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Firm Profile

NHG Alaska, LLC (NHG) combines the expertise of Northern Land Use Research, Inc. (NLUR; founded in Alaska in 1991) and HRA Gray & Pape, LLC (HRAG&P; founded in 1997) to offer cultural resource management services for oil and gas development projects in Alaska. Located in Anchorage, NHG complements the over 19 years of Alaskan archaeological and project management experience offered by NLUR (over 400 cultural resources projects completed in Alaska to date) with an increased capability, permitting expertise, and range of services provided by HRAG&P. NHG has the capacity and experience to meet the demands of multiple concurrent small- and large-scale projects throughout the state. NHG project managers are all Alaska-based and have extensive local experience in every aspect of cultural resource investigations. We understand the consultation, scheduling, logistic, fieldwork, and technical demands associated with both federal and state cultural resources requirements.

Collectively, NHG has the demonstrated ability to work productively as a key member of larger project teams and brings expertise in project development, scoping, scheduling, safety and fiscal management to bear on issues such as public relations, land use planning, engineering, and construction. Our office and staff are fully equipped and prepared for undertaking field investigations, reports, GIS analysis, and a host of other related services involving survey, inventory, evaluation, and mitigation for archaeological and above-ground cultural resources. We stress meeting client needs in a timely and cost-effective fashion by providing technical expertise, efficient project management, and accurate and understandable work products. More often than not, projects will require rapid mobilization, are aggressively scheduled, and require prompt submission of progress reports and survey coverage status. Several of our member firm project examples highlight our ability to meet these challenges.

Relevant Project Experience

Trans-Alaska Pipeline System (TAPS)

NLUR has conducted various projects along the proposed Alaska Pipeline Project (APP) corridor since incorporation in 1991. Of particular relevance to the APP, NLUR was contracted by the owners group representing the Trans Alaska Pipeline System (TAPS) to help compile the environmental reports to support the owners' 30-year permit renewal efforts. NLUR reviewed cultural resource site and subsistence data within five miles on each side of the existing oil pipeline between Prudhoe Bay and Valdez. Specific tasks included review of previous historical and archaeological investigations, identification and mapping of all known sites, development of a site database, identify issues in site location and description data, extrapolate potential future site impacts, and outline major cultural resource issues in the

pipeline corridor. This work resulted in to production of the *Summary of Cultural Resources Data on the Trans Alaska Pipeline System, Prudhoe Bay to Valdez* (Potter and Bowers 2000) and a two volume subsistence study (Gerlach et al. 2000 and Sheppard 2000).

Alaska Gas Producers Pipeline Team (AGPPT)

In 2001, NLUR served as the primary cultural resource subcontractor for the Alaska Gas Producers Pipeline Team (AGPPT) project, making NLUR the only firm to carry out a large-scale FERC pipeline project in the past decade in Alaska. Over 26,000 man-hours were spent in the field to complete the reconnaissance level survey of approximately 625 miles of the proposed alignment, representing over 85% coverage of the entire 727 mile-long route. In addition to the mainline route, NLUR also covered four compressor station locations, and several additional work areas, including a literature review of proposed off-shore alignments in the Beaufort Sea. The survey data was used to support National Historic Preservation Act (NHPA) Section 106 and FERC requirements (Potter et al. 2001a, Potter et al. 2002)

Prior to the 2001 field season, NLUR prepared a two-volume *Data Assessment Report* (Potter et al. 2001a) and a two-volume *Predictive Model and Survey Strategy* (Potter et al. 2001b). The field data was documented in a five-volume final report (Potter et al. 2002) describing methods and results, and providing the State Historic Preservation Officer (SHPO), permitting agencies, and other consulting parties with accurate site locations and basic site descriptions. That report was submitted in partial fulfillment of permits with SHPO and Bureau of Land Management (BLM) for a Phase I: Reconnaissance Level survey. 122 sites were located during the survey.

Pathfinder/Bison Pipeline Project

For AECOM on behalf of TransCanada, HRA (HRA Gray & Pape) HRA Gray & Pape, LLC. conducted a cultural resources survey for the proposed Pathfinder/Bison pipeline. HRA Gray & Pape inventoried over 136 miles of the pipeline's North Dakota segment. The survey included a 300-ft right of way for archaeological sites and a variable area of potential effects for historic resources. A report of the findings was prepared. In addition, HRA Gray & Pape conducted background research on 18 different alternatives for the proposed Pathfinder/Bison pipeline. Research was conducted on historic properties in Colorado, North Dakota, Montana, South Dakota, and Wyoming. HRA reviewed information on National Historic Landmarks, properties listed in the National Register of Historic Places, and properties considered eligible or potentially eligible for inclusion in the National Register of Historic Places. HRA prepared tables of the various properties along each route for the FERC filing.

Williams Gas Pipeline's Pacific Connector Natural Gas Pipeline, Southern Oregon

HRA completed cultural resources investigations for the Pacific Connector Pipeline Project in Southern Oregon. Williams is proposing a 36-inch pipe to connect the proposed Jordan Cove Liquid Natural Gas facility near Coos Bay, Oregon to PG&E's interstate pipeline near Malin, a distance of 223 miles. The project included background research and data gap analysis, preparation of research designs, pedestrian survey and shovel probing of the entire route,

followed by Phase II evaluations. HRA managed two subcontracted firms and established a logistical coordinator as a central implementing role for data collection and management for up to six crews working at various places along the line at any one time. HRA prepared the GIS layers and map sets used during the survey phase, and developed the Project data dictionary to ensure all crews were collecting equivalent GPS information.

HRA prepared site records, summary reports for each phase of the project, as well as comprehensive technical reports for the Phase I survey and Phase II evaluations phases, and the RR4. A plan for treatment of archaeological sites determined to be adversely affected by the Project also was submitted. HRA assisted with consultation with several Native American tribes, federal and state agencies, and the Oregon SHPO, and worked with Williams' staff to prepare for FERC meetings at various stages of the project.

The Millennium Pipeline Project

Since 1997, HRA Gray & Pape has provided Columbia Gas Transmission, NiSource and the Millennium Pipeline Co. with cultural resource management services associated with the Millennium Pipeline Project in New York. The original 422-mile project corridor began in Canada, crossed Lake Erie, traversed the Southern Tier counties of New York, and ended in southern Westchester County. HRA Gray & Pape completed 405 miles of mainline Phase I survey, and 50 miles of underwater survey (including the Canadian part of Lake Erie).

HRA Gray & Pape maintained close coordination with FERC and NYSHPO staff on all aspects of this 7(c) project from resource sensitivity modeling to development of treatment plans. To ensure productive and timely coordination with NYSHPO, HRA Gray & Pape developed a unique partnership with the New York Natural Heritage Trust to underwrite a NYSHPO review position.

The Millennium Project partners approach to delineation of the project corridor used multidisciplinary teams supported by GIS/GPS technology. These teams included cultural resources, civil survey, construction, and environmental representatives working with project-specific GPS data dictionaries and integrated GIS analysis and construction work area output for FERC staff review. Work plans were based on data gap analysis, study area historic contexts and resource sensitivity models. Each season's work was reported in documents submitted to both the SHPO offices and the Federal Energy Regulatory Commission. All reports were submitted on deadline and were accepted without revision by the permitting agencies.

HRA Gray & Pape has implemented the treatment plans which were developed to mitigate project effects on archaeological, historical and landscape resources. The treatment plans also included creation of a website that will provide New York teachers with curriculum support utilizing cultural resource information generated by the project.

Atlas Ozark East End Expansion Pipeline Project, Arkansas and Mississippi

HRA Gray & Pape, LLC, provided cultural resource management support to ENSR/AECOM on the approximately 188-mile East End Expansion Pipeline Project across Alaska Pipeline Project (APP) Request for Proposal
NHG Alaska, LLC: Firm Profile, November 2009

Arkansas and Mississippi for Ozark Gas Transmission, LLC. Successful consultations with the Mississippi Department of Archives, the History/Mississippi State Historic Preservation Office, and the Arkansas State Historic Preservation Office, supported the use of probability modeling to expedite resource identification survey and assist with pipeline routing decisions. The Phase I resource identification survey and report of findings documenting over 100 archaeological resources was completed in six months. HRA Gray & Pape worked with project engineers and environmental staff to develop routes around cultural resources eligible for inclusion on the National Register. Additional support involved preparation of the FERC Resource Report 4, expedited reroute surveys, and National Register eligibility assessments for significant resources that could not be successfully avoided.

Project Title/Date	Contact	Summary Description
Trans-Alaska Pipeline (TAPS) 30 Year EIS		NLUR has conducted various projects along the proposed Alaska Pipeline Project (APP) corridor since incorporation in 1991. Of particular relevance to the APP, NLUR was contracted by the owners group representing the Trans Alaska Pipeline System (TAPS) to help compile the environmental reports to support the owners' 30-year permit renewal efforts.
Alaska Gas Producers Pipeline Team Project (AGPPT) 2001-2002 (NLUR Project)	Michael Wofford (retired) ConocoPhillips Environmental Manager. Presently With: Doerner, Saunders, Daniel & Anderson, L.L.P. Bank of Oklahoma Building 201 Robert S. Kerr, Suite 700 Oklahoma City, OK 73102-4203 (405) 319-3504 (direct) (405) 406-1929 (cell) Alan Schuyler Retired, AGPPT Environmental and Regulatory Manager (907) 240-5131 (cell)	In 2001, NLUR surveyed 624 mi. (77% of 727 mi. total alignment) of a proposed gas pipeline between Prudhoe Bay and the Canadian Border near Northway, for the AGPPT Project (consortium of ConocoPhillips, BP, and Exxon). Prior to the fieldwork, which employed more than 40 archaeologists, we completed a data assessment report and a predictive model/field strategy report. 120 cultural resources were located. A final confidential report (> 1,000 pages) was completed in February 2002.
Pacific Connector Natural Gas Pipeline, Southern Oregon 2006-present (HRAGP Project)	Williams Gas Pipeline Toby Schwalbe 801-584-6751	HRA completed cultural resources investigations for the Pacific Connector Pipeline Project in Southern Oregon. Williams is proposing a 36-inch pipe to connect the proposed Jordan Cove Liquid Natural Gas facility near Coos Bay, Oregon to PG&E's interstate pipeline near Malin, a distance of 223 miles. The project included background research and data gap analysis, preparation of research designs, pedestrian survey and shovel probing of the entire route, followed by Phase II evaluations; data recovery on archaeological sites determined to be adversely affected by the Project is planned. HRA assisted with consultation with several Native American tribes, federal and state agencies, and the Oregon SHPO.
Bison/Pathfinder	Lynn M. Gierek, R.P.A. Project Manager ENSR/AECOM 27755 Diehl Road, Suite 100 Warrenville, Illinois 60555-3998 630.839.5332 direct dial lgierек@ensr.aecom.com	For AECOM on behalf of TransCanada, HRA (HRA Gray & Pape) HRA Gray & Pape, LLC. conducted a cultural resources survey for the proposed Pathfinder/Bison pipeline. HRA Gray & Pape inventoried over 136 miles of the pipeline's North Dakota segment. The survey included a 300-ft right of way for archaeological sites

		and a variable area of potential effects for historic resources. A report of the findings was prepared. In addition, HRA Gray & Pape conducted background research on 18 different alternatives for the proposed Pathfinder/Bison pipeline. Research was conducted on historic properties in Colorado, North Dakota, Montana, South Dakota, and Wyoming.
The Millennium Pipeline Project	Mr. Richard E. Hall, Jr. Principal - EH&S NiSource 4594 California St Brooksville, FL 34604 (607) 768-2760 rhall@nisource.com	Since 1997, HRA Gray & Pape has provided Columbia Gas Transmission, NiSource and the Millennium Pipeline Co. with cultural resource management services associated with the Millennium Pipeline Project in New York. The original 422-mile project corridor began in Canada, crossed Lake Erie, traversed the Southern Tier counties of New York, and ended in southern Westchester County. HRA Gray & Pape completed 405 miles of mainline Phase I survey, and 50 miles of underwater survey (including the Canadian part of Lake Erie).
Atlas Ozark East End Expansion Pipeline Project	Lynn M. Gierke, R.P.A. Project Manager ENSR/AECOM 27755 Diehl Road, Suite 100 Warrenville, Illinois 60555-3998 630.839.5332 direct dial lgierke@ensr.aecom.com	HRA Gray & Pape, LLC, provided cultural resource management support to ENSR/AECOM on the approximately 188-mile East End Expansion Pipeline Project across Arkansas and Mississippi for Ozark Gas Transmission, LLC. Successful consultations with the Mississippi Department of Archives, the History/Mississippi State Historic Preservation Office, and the Arkansas State Historic Preservation Office, supported the use of probability modeling to expedite resource identification survey and assist with pipeline routing decisions.

Professional References:

1. Michael Wofford (formerly ConocoPhillips Environmental Manager) (405) 319-3504
2. Alan Schuyler Retired, AGPPT Environmental and Regulatory Manager (907) 240-5131
3. Lynn M. Gierke, R.P.A., (630) 839.5332, lgierke@ensr.aecom.com