18 December 2012

Ruth Valle
Environmental Compliance and Policy Analyst
Golden Spread Electric Cooperative, Inc.
PO Box 9898
Amarillo, TX 79105-5898

Re: Cultural Resources Archival Review
Golden Spread – Antelope Station Site
Hale County, Texas
HJN 120128 PI

Dear Ms. Valle,

Horizon Environmental Services, Inc. (Horizon) has completed the requested cultural resources archival review of the Antelope Station Site in Hale County, Texas (Subject Site). The results are presented below.

Archival research conducted via the Internet at the Texas Historical Commission’s (THC’s) Texas Archeological Sites Atlas (Atlas) website indicated the presence of no previously recorded archeological sites or cemeteries within an approximately 1.0-mile perimeter of the Subject Site. Similarly, a review of the National Park Service’s (NPS) National Register of Historic Places (NRHP) Google Earth map layer indicated the presence of no historic properties listed on the NRHP within the review perimeter. No documented cultural resources, including any listed on the NRHP, are located within or immediately adjacent to the Subject Site. Based on the Atlas maps, the entire Subject Site is located within a larger area that was previously assessed for cultural resources. This prior survey, conducted in 1982 for a project sponsored by the Environmental Protection Agency (EPA), produced negative results within the limits of the Subject Site.

Prehistoric archeological sites are commonly found in upland areas and on alluvial terraces near stream/river channels, drainages, and playa lake beds. Based on the presence of playa lake beds to the north, east, and south of the Subject Site, it is Horizon’s opinion that there would normally exist at least a moderate potential for undocumented prehistoric cultural deposits within the boundaries of the Subject Site. However, as the Subject Site was previously assessed for cultural resources in 1982 with negative results, it is Horizon’s further opinion that the potential for undocumented prehistoric cultural resources within the boundaries of the Subject Site is now low.

In regard to historic-era resources, the lack of visible structures within the boundaries of the Subject Site on the relevant topographic quadrangle map suggests a decreased potential for
historic-era standing structures or associated cultural deposits within the boundaries of the Subject Site.

In accordance with Section 106 of the National Historic Preservation Act (NHPA) of 1966, if any federal permits or funding are required for the development of the Subject Site, including Nationwide Permits issued by the US Army Corps of Engineers (USACE) or Greenhouse Gas (GHG) permits issued by the EPA, permitting agencies may require a cultural resources survey of the Subject Site. Similarly, if the Subject Site will be developed by or maintained by a public entity, permitting agencies may also require a cultural resources survey in compliance within the Antiquities Code of Texas (ACT).

In the event that the undertaking does not require any federal permitting/funding and cultural resources are not afforded protection under the regulations of Section 106 of the NHPA or the ACT, unmarked burial sites (both prehistoric and historic-era) are still protected under the Texas Health and Safety Code. As such, if any human remains or grave offerings are encountered at any point during construction, maintenance, or on-going use of the Subject Site, all work at the location of the accidental discovery should cease immediately. Following the cessation of activity, the THC should be notified immediately and a qualified archeologist should be contacted to assess the find.

Sincerely,

Russ Brownlow, MA, RPA
Principal / Cultural Resources Director
Horizon Environmental Services, Inc.
The City of Abernathy has proposed to modify their existing wastewater treatment facilities. Facility plan revisions during development of the project necessitated resurvey of the project, originally cleared by the State Historic Preservation Officer in August, 1980. These changes added 222.2 hectares (549 acres) of land in four tracts north of the city for disposal of treated effluent (see map).

On March 16, 1982, the project was surveyed using a combination windshield and pedestrian method. All of the land has been cultivated in the recent past. Tract A has been terraced, as has Tract C. Special attention was paid to dune areas near playa lakes; however, no trace of cultural remains was observed.

On the basis of this surface reconnaissance, it is felt that no significant cultural remains will be affected by the proposed project. It is recommended that archeological clearance for these project additions be granted by the State Historic Preservation Officer (SHPO) with the stipulation that work be halted if buried features are encountered. Should that situation arise, it will be reported to the SHPO and this office immediately for comment before work resumes.

Christopher J. Jurgens, Archeologist
Construction Grants and Water Quality Management Division
Texas Department of Water Resources
April, 1982
CULTURAL RESOURCE SURVEY AREAS
FROM APRIL 1982 MAP
GOLDEN SPREAD
ANTELOPE STATION EXPANSION
ABERNATHY, HALE COUNTY, TEXAS
RUSSELL K. BROWNLOW
PRINCIPAL / CULTURAL RESOURCES DIRECTOR

TECHNICAL SPECIALTIES

- Cultural resource management (CRM);
- Prehistoric archeology of Texas, Oklahoma, and Louisiana;
- Compliance with the Antiquities Code of Texas (ACT), Section 106 of the National Historic Preservation Act (NHPA) of 1966, as amended, and the Native American Graves Protection and Repatriation Act (NAGPRA);
- Prehistoric lithic technology (flint knapping);
- Ethnohistory;
- Project management;
- Archeological survey, testing, and data recovery;
- Technical report writing

EDUCATION

- B.A., Anthropology / Archeology, The University of Texas at Austin, 1992
- M.A., Anthropology, The University of Houston, 1998

PROFESSIONAL REGISTRATIONS AND TRAINING

- Registered Professional Archeologist since 2001 (RPA ID# 11924)
- TxDOT pre-certified for Service 2.10.1 (Archeological Surveys, Documentation, Excavations, Testing, Reports, and Data Recovery Plans)
- Mine Safety and Health Administration (MSHA) certified through 11/23/12

PROFESSIONAL / TECHNICAL SOCIETIES

- Texas Archeological Society (TAS)
- Council of Texas Archeologists (CTA)
- Register of Professional Archeologists (RPA)
- Texas Association of Environmental Professionals (TAEP)

AWARDS

- Texas Historical Commission Award of Merit (2004) for exceptional field research, laboratory analysis, and report production associated with 41WM815 in Williamson County, Texas
PROFESSIONAL EXPERIENCE

- Horizon Environmental Services, Inc., Austin, Texas
  - 2000 to present
    - Horizon Principal / Cultural Resources Director / Principal Investigator / Project Manager
- Texas Archeological Research Laboratory, University of Texas at Austin
  - 1998 to 2000
    - Research Associate
- Archeological and Environmental Consultants, Inc., Austin, Texas
  - 1999
    - Project Archeologist
- Houston Museum of Natural Science, Houston, Texas
  - 1998
    - Consultant
- University of Houston, Department of Anthropology, Houston, Texas
  - 1997 to 1998
    - Teaching Assistant
  - 1994 to 1998
    - Field Technician, Laboratory Technician, Crew Chief, Field Director
- Prewitt and Associates, Inc., Austin, Texas
  - 1993
    - Field Technician
- Texas Archeological Research Laboratory, University of Texas at Austin
  - 1992
    - Laboratory Technician

FIELDS OF EXPERIENCE

Mr. Brownlow has over 19 years of experience conducting archeological research for both public institutions and private consulting firms. Examples of his archeological project experience include the following:

- In excess of 300 cultural resources surveys completed for a wide array of projects within Texas, Oklahoma, and Louisiana;
- National Register of Historic Places and/or State Archeological Landmark eligibility testing on a minimum of 36 archeological sites;
- Data recovery/mitigation efforts on a minimum of 11 archeological sites;
• Excavation of human burials from at least 7 different archeological sites including a historic cemetery containing in excess of 431 human interments, a Caddoan cemetery containing 16 human interments, and a burned rock midden site containing at least 4 human interments;

• Archeo-Geophysical (remote sensing) sampling on 3 archeological sites;

• Authoring or co-authoring over 250 technical reports of archeological investigations;

• Preparation of several archeological avoidance plans for seismic projects;

• Countless desktop archival reviews to determine the potential for cultural resources on various properties for inclusion in non-archeological documents (i.e. Phase I Environmental Site Assessments, Categorical Exclusions, etc.);

• Section 106 and/or Antiquities Code of Texas consultation for hundreds of projects with various permitting agencies including the Texas Historical Commission, Texas Water Development Board, Texas Parks and Wildlife Department, US Army Corps of Engineers, US Fish and Wildlife Service, Oklahoma State Historic Preservation Office, the Louisiana Department of Culture, Recreation, and Tourism, as well as a vast array of Tribal Historic Preservation Officers;

• In addition to his cultural resources experiences, Mr. Brownlow has also prepared a variety of non-archaeological documents includes numerous Categorical Exclusions (CEs), Phase I Environmental Site Assessments (Phase I ESAs), Environmental Reports (ERs), and Environmental Assessments (EAs). He has also contributed to the production of several Environmental Impacts Statements (EISs).

Types of projects in which Mr. Brownlow has participated in or managed cultural resources services include:

• Oil and gas exploration, development, and transportation;

• Ethanol production;

• Coastal and inland residential, commercial, and industrial land development;

• Solid waste landfills;

• Dredging activities;

• Surface lignite mines;

• Municipal planning;

• Reservoir development;

• Coastal port and channel improvements;

• Transportation corridors;

• Water and wastewater transportation and treatment;

• Electricity generation and transportation;

• University research;

• Military installations.
PRESENTATIONS

- Flint knapping and stone tool technology lecture for the 1997 spring semester Introduction to Archeology class at the Department of Anthropology, University of Houston.
- Flint knapping and stone tool technology lecture for the 1997 spring semester Archeology of Texas class at the Department of Anthropology, University of Houston.
- Flint knapping and stone tool technology lecture for the 1997 fall semester Introduction to Archeology class at the Department of Anthropology, University of Houston.
- Flint knapping and stone tool technology lecture for the 1997 fall semester Introduction to Physical Anthropology class at the Department of Anthropology, University of Houston.
- Two flint knapping demonstrations for the Brazoria County summer archeology programs sponsored by BCI Long Distance.
- Perdiz Arrow Point Origins for the Travis County Archeological Society, 1998.
- Flint knapping demonstration for the Austin French Legation’s annual summer camp program, 1999.
- Yearly flint knapping demonstrations for Camp Mabry’s annual “Muster Day” Event.
- Routine visits to various elementary school classes to conduct flint knapping demonstrations and present archeological career details for “career days”.

ARTICLES

Brownlow, R.K.


TECHNICAL PUBLICATIONS

Espy, Huston & Associates (EH&A now PBS&J):

Brownlow, R.K.

Schmidt, J.S., M.E. Cruse, and R.K. Brownlow

Masters Thesis:

Brownlow, R.K.
1998 Evaluating the Co-occurrence of Arrow Point Types in South Texas: Archaeological Excavations at the Batot-Hooker Site (41ME34), Medina County, Texas. Masters Thesis presented to the Anthropology Department of the University of Houston. Houston, Texas.

Texas Archeological Research Laboratory (TARL):

Brownlow, R.K.


2001 National Register Eligibility of Four Sites at the Texas Army National Guard’s Fort Wolters Facility, Parker Co., Texas. Studies in Archeology 37. Texas Archeological Research Laboratory, The University of Texas at Austin.

Contributing author in:

Takac, P.R., J.G. Paine, and M.B. Collins
2000 Reassessment of Ten Archeological Sites along the Houston Ship Channel – Morgan’s Point to Buffalo Bayou, Harris County, Texas. Studies in Archeology 38. Texas Archeological Research Laboratory, The University of Texas at Austin.
Archeological and Environmental Consultants, Inc.:

Pertulla, T.K. and R.K. Brownlow


Horizon Environmental Services, Inc.:

Brownlow, R.K.


2001  Backhoe Trench Investigations for a Proposed Wastewater Line Crossing Brushy Creek on the Ivie Tract, Williamson County, Texas. HJN 010016 AR. Horizon Environmental Services, Inc. Austin, Texas.

2001  Profile Documentation of Erosional Gullies in Borrow Pits Nos. 1 and 2 on Site 41WA255 for the Texas Department of Criminal Justice’s Estelle Unit, Huntsville, Walker County, Texas. Texas Antiquities Committee Permit No. 2509. HJN 000425 AR. Horizon Environmental Services, Inc. Austin, Texas.


2001  An Intensive Cultural Resources Survey and Subsequent Testing Along a Proposed Water/Wastewater Line within the Northern Right-of-Way of FM 1431 East, Williamson County, Texas. Texas Antiquities Committee Permit Nos. 2385 and 2433. HJN 000053 AR. Horizon Environmental Services, Inc. Austin, Texas.


2001 An Intensive Cultural Resources Survey of the Proposed Legacy Ridge Estates Residential Subdivision and Golf Course, Bonham, Fannin County, Texas. HJN 010348 AR. Horizon Environmental Services, Inc. Austin, Texas.


2002 An Intensive Cultural Resources Survey of the Proposed Widening of Ranch-to-Market Road 2243 (Alternates A and B), Leander, Williamson County, Texas. Texas Antiquities Committee Permit No. 2722. HJN 010185 AR. Horizon Environmental Services, Inc. Austin, Texas.


2002 An Intensive Cultural Resources Survey of a Proposed 12-acre Home Depot Site at the Rivery, Georgetown, Williamson County, Texas. HJN 020027 AR. Horizon Environmental Services, Inc. Austin, Texas.

2002 An Intensive Cultural Resources Survey for a Proposed 29-mile Crude Oil Pipeline Right-of-Way, Port Neches Route of the Cameron Highway Pipeline Project, Jefferson County, Texas. HJN 010344 AR. Horizon Environmental Services, Inc. Austin, Texas.

2002 An Intensive Cultural Resources Survey of the Proposed 27-acre Target in Bee Cave #2 Site, Bee Cave, Travis County, Texas. HJN 020067 AR. Horizon Environmental Services, Inc. Austin, Texas.

2002 An Intensive Cultural Resources Survey of the Buttercup Creek Channelization and Wetland Mitigation Project (30 Acres), Cedar Park, Williamson County, Texas. HJN 010333 PA. Horizon Environmental Services, Inc. Austin, Texas.


2002 An Intensive Cultural Resources Survey of a Proposed 122-acre Target Store Site Located at Parmer Lane and Interstate Highway 35, Austin, Travis County, Texas. HJN 010364 AR. Horizon Environmental Services, Inc. Austin, Texas.


2002 An Intensive Cultural Resources Survey of the Proposed 75-acre Greenshores Subdivision Tract Located in Northwest Austin, Travis County, Texas. HJN 020145 AR. Horizon Environmental Services, Inc. Austin, Texas.

2002 An Intensive Cultural Resources Survey of the Proposed 100-acre Wolf Tract, A Proposed Development Site in Georgetown, Williamson County, Texas. HJN 020144 AR. Horizon Environmental Services, Inc. Austin, Texas.


2002 An Intensive Cultural Resources Survey of the Proposed UNOCAL Keystone Gas Storage Project and 3.8 Miles of Associated Pipeline ROW, Winkler County, Texas. HJN 000256 AR. Horizon Environmental Services, Inc. Austin, Texas.

2002 An Intensive Cultural Resources Survey, Monitoring, and Geomorphological Investigations along the Proposed 2.5-Mile Northern Natural Interconnect, UNOCAL Keystone Gas Storage Project, Winkler County, Texas. HJN 000256 AR. Horizon Environmental Services, Inc. Austin, Texas.

2002 Archeological Monitoring Conducted during Texas Eastern Transmission’s Replacement of Approximately 1600 feet of Pipe via Horizontal Directional Drill under the San Antonio River, Goliad County, Texas. HJN 020169 AR. Horizon Environmental Services, Inc. Austin, Texas.

2002 Backhoe Trench Investigations Conducted on the 3.8-acre Hunt TDC No. 1 Well Site and Access Road, Anderson County, Texas. Texas Antiquities Committee Permit No. 2935. HJN 020181. Horizon Environmental Services, Inc. Austin, Texas.
2002 *Backhoe Trench Investigations Conducted along the 8-mile Pinnacle Gregory A-1 Pipeline Right-of-Way, Anderson County, Texas.* Texas Antiquities Committee Permit No. 2916. HJN 020149 AR. Horizon Environmental Services, Inc. Austin, Texas.

2002 *An Intensive Cultural Resources Survey of a Proposed 8-mile EPGT Natural Gas Transmission Pipeline in Travis and Hays Counties, Texas.* HJN 020128 AR. Horizon Environmental Services, Inc. Austin, Texas.

2002 *An Intensive Cultural Resources Survey of a Proposed 6-acre Village 7 Sewer Treatment Plant #1 Located in The Woodlands, Harris County, Texas.* HJN 020207 AR. Horizon Environmental Services, Inc. Austin, Texas.


2002 *Cultural Resources Investigations Conducted along Sections of New Hope and Bagdad Roads for Proposed Widening Efforts, Cedar Park, Williamson County, Texas.* Texas Antiquities Committee Permit No. 2967. HJN 020185 AR. Horizon Environmental Services, Inc. Austin, Texas.

2002 *An Intensive Terrestrial Cultural Resources Survey of the Proposed Crude Oil Pipeline Right-of-Way for the Cameron Highway Pipeline Project’s Texas City Extension, Chambers County, Texas.* HJN 020077 AR. Horizon Environmental Services, Inc. Austin, Texas.

2002 *Pipeline Realignments, Cameron Highway Oil Pipeline System New 24-inch Crude Oil Pipeline, Port Neches Extension, Jefferson County, Texas.* An Addendum to: *An Intensive Cultural Resources Survey for a Proposed 29-mile Crude Oil Pipeline Right-of-Way, Port Neches Route of the Cameron Highway Pipeline Project, Jefferson County, Texas.* HJN 020078 AR. Horizon Environmental Services, Inc. Austin, Texas.

2002 *An Intensive Cultural Resources Survey of the Proposed 1600-acre Belterra Subdivision Tract Located in Hays County, Texas.* HJN 020196 AR. Horizon Environmental Services, Inc. Austin, Texas.

2002 *An Intensive Cultural Resources Survey of a Proposed Orange County WCID No. 1 2-acre Water Well Site, 2-acre Water Storage Tank Site; and 37,400 Linear Feet of Associated Waterline Routes in Vidor, Orange County, Texas.* Texas Antiquities Committee Permit No. 2998. HJN 020233 AR. Horizon Environmental Services, Inc. Austin, Texas.

2002 *An Intensive Cultural Resources Survey of Extra Work Spaces Associated with Centennial Pipeline LLC’s Proposed Horizontal Directional Drill of the Little River in Grant and La Salle Parishes, Louisiana.* HJN 020258 AR. Horizon Environmental Services, Inc. Austin, Texas.

2002 *An Intensive Cultural Resources Survey of 1 Proposed Well Site and 1 Proposed Flow Line on EOG Resources’ Tucker Lease, Texas County, Oklahoma.* HJN 010239 AR. Horizon Environmental Services, Inc. Horizon Environmental Services, Inc. Austin, Texas.

2003 *Addendum to An Intensive Cultural Resources Survey of the Proposed Widening of Ranch-to-Market Road 2243 (Alternates A and B), Leander, Williamson County, Texas.* Texas Antiquities Committee Permit No. 2722. HJN 010185 AR. TXDOT CSJ No. 2103-01-021. Horizon Environmental Services, Inc. Austin, Texas.

2003 An Intensive Cultural Resources Survey of 3 Proposed Well Sites and Associated Flow Lines on the Freeman Ranch Lease, Texas County, Oklahoma. HJN 010239 AR. Horizon Environmental Services, Inc. Austin, Texas.

2003 An Intensive Cultural Resources Survey of 1 Proposed Well Site and 1 Proposed Flow Line on EOG Resources, Inc.’s Tucker Lease, Texas County, Oklahoma. HJN 010239 AR. Horizon Environmental Services, Inc. Austin, Texas.


2003 An Intensive Cultural Resources Survey of the Jefferson County Drainage District No. 6’s Proposed Mayhaw Diversion, Needmore Diversion, and Green Pond Detention Area, Jefferson County, Texas. Texas Antiquities Committee Permit No. 3031. HJN 000418 AR. Horizon Environmental Services, Inc. Austin, Texas.


2003 An Intensive Cultural Resources Survey of a Proposed 110-acre Sand and Gravel Mine and Sorting Plant for Riverside Aggregates, Austin County, Texas. HJN 030023 AR. Horizon Environmental Services, Inc. Austin, Texas.


2003 An Intensive Cultural Resources Survey of a Proposed 6-mile Natural Gas Pipeline for the UNOCAL Keystone Gas Storage Project, Winkler County, Texas. HJN 000256. AR.


2004 An Intensive Cultural Resources Survey of Proposed Oil/Gas Well Development on the Attwater’s Prairie Chicken National Wildlife Refuge, Colorado County, Texas. USFWS Special Use Permit #ATW-04-008. HJN 040088 AR. Horizon Environmental Services, Inc. Austin, Texas.

2004 Data Recovery Investigations at the Holt Site (41HY341), San Marcos, Hays County, Texas. HJN 040032 AR. Horizon Environmental Services, Inc. Austin, Texas.

2004 An Intensive Cultural Resources Survey of a Proposed Water Transmission Line from High Island to Singing Sands, Galveston County, Texas. Texas Antiquities Committee Permit No. 3298. HJN 020189 AR. Horizon Environmental Services, Inc. Austin, Texas.

2004 An Intensive Cultural Resources Survey of 13 Proposed Well Sites and Associated Flow Lines on the Freeman Ranch Lease, Texas County, Oklahoma. HJN 010239 AR. Horizon Environmental Services, Inc. Austin, Texas.

2004 An Intensive Cultural Resources Survey of 7 Proposed Well Sites on EOG Resources, Inc.'s Freeman Ranch and Tucker Leases, Texas County, Oklahoma. HJN 010239 AR. Horizon Environmental Services, Inc. Austin, Texas.

2004 National Register of Historic Places Eligibility Testing of 2 Sites (41WM650 and 41WM651) Located within the Cedar Park Town Center Development, Cedar Park, Williamson County, Texas. HJN 040024 AR. Horizon Environmental Services, Inc. Austin, Texas.

2005 Intensive Cultural Resources Survey of the Proposed Sierra Vista Substation Site and 138 kV Transmission Line, Webb County, Texas. HJN 050144 AR. Horizon Environmental Services, Inc. Austin, Texas.

2005 An Intensive Cultural Resources Survey of the Proposed 452-acre Park Lakes East Development near Humble, Harris County, Texas. HJN 050131 AR. Horizon Environmental Services, Inc. Austin, Texas.

2005 Archeological Monitoring of Scraping Investigations within the Port Bolivar Community Cemetery, Galveston County, Texas. Texas Antiquities Committee Permit No. 3857. HJN 050057 AR. Horizon Environmental Services, Inc. Austin, Texas.

2005 An Intensive Cultural Resources Survey of EOG Resources, Inc.'s Proposed CarthageGas Unit No. 112 Alt Natural Gas Well Pad and Access Road, Panola County, Texas. HJN 030169 AR. Horizon Environmental Services, Inc. Austin, Texas.


2005 An Intensive Cultural Resources Survey of the USACE Jurisdictional Areas within a Proposed Ethanol Plant Facility in Hereford, Deaf Smith County, Texas. HJN 050113 AR. Horizon Environmental Services, Inc. Austin, Texas.

2005 Backhoe Trenching at 2 Proposed Lift Stations Located in Richmond, Fort Bend County, Texas. Texas Antiquities Committee Permit No. 3712. HJN 050043 AR. Horizon Environmental Services, Inc. Austin, Texas.

2006 An Intensive Cultural Resources Survey of the USACE Jurisdictional Areas Associated with the Proposed Realignment of Macho Creek, Duval County, Texas. HJN 060199 AR. Horizon Environmental Services, Inc. Austin, Texas.

2006 An Intensive Cultural Resources Survey of the USACE Jurisdictional Areas Associated with 3 Proposed Detention Ponds and 2 Proposed Road Crossings within the Proposed Headwaters of Barton Creek Development, Drippings Springs, Hays County, Texas. HJN 040116 AR. Horizon Environmental Services, Inc. Austin, Texas.

2006 An Intensive Cultural Resources Survey of the Area of Potential Effect within the 164-acre Webb Development, Austin, Travis County, Texas. HJN 050068 AR. Horizon Environmental Services, Inc. Austin, Texas.
2006  Cultural Resources Assessments of 4 Maintenance Locations along the Longhorn Partners Pipeline, L.P. in Schleicher County, Texas.  HJN 050175 AR.  Horizon Environmental Services, Inc.  Austin, Texas.


2006  Cultural Resources Assessments of 21 Maintenance Locations along the Longhorn Partners Pipeline, L.P. in Travis, Bastrop, and Fayette Counties, Texas.  HJN 050175 AR.  Horizon Environmental Services, Inc.  Austin, Texas.


2007  An Intensive Cultural Resources Survey of 4 Additional HDD Locations on the Proposed Pecan Pipeline Right-of-Way, Palo Pinto County, Texas.  HJN 060191 AR.  Horizon Environmental Services, Inc.  Austin, Texas.

2007  Cultural Resources Assessments of 53 Maintenance Locations along the Longhorn Partners Pipeline, L.P. ROW in Gillespie, Kimble, Schleicher, Crockett, Reagan, Upton, and Crane Counties, Texas.  HJN 050175 AR.  Horizon Environmental Services, Inc.  Austin, Texas.


2007  An Intensive Cultural Resources Survey of Lake Travis ISD’s 12.75-acre West Cypress Hills Elementary School Tract, Travis County, Texas.  Texas Antiquities Committee Permit No. 4729.  HJN 070187 AR.  Horizon Environmental Services, Inc.  Austin, Texas.


2007 Cultural Resources Assessments of 4 Maintenance Locations along the Longhorn Partners Pipeline, L.P. Pipeline Right-of-Way in Gillespie and Blanco Counties, Texas. HJN 050175 AR. Horizon Environmental Services, Inc. Austin, Texas.


2007 An Intensive Cultural Resources Survey of 12 Cathodic Protection Beds along the Longhorn Pipeline Right-of-Way in Travis, Blanco, Gillespie, Mason, Crockett, Reagan, and Culberson Counties, Texas. Texas Antiquities Committee Permit No. 4594. HJN 050175 AR. Horizon Environmental Services, Inc. Austin, Texas.

2007 An Intensive Cultural Resources Survey of a Proposed HDD beneath an Abandoned Tram Road Owned by the US Forest Service in Nacogdoches County, Texas. HJN 070193 AR. Horizon Environmental Services, Inc. Austin, Texas.

2007 Cultural Resources Investigations on the Proposed 1060-acre Vizcaya Development, Spicewood, Travis County, Texas (Volume 1: Survey Level Investigations). HJN 060231 AR. Horizon Environmental Services, Inc. Austin, Texas.


2008 An Intensive Cultural Resources Survey of the Keechi Creek and Brazos River HDD Bore Pits on the Proposed Pecan Pipeline Right-of-Way, Palo Pinto County, Texas. HJN 060191 AR. Horizon Environmental Services, Inc. Austin, Texas.

2008 An Intensive Cultural Resources Survey of Orange County WCID No. 1’s Oak Lane WWTP Improvements, Vidor, Orange County, Texas. Texas Antiquities Committee Permit No. 4748. HJN 080006 AR. Horizon Environmental Services, Inc. Austin, Texas.

2008 An Intensive Cultural Resources Survey of the Proposed 80-acre Arbol Grande on St. Charles Bay Subdivision Tract, Aransas County, Texas. HJN 080045 AR. Horizon Environmental Services, Inc. Austin, Texas.


2008 Cultural Resources Investigations Conducted for the City of Anahuac’s Proposed Water System Improvements, Anahuac, Chambers County, Texas. Texas Antiquities Committee Permit No. 3856. HJN 050139 AR. Horizon Environmental Services, Inc. Austin, Texas.

2008 An Intensive Cultural Resources Survey of the Proposed Houston Fuel Oil Terminal Barge Docks #7 and #8 on Carpenters Bayou, Harris County, Texas. HJN 080106 AR. Horizon Environmental Services, Inc. Austin, Texas.

2009 An Intensive Cultural Resources Survey of the Trinity Bay Conservation District’s Proposed 90-acre Freshwater Impoundment Reservoir in Chambers County, Texas. Texas Antiquities Committee Permit No. 5189. HJN 090009 AR. Horizon Environmental Services, Inc. Austin, Texas.

2009  An Intensive Cultural Resources Survey of the Proposed 38.0-acre Hutto Lake Park Property, Hutto, Williamson County, Texas.  Texas Antiquities Committee Permit No. 5247.  HJN 090049 AR.  Horizon Environmental Services, Inc.  Austin, Texas.

2009  Cultural Resources Investigations along the Proposed LyondellBasell CVOS ETBE Pipeline Right-of-Way in Harris County, Texas.  HJN 090059 AR.  Horizon Environmental Services, Inc.  Austin, Texas.

2009  An Intensive Cultural Resources Survey of Phase 2 of the Proposed Wild Horse Ranch Northwest Wastewater Interceptor Right-of-Way, Travis County, Texas.  HJN 090061 AR.  Horizon Environmental Services, Inc.  Austin, Texas.


2009  Cultural Resources Investigations within a Proposed 27.0-acre US Army Reserve Training Center Survey Area, Humble, Harris County, Texas.  HJN 090108 AR.  Horizon Environmental Services, Inc.  Austin, Texas.

2009  An Intensive Cultural Resources Survey of the Houston Fuel Oil Terminal Company’s Proposed Ship Dock #4 on Buffalo Bayou, Harris County, Texas.  HJN 090101 AR.  Horizon Environmental Services, Inc.  Austin, Texas.

2009  An Intensive Cultural Resources Survey of the Proposed 89.0-acre Lake Travis ISD Education Facilities Tract, Travis County, Texas.  Texas Antiquities Committee Permit No. 5419.  HJN 090115 AR.  Horizon Environmental Services, Inc.  Austin, Texas.

2009  Cultural Resources Investigations of a Proposed Reroute of the LyondellBasell CVOS ETBE Pipeline Right-of-Way in Harris County, Texas.  Texas Antiquities Committee Permit No. 5316.  HJN 090059 AR.  Horizon Environmental Services, Inc.  Austin, Texas.


2010  An Intensive Cultural Resources Survey of Louisiana Midstream Gas Services’ proposed Porter-Beach 26-12-1 Natural Gas Gathering Line in DeSoto Parish, Louisiana.  HJN 080147 AR 125.  Horizon Environmental Services, Inc.  Austin, Texas.


2010 Archeological Avoidance Plan for the Proposed Union Grave 3-D Seismic Survey Project in Sabine, San Augustine, and Nacogdoches Counties, Texas. HJN 100026 AR. Horizon Environmental Services, Inc. Austin, Texas.

2010 Archeological Avoidance Plan for the Proposed Union Grave 3-D Seismic Survey Project in San Augustine County, Texas. HJN 100026 AR. Horizon Environmental Services, Inc. Austin, Texas.

2010 Archeological Avoidance Plan for the Proposed Nac East 3-D Seismic Survey Project in Nacogdoches, San Augustine, and Shelby Counties, Texas. HJN 100032 AR. Horizon Environmental Services, Inc. Austin, Texas.

2010 An Intensive Phase I Cultural Resources Survey of the Proposed TGG 36-inch Phase 3 Section 1 Natural Gas Gathering Line in Caddo and DeSoto Parishes, Louisiana. HJN 100050 AR. Horizon Environmental Services, Inc. Austin, Texas.


2010 An Intensive Phase I Cultural Resources Survey of Petrohawk Energy Corporation’s Proposed TBD 22-16N-10W Off-Unit Alt. No. 1 Well Pad and Access Road in Bienville Parish, Louisiana. HJN 100057 AR. Horizon Environmental Services, Inc. Austin, Texas.


2010 An Intensive Phase I Cultural Resources Survey of Louisiana Midstream Gas Services’ Proposed Wiggins 31-12-12 Natural Gas Gathering Line, DeSoto Parish, Louisiana. HJN 080147 AR 152. Horizon Environmental Services, Inc. Austin, Texas.


2010 Archeological Monitoring Conducted During the Replacement of Waterline Segment 10, Anahuac, Chambers County, Texas. HJN 100052 AR. Horizon Environmental Services, Inc. Austin, Texas.

2010 An Intensive Cultural Resources Survey of G-M WSC’s Proposed Surface Water Treatment Facility and Intake Structure Project in Sabine County, Texas. Texas Antiquities Committee Permit No. 5676. HJN 10074 AR. Horizon Environmental Services, Inc. Austin, Texas.

2010 Cultural Resources Investigations Conducted for the Proposed Rocky Creek Ranch WWTP Project in Travis County, Texas. Texas Antiquities Committee Permit No. 5682. HJN 100081 AR. Horizon Environmental Services, Inc. Austin, Texas.


2010 An Intensive Phase I Cultural Resources Survey of Petrohawk Energy Corporation’s Proposed Tompkins 2-H No.1 Well Pad and Access Road in Bossier Parish, Louisiana. HJN 100084 AR. Horizon Environmental Services, Inc. Austin, Texas.


2010 An Intensive Phase I Cultural Resources Survey of Petrohawk Energy Corporation’s Proposed Cowley 29H No. 1 Well Pad and Access Road in Bienville Parish, Louisiana. HJN 100089 AR. Horizon Environmental Services, Inc. Austin, Texas.


2010 An Intensive Cultural Resources Survey of the USACE Jurisdictional Areas within the Proposed Crossings at Plum Creek Development in Hays County, Texas. HJN 100067 AR. Horizon Environmental Services, Inc. Austin, Texas.


2010 An Intensive Phase I Cultural Resources Survey of Louisiana Midstream Gas Services’ Proposed Nabors 7-12-11 Natural Gas Gathering Line, DeSoto Parish, Louisiana. HJN 080147 AR 204. Horizon Environmental Services, Inc. Austin, Texas.


2010 An Intensive Phase I Cultural Resources Survey of Kinderhawk Field Services, LLC’s Proposed CPS-Timberlands Natural Gas Gathering Line ROW in DeSoto Parish, Louisiana. HJN 100090 AR 24. Horizon Environmental Services, Inc. Austin, Texas.


2010 An Intensive Phase I Cultural Resources Survey of Kinderhawk Field Services, LLC’s Proposed Langford Natural Gas Gathering Line ROW in Bossier Parish, Louisiana. HJN 100125 AR 08. Horizon Environmental Services, Inc. Austin, Texas.


An Intensive Phase I Cultural Resources Survey of Louisiana Midstream Gas Services’ Proposed Springridge Lateral 1 West Loop Comped Route Natural Gas Gathering Line, Caddo Parish, Louisiana. HJN 080147 AR 260. Horizon Environmental Services, Inc. Austin, Texas.


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The Register of Professional Archaeologists

Certifies that

Russ Brownlow, RPA

has met all professional qualifications and has been accredited as a

Registered Professional Archaeologist

Date

July 16, 2001

President

[Signature]
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EXECUTIVE DIRECTOR, TEXAS HISTORICAL COMMISSION

DATE

May 7, 2004