



**CHRONICLE™**  
HERITAGE

# STATEMENT OF QUALIFICATIONS

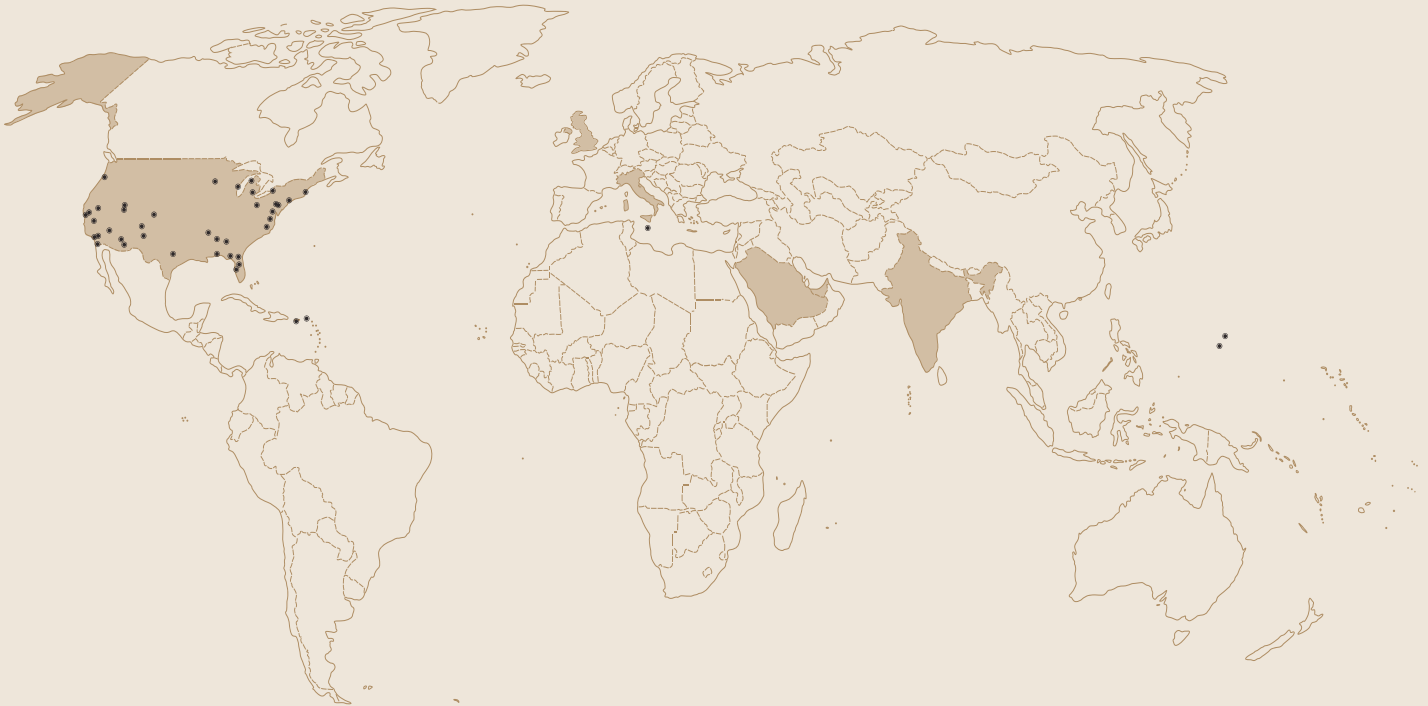
Business-Focused Cultural and  
Heritage Resource Management



# BREAK NEW GROUND

Chronicle Heritage is dedicated to solution-driven consulting on behalf of clients needing their projects guided through the regulatory challenges posed by cultural resources (prehistoric, historic, architectural, ethnographic, and paleontological).

Founded in 2006, Chronicle Heritage has carried out projects from coast to coast and internationally. Our clientele includes a range of state and federal agencies, tribes, and private-sector clients. The firm's work has gained the trust of government agencies, such as the Department of Defense, Department of Energy, Federal Energy Regulatory Commission, Bureau of Land Management, Bureau of Reclamation, and U.S. Forest Service. Our tribal work has included aiding the establishment of THPO offices and several very large infrastructure projects. Chronicle Heritage's proficiency supporting the needs of energy development, water and land development, mining and exploration, and related industries has gained us trust and repeat business from a wide variety of firms in the private sector.



## U.S. OFFICE LOCATIONS

TUSCALOOSA, AL  
PHOENIX, AZ  
TEMPE, AZ  
TUCSON, AZ  
S.F. BAY AREA, CA  
FRESNO, CA  
LOS ANGELES, CA

REDLANDS, CA  
SACRAMENTO, CA  
SAN DIEGO, CA  
DENVER, CO  
IGNACIO, CO  
GAINESVILLE, FL  
LAKELAND, FL

PENSACOLA, FL  
TALLAHASSEE, FL  
TAMPA BAY, FL  
COLUMBUS, GA  
LITTLETON, MA  
DEXTER, MI  
TRAVERSE CITY, MI

MINNEAPOLIS, MN  
LAS VEGAS, NV  
RENO, NV  
ALBUQUERQUE, NM  
BUFFALO, NY  
NEW YORK, NY  
TARBORO, NC

COLUMBUS, OH  
PORTLAND, OR  
PHILADELPHIA, PA  
WEST CHESTER, PA  
MEMPHIS, TN  
AUSTIN, TX  
OGDEN, UT

SALT LAKE CITY, UT  
CHANTILLY, VA  
RICHMOND, VA  
MILWAUKEE, WI

## INTERNATIONAL PRESENCE

GUAM  
INDIA

ITALY  
KINGDOM OF SAUDI ARABIA

MALTA  
N. MARIANA ISLANDS

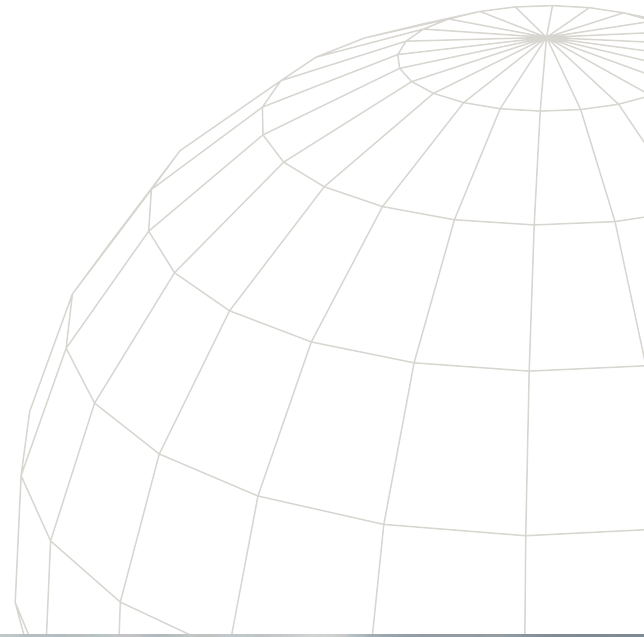
PUERTO RICO  
UNITED ARAB EMIRATES

UNITED KINGDOM  
U.S. VIRGIN ISLANDS



# TIMELY, EFFECTIVE ASSITANCE WHEREVER YOU ARE AROUND THE GLOBE

As the largest firm of its kind in the world, Chronicle Heritage possesses the expansive network of regional experts and resources needed for complex projects in the U.S. and internationally.



BUSINESS-FOCUSED  
CONSULTANTS  
THAT DELIVER





# OUR EXPERTISE & SERVICES

## CULTURAL RESOURCES

- Historic, Prehistoric, and Maritime Archaeology
- Historical Resources
- Cultural Resource Surveys
- Testing and Local and National Register Evaluations
- Data Recovery and Mitigation
- Management Plans
- Cultural Resource Overviews and Historic Contexts
- Management Plans, Testing and Data Recovery Plans, Research and Sampling Designs
- Ethnographic and Ethnohistoric Research
- Tribal Consultation

## PALEONTOLOGY

- Paleontological Field Surveys
- Literature Reviews and Research
- Fossil Salvage and Recovery

## MAJOR PROJECT SOLUTIONS

- Construction Monitoring
- Due Diligence Assessments
- Worker Environmental Awareness Training

## GIS AND TECHNOLOGY

- Geographic Information Systems (GIS) and Database Services
- Geophysical Surveys
- Aerial Imaging
- 3D Modeling



## WE SUPPORT CLIENTS IN:

- Land Development
- Energy Generation and Transmission
- Oil and Gas
- Communications
- Transportation
- Federal Government
- State and Local Government
- Mining
- Tribal





## OUR APPROACH

The advanced digital system we bring to our clients improves the efficiency of our work and the quality of our products.

Our system improves the quality of data collected in the field while making the process more efficient, allowing us to deliver a higher-quality product to our clients at a better value and in less time.

Our system employs a customized database, mobile devices, and computers. The process streamlines data collection, eliminates rework and error, and produces report-ready data from the start, allowing faster turnarounds on deliverables and improving upon traditional data collection and reporting methods.

## OUR SYSTEM

- Eliminates digitization after fieldwork
- Enables faster, more accurate data entry via autofill and other features
- Safeguards your project data with continuous backups
- Speeds projects through to completion

The nation's first all-digital firm of its kind, Chronicle Heritage has developed the premier approach to projects, employing a fully-digital workflow for data collection and management. We call it the Chronicle Way.

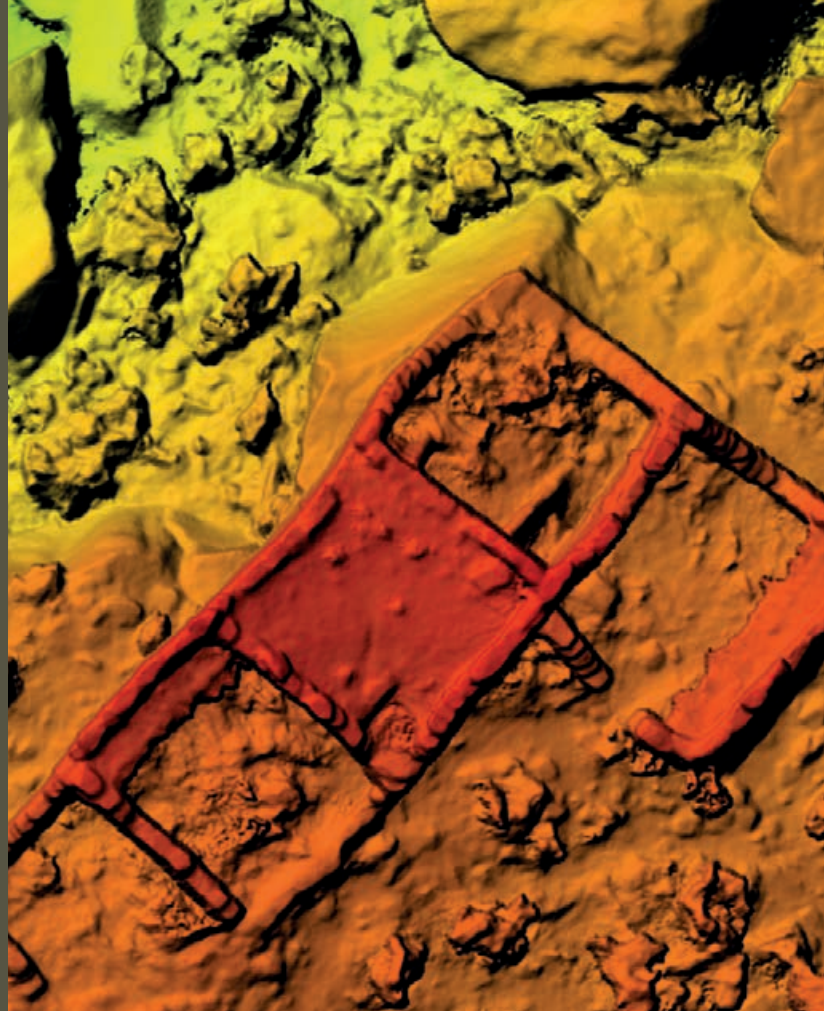




# LEADING WITH TECHNOLOGY

## 3D MODELING

Chronicle Heritage's pioneering work in site, landscape, and object preservation through digital 3D modeling has proven invaluable in worldwide heritage preservation. Individual objects from project or museum collections can be quickly modeled for digital preservation, allowing later 3D replica printing. For sites under threat from looting or terrorist destruction, this provides a precise record for condition assessments and, if necessary, later reconstruction. Chronicle Heritage has reached agreements with tribes to create 3D models of funerary offerings so they are digitally preserved for scientific use before they are repatriated and reburied under provisions of the Native American Graves Protection and Repatriation Act (NAGPRA).



Our client-friendly approach combining state-of-the-art technology, knowledge, and expertise ensures maximum efficiency and keeps your project on track.



## AERIAL IMAGING

Chronicle Heritage routinely incorporates low-altitude aerial mapping into its projects, as well as providing it as a standalone service. Chronicle Heritage maintains a fleet of fixed-wing and multi-rotor Unmanned Aerial Vehicles (UAVs) that can carry payloads to collect visible spectrum, near-infrared, and LiDAR data. This capability allows Chronicle Heritage to produce survey-grade maps, elevation models, and 3D reconstructions of subject sites, features, and landscapes at a fraction of the cost of using traditional surveyors and pilots. Chronicle Heritage was the first cultural resource firm to be issued a Section 333 Exemption by the FAA.



## PROJECT HIGHLIGHTS

# CHINA LAKE 3D PETROGLYPH MAPPING

Department of the Navy; China Lake,  
California

Chronicle Heritage was tapped by the Department of the Navy to begin creating a digital record of North America's largest array of prehistoric rock art, managed by China Lake Naval Weapons Station in California. Employing UAVs and pole-mounted data collection, Chronicle Heritage created the world's most extensive 3D digital model of prehistoric rock art, allowing the Navy to effectively manage its invaluable resource and share it with researchers and descendant tribes even as military operations at the base close it off to civilian access.





## PROJECT HIGHLIGHTS

# NAVAJO-GALLUP WATER SUPPLY CULTURAL RESOURCE PROJECT

U.S. Bureau of Reclamation, Northwest  
New Mexico

In 2011, Chronicle Heritage was awarded the nation's largest public archaeology contract. To properly treat the wealth of archaeological and ethnographic resources in the path of a 280-mile water pipeline in the Four Corners stemming from a major Congressional Indian water-rights settlement, Chronicle Heritage archaeologists, ethnographers, and historians created successful agreement documents, conducted fieldwork, completed specialized analyses, and produced reports necessary to satisfy two federal and two state agencies, as well as 22 consulting tribal entities. The multi-year project was tagged by the Obama Administration as the Department of the Interior's top-priority project nationwide, and Chronicle Heritage worked in concert with the Department to secure the additional Congressional funding necessary for the project through the passage of Public Law 114-57, the New Mexico Navajo Water Settlement Technical Corrections Act.







Chronicle Heritage supported Park environmental remediation responsibilities while documenting important archaeological resources and shedding light on the Continental Army's daily life and hardships at the encampment.

## PROJECT HIGHLIGHTS

# VALLEY FORGE NATIONAL HISTORIC PARK INVESTIGATIONS

National Park Service, Pennsylvania

Among the most hallowed locations in American history is Valley Forge, where George Washington's Continental Army spent the winter of 1777-78 during the American Revolutionary War. With archaeological excavations necessary as part of a long-term remedial action under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) to address contaminated soils within a large area of the Valley Forge National Historical Park, the National Park Service (NPS) called on Chronicle Heritage to carry out the work due to its expertise in historical archaeology and HAZMAT compliance.

The extensive archaeological testing project also included state-of-the-art architectural documentation for 19th century masonry ruins. The NPS was very pleased with Chronicle Heritage's timeliness, professionalism, and responsiveness. This project was highly successful as Chronicle Heritage supported Park environmental remediation responsibilities while documenting important archaeological resources and shedding light on the Continental Army's daily life and hardships at the encampment.







## PROJECT HIGHLIGHTS

# PROJECT HIGHLIGHTS UNEV PIPELINE PROJECT, NEVADA & UTAH

Holly Corporation, Utah

As part of the UNEV Pipeline Project for Holly Energy, WSA, now part of Chronicle Heritage, surveyed over 500 miles of proposed pipeline corridor and ancillary facilities between Salt Lake City, Utah and Las Vegas, Nevada. Over 300 historic and prehistoric sites were identified and recorded during the survey process. The subsequent 6-volume, 5,000-page Class III BLM survey report included a geomorphological analysis of the project areas, ethnographic summary of Great Basin cultures, descriptions and assessment of each site within the project area, lithic and groundstone analysis including extensive obsidian hydration and sourcing analysis, and over 500 illustrations and maps. Chronicle Heritage prepared two treatment plans (for Nevada and Utah) that outlined a program to guide the mitigation phase for cultural resources on the UNEV project.

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## PROJECT HIGHLIGHTS

# BELL COUNTY EAST TO TEXAS NEW MEXICO POWER TRANSMISSION LINE PROJECT

### Power Engineers, Texas

On behalf of Power Engineers, Inc., WSA, now part of Chronicle Heritage, conducted archaeological investigations for this 42-mile 345-kilovolt (kV) double-circuit transmission line in Bell, Milam, and Robertson Counties, Texas. A total of 36 linear miles was subject to a pedestrian survey, shovel testing and observation, covering 85 landowner parcels, including potential reroutes. In total, 360 shovel tests were conducted, several new archaeological sites identified, and mitigation measures developed to lessen potential impacts to deeply buried archaeological sites.







## PROJECT HIGHLIGHTS

# CONSTRUCTION COMPLIANCE AND MONITORING; THREE COASTAL POWER PLANT PROJECTS

AES Pacific and NRG Energy; Los Angeles, Orange, and San Diego Counties, California

Chronicle Heritage prepared worker environmental awareness training materials, construction monitoring plans, and discovery plans while providing Native American monitoring support and full-time archaeological/paleontological construction monitors during construction of three new power plants along the Pacific coast (the Huntington Beach Energy Project, Carlsbad Energy Center, and Alamitos Energy Center). Chronicle Heritage's staff are experts with the process and requirements of the permitting authority for these power projects - the California Energy Commission - having assisted in the licensing and construction compliance of dozens of projects in California over the past 15 years.

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## PROJECT HIGHLIGHTS

# SAN FRANCISCO'S TRANSBAY TRANSIT CENTER PROJECT

URS /Transbay Joint Powers Authority;  
San Francisco, California

Chronicle Heritage is conducting archaeological investigations for the 22-Block Transbay Transit Center Project in downtown San Francisco. The project would extend the Peninsula commuter rail service to a terminal in the South of Market neighborhood, and in the process relocate necessary utilities, demolish the existing Transbay Terminal and viaduct structure, construct a new Transbay Terminal building, and integrate bus and high-speed rail service serving the City. As part of the project's cultural resource program, Chronicle Heritage designed and installed an exhibit that describes the history of the project area and relates that history to the artifacts that are on display as part of the exhibit. The exhibit, which received a Preservation Design Award from the California Preservation Foundation, will rotate through the public spaces of various government agencies around the Bay Area.







During the course of project excavations, our team of experts encountered, documented, and recovered several hundred ship timbers, artifacts and features related to the breaking yard.

## PROJECT HIGHLIGHTS

# SAN FRANCISCO'S 300 SPEAR STREET DEVELOPMENT PROJECT

Tishman Speyer; San Francisco, California

WSA, now part of Chronicle Heritage, conducted terrestrial archaeological investigations at the site of The Infinity mixed-use residential complex at 300 Spear Street in the Financial District of San Francisco. The project area is situated on the historic location of an 1852-1857 ship breaking yard. During the course of project excavations, our team of experts encountered, documented, and recovered several hundred ship timbers, artifacts and features related to the breaking yard, including the remains of the *Candace*, an 1818-built whaling ship abandoned in San Francisco in 1855. The San Francisco Museum and Historical Society accepted Tishman Speyer's donation of the remains of the *Candace*. The hull is presently undergoing moderate conservation and will remain in storage until its new home in the historic Pier 70 redevelopment area is finished.





## PROJECT HIGHLIGHTS

# RECHARGE FRESNO PROJECT

City of Fresno, California

Since early 2017, Chronicle Heritage has been working with the City of Fresno in Central California on the massive Recharge Fresno Project, providing paleontological and archaeological monitoring during the project's construction. The aim of the program is to improve the pipelines and water systems that deliver water to homes and businesses across the city - which includes the treatment of surface water from the nearby Sierra Nevada Mountains. Work is currently being conducted in the SW4 segment, which runs through the City's historic Chinatown. Chronicle Heritage experts also collaborated with the City, California State Water Board, and the California State Historic Preservation Office (SHPO) to create a plan for recording and mitigating recent discoveries in the Chinatown area.





## PROJECT HIGHLIGHTS

# HYWIND MAINE PROJECT

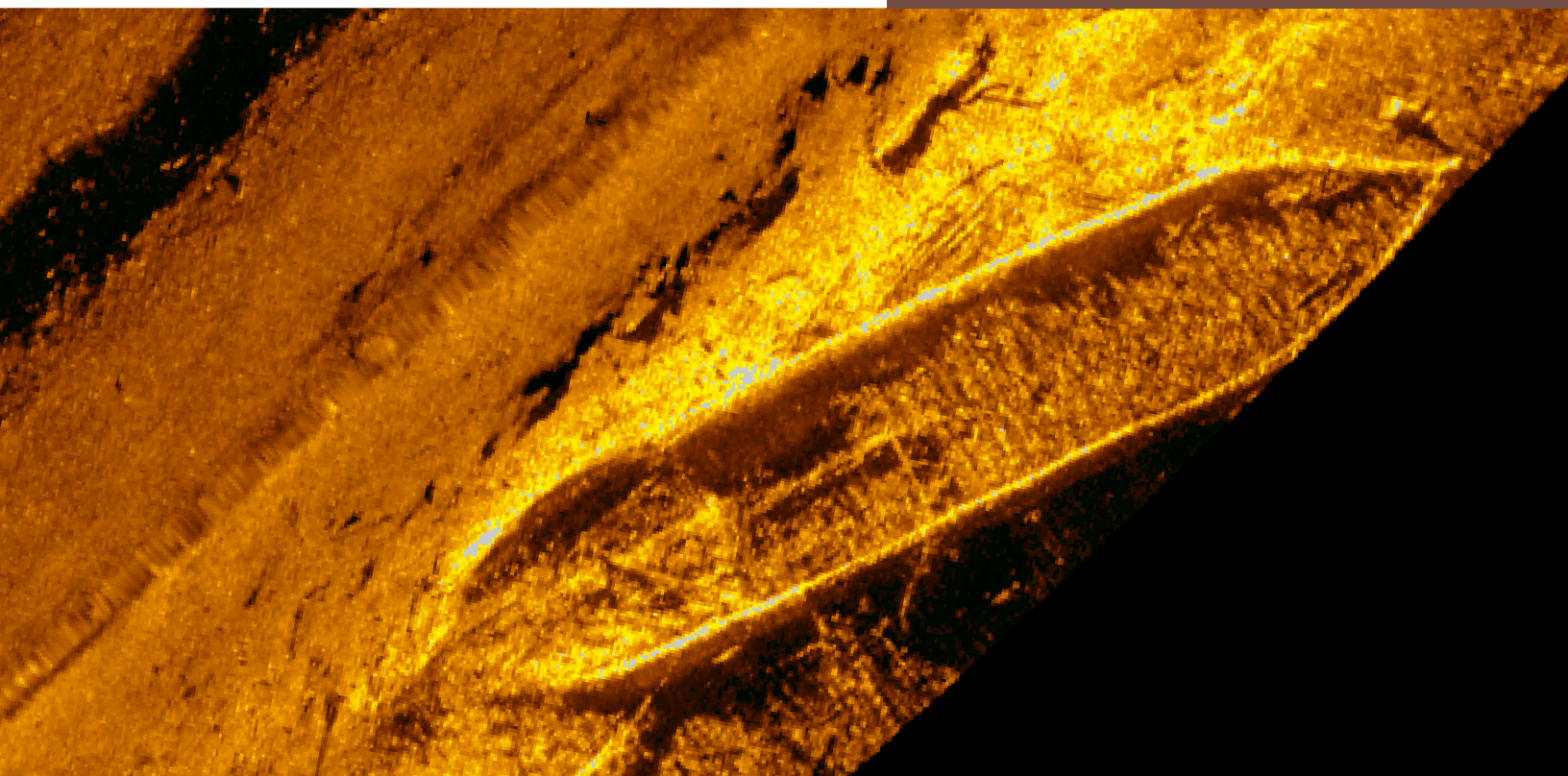
Alpine Ocean Seismic Survey, Inc.,  
Offshore Maine

PanAmerican Consultants, now part of Chronicle Heritage, conducted analysis of remote-sensing data to determine the presence of potentially significant submerged cultural resources in an offshore Project Area in and south of Maine's Boothbay Harbor in state and federal waters. The Project Area included a proposed transmission line to the mainland and an offshore lease block area proposed for wind turbine construction.

Chronicle Heritage analyzed side-scan sonar records and determined 54 images depicted targets with probable structural components. Our experts also reviewed magnetic data revealing nearly 900 anomalies, some indicative of potential shipwrecks. The data were also analyzed for clustering (i.e., presence of grouped anomalies, sidescan targets, and known archaeological sites in any combination). Four anomalies and seven clusters were ultimately presumed to be potentially significant historic cultural resources, and Chronicle Heritage recommended these 11 corresponding areas in the Project Area be avoided during construction.



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## PROJECT HIGHLIGHTS

# MARANA CENTER DATA RECOVERY

Vintage Partners; Tucson, Arizona

To meet a previously impossible deadline for a land-development deal that lay in direct conflict with a large, federally regulated prehistoric archaeological site, Chronicle Heritage leveraged its digital Chronicle Way system. The field component of the project was able to be compressed from a typical 18 weeks to 10 weeks. Moreover, the clearance report was submitted the day after fieldwork was completed and was approved by the lead federal agency, two state agencies, and tribes overseeing the project within 30 days, with Chronicle Heritage's scientifically important work on the Hohokam village site receiving high marks all around. The project stands as the nation's first large-scale all-digital archaeological excavation.

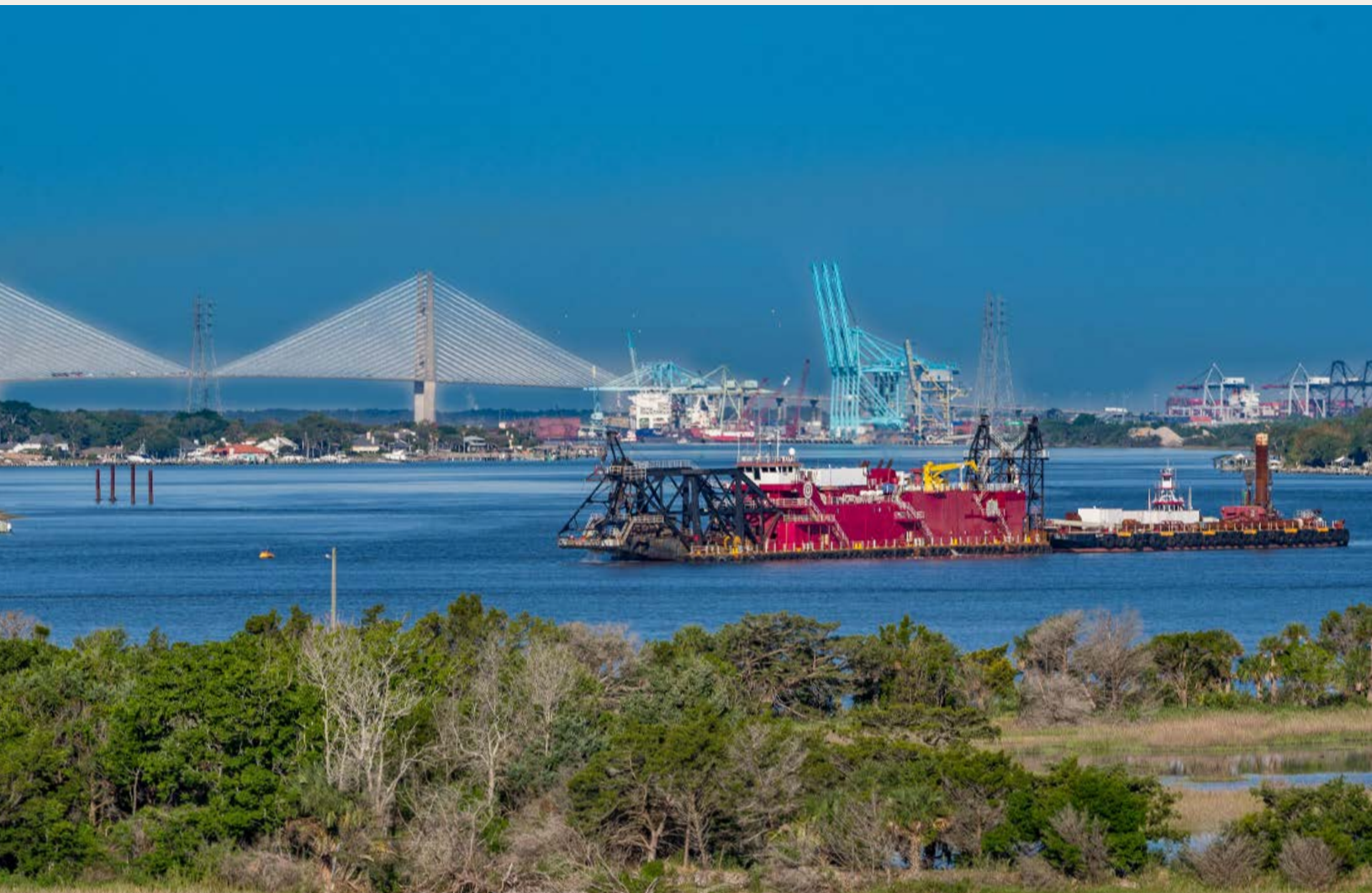


## PROJECT HIGHLIGHTS

### CSS *GEORGIA*, SAVANNAH HARBOR, GA

DCA/GEC, A Joint Venture LLC for Savannah District, USACE and Georgia Ports Authority

Previous surveys identified the remains of the CSS *Georgia*, a Civil War ironclad-ram within the Savannah Harbor Expansion Project APE (SHEP). However, as proposed, the SHEP would have adversely affected this NRHP-listed site. Therefore, in 2015, and under subcontract to DCA/GEC, A Joint Venture LLC for Savannah District, USACE and Georgia Ports Authority, Chronicle Heritage fully archaeologically documented and systematically recovered the remains of the CSS *Georgia* in concert with the U.S. Navy, Supervisor of Salvage and the U.S. Navy's Mobile Diving Salvage Unit 2. Despite zero underwater visibility and other extreme conditions, our archaeologists maximized recovery efforts with a clean safety record and deliverables completed on time with no budget overruns.







Chronicle Heritage completed data recovery investigations and obtained clearance for the parcel from the CAO well over a month ahead of groundbreaking on the project, allowing our client to commence construction on schedule.



## PROJECT HIGHLIGHTS

# LAS CANOPAS LOCUS A DATA RECOVERY

Rivendell Global Estate; Phoenix, Arizona

A parcel of undeveloped private land in Phoenix, Arizona lies within the boundary of Las Canopas, a prehistoric village site where previous archaeological mitigation was never completed due to lack of funding. In advance of a proposed rental apartment community complex within the parcel, the client engaged Chronicle Heritage based on its excellent reputation among Arizonian developers in completing major data recovery projects on or ahead of schedule. Chronicle Heritage conducted extensive data recovery, submitted an End of Fieldwork (EOF) report within two business days after completion of fieldwork, and obtained clearance for the parcel from the City of Phoenix Archaeology Office (CAO) over a month ahead of groundbreaking. These were made possible by Chronicle Heritage's experience fielding sizable field crews, its all-digital workflow, and strong relationships with local reviewing agencies.



A photograph of several wind turbines on a dark, rolling hill under a clear blue sky. The turbines are white with three blades each, and they are spaced out across the landscape.

# STAY ON TRACK WITH ALL-DIGITAL CULTURAL AND HERITAGE RESOURCE MANAGEMENT

**ChronicleHeritage.com**

Info@ChronicleHeritage.com

Tel: 866.563.2536

Fax: 602.254.6280

**ALABAMA**

Tuscaloosa  
205.248.8767

**ARIZONA**

Phoenix  
602.261.7253

Tempe  
480.894.5477

Tucson  
520.918.5512

**CALIFORNIA**

S.F. Bay Area  
925.253.9070

Fresno  
559.490.6880

Los Angeles  
626.408.8006

Redlands  
909.254.4035

Sacramento  
916.384.0251

San Diego  
619.210.0199

**COLORADO**

Denver  
303.214.4301

Ignacio  
970.563.4615

**FLORIDA**

Gainesville  
352.372.2633

Lakeland  
813.508.5686

Pensacola  
706.499.5449

Tallahassee  
850.296.3669

Tampa Bay  
727.940.9480

**GEORGIA**

Columbus  
706.565.6179

**MASSACHUSETTS**

Littleton  
978.793.2579

**MICHIGAN**

Dexter  
517.788.3550

Traverse City  
517.262.3376

**MINNESOTA**

Minneapolis  
763.354.9313

**NEVADA**

Las Vegas  
702.779.3033

Reno  
775.954.0052

**NEW MEXICO**

Albuquerque  
505.516.0261

**NEW YORK**

Buffalo  
716.821.1650

New York  
212.567.2536

**NORTH CAROLINA**

Tarboro  
252.641.1444

**OHIO**

Columbus  
614.549.6190

**OREGON**

Portland  
971.801.0677

**PENNSYLVANIA**

Philadelphia  
610.245.9074

West Chester  
610.436.9000

**TENNESSEE**

Memphis  
901.454.4733

**TEXAS**

Austin  
512.394.7477

**UTAH**

Ogden  
801.394.0013

Salt Lake City  
801.203.4445

**VIRGINIA**

Chantilly  
703.354.9737

Richmond  
336.402.6631

**WISCONSIN**

Milwaukee  
414.446.4121