copies of the final report would be submitted to the City of San Angelo with 20 copies going to the THC to meet this requirement. In addition, all recovered artifacts and documentation must be curated at an approved repository. Pursuant to 13 TAC 26.27 (g)(1), recovered artifacts (if any) will be curated at an approved curation facility, which will be in this case the TARL in Austin, Texas. These artifacts will be washed, analyzed, and cataloged according to TARL curation standards. Records, files, field notes, forms, documentation of disposed artifacts, and other required documentation will be archived and included in the curation package.

**COUNTY ROAD CROSSINGS  
TOM GREEN COUNTY**

The following is a listing of the county roads that will be crossed by the proposed City of San Angelo Hickory Water Supply pipeline:

Shahan Road  
Fairview Road  
Debus Road  
Wood Road  
Hawk Avenue  
Ripple Road  
Crook Road  
Streicher Road  
York Road  
Ft. Mcavitt Road



**Legend**

- Pipeline
- City Limits



# County Rd. Crossing Tom Green County

City of San Angelo  
Water Utilities