

BEC Statement of Qualifications

BEC Environmental, Inc.

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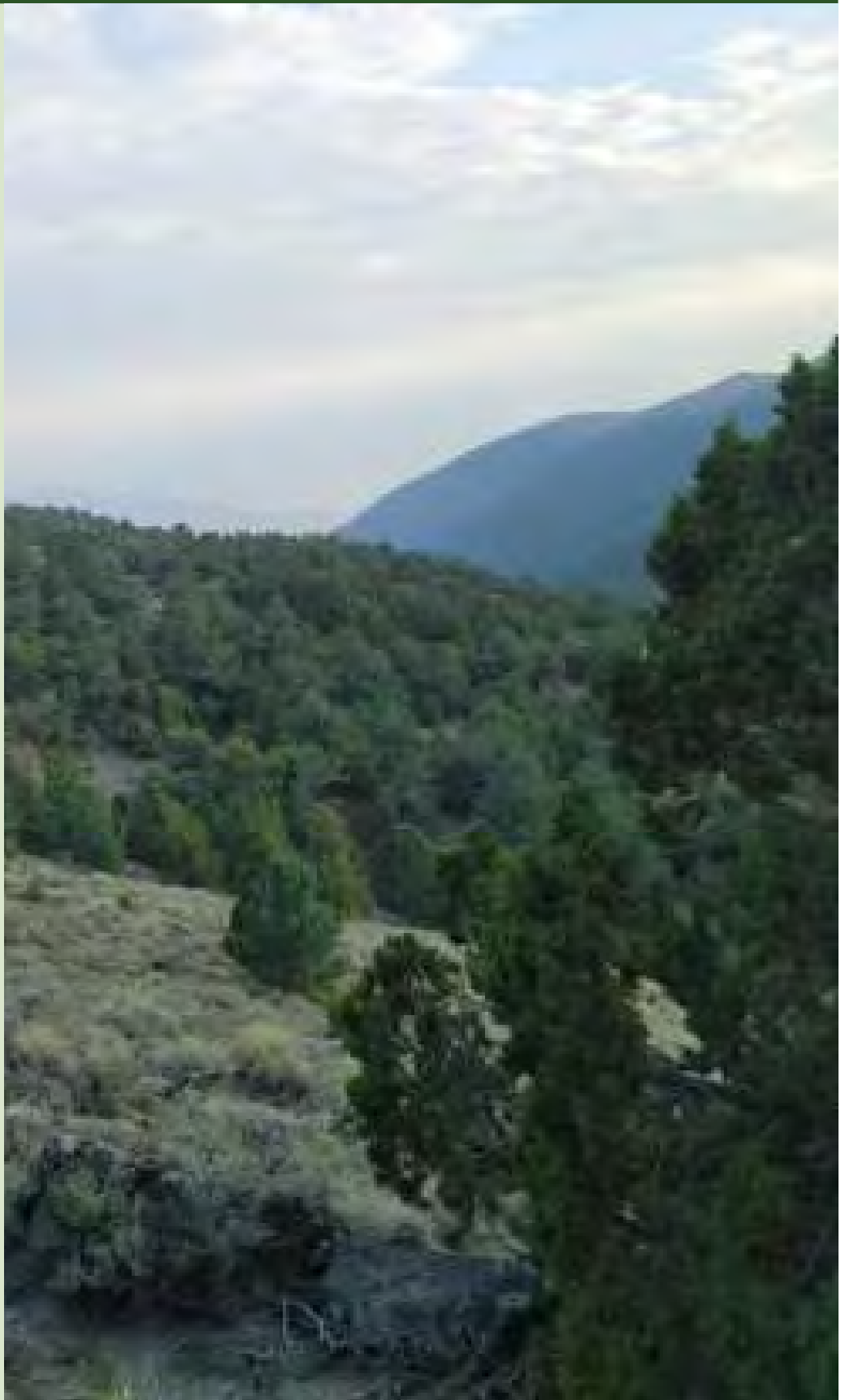
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bec environmental, inc.



Company Profile

BEC Environmental, Inc. (BEC) is a full-service environmental consulting firm established in 2002. BEC provides technical support to all levels of government and private industry to promote sustainable socioeconomic development. We pride ourselves on working cooperatively with our clients to achieve their objectives, while protecting natural resources and human health. BEC provides exceptional quality of service at every level of our corporate structure. We are aggressive in expanding our economic market, while selective in our overall strategy to ensure quality service. BEC consistently exceeds the code of ethics for the environmental profession.

Team Training, Certifications, & Permits

- ❖ Asbestos Abatement Consultant - State of Nevada
- ❖ Asbestos Hazard Emergency Response Act (AHERA) Certified Building Inspector
- ❖ AHERA Certified Project Designer
- ❖ Certified Commercial Mold Inspection
- ❖ Certified Environmental Manager (CEM) - State of Nevada
- ❖ Certified Radon Measurement Technician
- ❖ Desert Tortoise Field Techniques Workshop
- ❖ EPA Lead Inspector and Lead Risk Assessor
- ❖ First Aid/CPR/AED
- ❖ HUD Environmental Review Training - Federal
- ❖ OSHA 30 Hour Construction Safety
- ❖ OSHA HAZWOPER, Construction Safety & Health, Asbestos Awareness, Annual Refreshers
- ❖ Radon Measurement
- ❖ Stormwater Pollution Prevention Plan (SWPPP) Development & Inspection
- ❖ Water Pollution Control Manager Training

Memberships

- ❖ American Council of Engineering Companies (ACEC)
- ❖ Associate Member of Nevada Association of Counties (NACO)
- ❖ Associated General Contractors (AGC)
- ❖ Desert Tortoise Council (DTC)
- ❖ National Association of Environmental Professionals (NAEP) Arizona and Nevada
- ❖ Women's Business Enterprise National Council (WBENC)

NAICS Codes

- 541620** Environmental Consulting Services
- 541690** Other Scientific & Technical Consulting Services
- 541990** All Other Professional, Scientific, & Technical Services
- 562910** Environmental Remediation Services
- 924110** Administration of Air & Water Resource & Solid Waste Management Programs

Corporate Certifications

- Disadvantaged Business Enterprise (DBE)** Arizona and Nevada
- Emerging Small Business (ESB)** Nevada
- Woman Business Enterprise (WBE)** Federal and California Supplier Clearinghouse
- Woman-Owned Small Business (WOSB)** Federal

Service Profile

BEC provides a wide range of environmental consulting services to meet our client's needs. We use the diverse experience and knowledge of our team to deliver exceptional quality at competitive prices, while understanding the unique characteristics affecting projects in the region. Our team members are familiar with local environmental conditions, sources of environmental information, relevant policy requirements, government and industry personnel, and project management standards.

Service Categories

Natural & Water Resources

- ❖ Aquatic Resource Delineation (Waters of the US)
- ❖ Endangered Species Act Consultation & Permitting
- ❖ Habitat Conservation Planning Support
- ❖ Biological Assessments & Evaluations
- ❖ Botanical Surveys (rare plants, cactus/yucca, weeds)
- ❖ Desert Tortoise Surveys, Monitoring, & Mitigation
- ❖ Migratory Bird Surveys & Reporting
- ❖ Wildlife Resource Surveys

NEPA Analysis, Document Development, & Support

- ❖ Environmental Impact Assessment & Documentation (CE, ER, EA, EIS)
- ❖ BIA, BLM, DOD, DOE, DOT, HUD, NPS, USFWS Specific NEPA Guidelines
- ❖ State Environmental Impact Studies/Assessments
- ❖ Regulatory & Resource Agency Consultation & Liaison
- ❖ Resource Area Surveys, Data Collection, & Impact Evaluations
- ❖ Public Outreach & Stakeholder Engagement
- ❖ SHPO Documentation/Section 106 Consultations

Planning and Community Support

- ❖ Grant Development and Management
- ❖ Community Outreach
- ❖ Community Training
- ❖ Plan Development
- ❖ Stakeholder Engagement
- ❖ Public Meeting Facilitation
- ❖ Desktop Studies
- ❖ Research and Analysis
- ❖ Economic Development Support

Brownfields Program Management & Implementation

- ❖ Site Identification & Inventory Development
- ❖ Government Liaison & Relations
- ❖ Environmental Site Characterization
- ❖ Outreach Coordination & Stakeholder Engagement
- ❖ Analysis of Brownfield Cleanup Alternatives (ABCA)
- ❖ Cleanup Planning & Oversight
- ❖ Reuse Planning

Environmental Site Characterizations

- ❖ Phase I & II Environmental Site Assessments
- ❖ Regulated Building Material Surveys
- ❖ Asbestos-containing Materials (ACM) Surveys
- ❖ Chemical Inventories
- ❖ Lead-based Paint Inspection & Risk Assessment
- ❖ Commercial Mold Inspection
- ❖ Radon Measurements
- ❖ Sampling & Analysis Plans/ Work Plans
- ❖ Agency Coordination

Permitting, Compliance Monitoring, and Environmental Oversight

- ❖ Biological Resources Permitting & Compliance Monitoring
- ❖ Federal Land ROW Lease Acquisition & Permitting
- ❖ Owner's Environmental Representative
- ❖ Solid Waste Facility Inspections & Oversight
- ❖ Stormwater Pollution Prevention Plan Inspections
- ❖ Groundwater Protection Inspections & Compliance
- ❖ Hazardous Material Remediation/Cleanup Oversight



Client Profile

BEC's clients include federal, tribal, state, and local governments; private industry; and non-profit organizations. We focus on serving the immediate project needs of our clients across the western United States, while also committing to long-standing relationships to better understand their holistic needs. We maintain our commitment to extended stakeholder relationships and provide quality, cost-effective services. In these symbiotic relationships we are rewarded with and provide exceptional loyalty to and from our clients.

Partial Client List

Federal & Tribal

- ❖ Duckwater Shoshone Tribe of the Duckwater Reservation
- ❖ Moapa Band of Paiute Indians of the Moapa River Indian Reservation
- ❖ U.S. Army Corps of Engineers
- ❖ U.S. Bureau of Land Management
- ❖ U.S. Bureau of Reclamation

State

- ❖ Nevada Division of Environmental Protection
- ❖ Nevada Division of State Parks
- ❖ Nevada Housing Division
- ❖ Nevada System of Higher Education

County

- ❖ Clark County
- ❖ Clark County Desert Conservation Program
- ❖ Inyo County (CA)
- ❖ Lincoln County
- ❖ Mineral County
- ❖ Nye County
- ❖ White Pine County

Industry

- ❖ ARES Nevada, LLC
- ❖ C&S Waste Solutions
- ❖ First Solar, Inc.
- ❖ LS Power

Municipal

- ❖ City of Fallon
- ❖ City of Henderson
- ❖ City of Las Vegas
- ❖ City of North Las Vegas
- ❖ City of Reno
- ❖ Town of Pahrump
- ❖ Town of Tonopah

Engineering & Construction

- ❖ AECOM
- ❖ CA Group, Inc.
- ❖ Broadbent & Associates (AZ & NV)
- ❖ GCW Engineering, Inc.
- ❖ High Road Engineering
- ❖ Jacobs Engineering
- ❖ Nova Geotechnical & Inspection Services
- ❖ Whiting-Turner Contracting Company
- ❖ Wood Rodgers, Inc.
- ❖ WSP

Environmental

- ❖ 4LEAF Consulting, LLC
- ❖ Broadbent & Associates, Inc.
- ❖ Converse Consultants
- ❖ Kleinfelder
- ❖ McGinley & Associates
- ❖ SWCA Environmental, Inc.
- ❖ Tetra Tech

Non-Profits

- ❖ Nevada HAND
- ❖ NyE Communities Coalition





BEC Team

Team Profile

BEC's multidisciplinary team specializes in key resource areas such as biology, business administration, environmental science and policy, geology, hydrology, political science, public safety, systems management, and urban planning. This broad range of expertise is ideal for addressing complex projects involving the National Environmental Policy Act (NEPA), brownfields, environmental site characterization, source water and wellhead protection, grant applications, regulatory permitting and compliance, and renewable energy development.

Leadership Team



Eileen Christensen, CEM
Principal

- ❖ Brownfields consulting
- ❖ Environmental compliance
- ❖ Grant services
- ❖ Site characterization and remediation



Elizabeth Nelson
Chief Financial Officer

- ❖ Corporate management
- ❖ QA/QC
- ❖ Systems development
- ❖ Training



Richard Nelson
Executive Vice President

- ❖ NEPA compliance
- ❖ Public safety support
- ❖ QA/QC
- ❖ Risk management

Project Management Team



Erika Balderson
Senior Environmental Scientist

- ❖ Asbestos inspection & project design
- ❖ Environmental permitting/compliance
- ❖ NEPA analysis/compliance
- ❖ Radon measurement



Danny Rakestraw
Senior Biologist

- ❖ Compliance oversight
- ❖ Endangered species permitting
- ❖ NEPA analysis/compliance
- ❖ Wetland delineation



Stefanie Costa Rica, CEM
Environmental Scientist

- ❖ Phase I and Phase II ESA
- ❖ Environmental sampling
- ❖ Asbestos surveys and visual clearances
- ❖ Technical writing and reviewing



Brenda Gilbert
Program Manager

- ❖ Program management
- ❖ Stakeholder engagement
- ❖ Community engagement
- ❖ Strategic planning

Project Support Team



Giavanna Fernandez
Environmental Scientist

- ❖ Asbestos inspection
- ❖ Phase I and II ESA
- ❖ Technical writing
- ❖ Data management



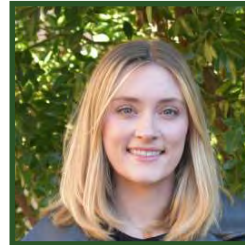
Vivian Sam
**Environmental Scientist,
Botanist**

- ❖ Biological surveys/studies
- ❖ Data management
- ❖ Technical writing
- ❖ Presentations



Juan Garcia-Hernandez
Environmental Scientist

- ❖ Biological surveys/studies
- ❖ Data management
- ❖ Technical writing
- ❖ GIS support



Evandy Severt
Environmental Scientist

- ❖ Biological surveys/studies
- ❖ GIS support
- ❖ Presentations
- ❖ Data management



Tommy Heider
Desert Tortoise Biologist

- ❖ Biological surveys
- ❖ Desert Tortoise surveys
- ❖ ArcGIS
- ❖ Data collection



Autumn Smith
Environmental Technician

- ❖ Phase I ESA preparation
- ❖ ArcGIS support
- ❖ Environmental sample analysis
- ❖ Grant research



Alana Holt-Hall
Environmental Scientist

- ❖ GIS support
- ❖ Grant research
- ❖ Lead inspection & risk assessment
- ❖ Phase I ESA

Admin. Management & Support Team



Anthony Acosta

Project Support

- ❖ Administrative support
- ❖ Health and Safety Support
- ❖ Marketing Support
- ❖ Project Support



Becky Putman

Accounting Manager

- ❖ Budgets
- ❖ Financial compliance
- ❖ Strategic financial analysis
- ❖ Small business compliance

Team Profile

Eileen Christensen is the Principal for BEC Environmental, Inc., which she founded in 2002. She has more than 30 years of experience in environmental, health, and safety consulting. During that time, she has served as Project Manager for a variety of environmental projects for local, state, federal, and foreign governments and private industry. Eileen specializes in sustainable community and economic development, focusing on the nexus between brownfields identification, assessment, and reuse; clean energy development; efficient water use; and water quality protection. Eileen works with local residents, governmental leaders, and other stakeholders to identify potential mechanisms to bring their vision for community, growth, and/or revitalization to fruition through advanced planning, funding identification, and project facilitation.

Eileen is responsible for oversight of BEC's technical projects and programs and supervision of BEC and subcontracted professionals. She provides Brownfields Program management and consultation; conducts site characterization and remediation oversight for contaminated sites; conducts environmental assessments; performs compliance audits related to hazardous materials management issues; provides hazardous materials management and general health and safety training; and develops health and safety plans and programs.

Eileen works within an extensive network of business and community leaders to connect stakeholders and expand opportunities for BEC's clients. As the Program Manager for the Nevada Division of Environmental Protection (NDEP) Source Water Protection contract, she worked with NDEP staff to modify the State's approach from system-specific to County-wide to facilitate integrated management of water resources by local governments. She helped Nye County, Nevada, expand its Brownfields Program to include five other counties (four in Nevada and one in California) and a tribal government to promote a regional approach to economic development and diversification, while expanding awareness of environmental best management practices.

Her expertise includes Phase I and II Environmental Assessments; EPA and OSHA compliance audits; contamination assessments; remedial action projects; state and federal environmental permitting; emergency response to hazardous materials incidents; hazardous materials management training; and training program development and implementation.

B. Eileen Christensen *Principal*



Education and Training

Bachelor of Science, Geology, Florida International University
ADOT DBE Business Development Program
DOT Safe Transportation of Hazardous Materials
EPA Hazardous Materials/Hazardous Waste First Aid/CPR/AED
OSHA Emergency Response Supervisor-Level
OSHA Emergency Response Technician-Level
40-Hour OSHA HAZWOPER
PSMJ Managing A/E Contract under FAR and AASHTO
PSMJ Principal Boot Camp
PSMJ Project Management Boot Camp
Remediation Technology Annual Workshops

Professional Certifications

Environmental Manager, State of Nevada, Certification No. 1694
Stormwater Pollution Control Manager

Areas of Expertise

- ❖ Environmental compliance
- ❖ Grant writing
- ❖ Hazardous materials management
- ❖ Program management
- ❖ Safety and health training
- ❖ Site characterization and remediation
- ❖ Stakeholder engagement
- ❖ Sustainable economic development

Team Profile

Elizabeth Nelson is the CFO for BEC. She has more than 30 years' experience working in public practice with businesses to enhance profitability. Elizabeth oversees process control, including quality assurance and quality control, and provides training and mentoring for the BEC team.

Elizabeth has served on the Boards of Directors for community and professional organizations to promote socially- and fiscally-responsible causes. She has been an active volunteer for numerous organizations, including the Southern Nevada Recycling Advisory Committee (RAC), the Southern Nevada Woody Biomass Collaboration (SNWBC), the Nevada Recyclers Association (NRA), and the UNLV Environmental Studies Department Advisory Board. Elizabeth was recently asked to serve on the President's Council for Saint Leo University. Her professional experience and personal interests provide her with a unique perspective on the economic impacts of socio-environmental measures and the imperative need for environmental stewardship.

Elizabeth was responsible for hiring a 450-member crew in a 24-hour period for Christo's Surrounded Islands project in Miami, Florida. She worked for the Project Engineer who brought Christo's design to life. The team hired included experts in marine biology and environmental engineering. That team constructed the project, performed round-the-clock monitoring of the exhibit, and then deconstructed the exhibit which was a temporary installation of 6.5 million square feet of pink fabric wrapped around 11 islands in Biscayne Bay for two weeks to showcase the integral nature of land and water to the local lifestyle. The fabric was later given to a bird refuge to use in their exhibits.

Elizabeth's responsibilities for BEC entail expanding opportunities for recycling and increasing markets for recycled products. She works through community organizations and local government to promote conservation projects consistent with the "reduce, reuse, recycle" model for waste minimization. She facilitates land use planning and zoning permits to designate areas for responsible waste management and recycling; enlists community organizations to introduce innovative concepts for recycling; develops incentives to promote near-source recycling; and works with colleges and universities to expand student internship opportunities within the environmental community.

Elizabeth has assisted with organizing events ranging from a Job Fair in Pahrump to promote skill diversifications and employee/employer outreach to seven renewable energy workshops in Nye County that promoted development of public-private relationships and county-wide economic diversification.

B. Elizabeth Nelson *Chief Financial Officer*



Education and Training

Master of Accounting, Taxation, Nova University
Bachelor of Arts, Accounting, Saint Leo University
Clark County Business Development Education Program
Executive Profitability Strategy Program, University of Nevada Las Vegas
ADOT DBE Business Development Program
First Aid/CPR/AED
PSMJ Managing A/E Contract under FAR and AASHTO

Professional Certifications

Certified Public Accountant, State of Florida
Enrolled Agent, Internal Revenue Service

Areas of Expertise

- ❖ Household hazardous waste management
- ❖ Management advisory services
- ❖ Permitting
- ❖ Quality assurance/quality control
- ❖ Solid waste minimization
- ❖ Systems development
- ❖ Training

Team Profile

Richard Nelson is a systems management specialist whose talents range from the preparation of critical path schedules to managing multi-disciplinary projects involving planning, construction, general operations, and maintenance. A retired U.S. Air Force officer, Richard's project experience spans more than 30 years and covers careers in the military, corporate business, and consulting. He is adept at coordinating resource allocation with multiple system interactions. He reviews system needs and identifies resource requirements for each project, schedules deadlines or milestones based on regulatory requirements, and/or resource availability, and works to optimize project performance and reduce time frame requirements.

His career encompasses working and negotiating with government agencies (local, state, federal, foreign, and tribal) and private entities. He has a successful track record of dispute resolution – creating partnerships with stakeholders with whom he and his organizations have interfaced.

Richard's military project experience entailed coordination of strategic and tactical elements of intelligence and investigative planning, training, and active operations. He planned, organized, and directed an Operations Training Program for 120 personnel, and directed preparations for worldwide no notice deployment of the unit.

Richard provided technical support to Nye County's Oversight of U.S. Department of Energy (DOE) local activities. He directed BEC's preparation of a Nye County Public Safety Report, recommending the possible public safety, communications, and related service areas for the County and DOE support, cooperation, and integration. He developed Memorandum of Understanding between Nye County and federal agencies as well as Cooperative Agreements between Nye County and the DOE. He coordinated Nye County and renewable energy developer communications with the Federal Energy Regulatory Commission, Department of Defense, Bureau of Land Management, and other federal and state agencies. Richard has provided support to Esmeralda and Nye Counties and the DOE in support of National Environmental Policy Act (NEPA) assessments and reviews. He also provided comments and suggestions that were incorporated into the Bureau of Land Management Final Programmatic Environmental Impact Statement for Solar Energy Development in Six Southwestern States, the subsequent BLM Regional Mitigation Framework, and the Dry Lake Solar Energy Zone Regional Mitigation Strategy.

Richard's professional memberships include the Society of American Military Engineers and Association of Former OSI Special Agents.

Richard H. Nelson

*Senior Project Manager/
Executive Vice President*



Education and Training

Master of Science, Systems Management, University of Southern California

Bachelor of Science, Law Enforcement, Southwest Texas State University

Academic Instructor, US Air Force

Advanced Narcotics Investigation, Wyoming Law Enforcement Academy

First Aid/CPR/AED

PSMJ Project Management Boot Camp

Special Investigations, Air Force Office of Special Investigations (AFOSI)

Special Operations School – Dynamics of International Terrorism, US Air Force

Professional Certifications

40- Hour OSHA HAZWOPER

Areas of Expertise

- ❖ Facilitation
- ❖ NEPA analysis
- ❖ Oversight
- ❖ Project management

Team Profile

Erika Balderson has more than 20 years of experience in the fields of biology, ecology, and environmental compliance. Working for private consulting firms, government and state agencies, and the U.S. Coast Guard, she has served as a project manager, environmental scientist, biologist, inspector, and researcher. She is an expert on housing and urban development, as well as certified in Hazardous Materials inspection. Erika is serves as Operations Management and Safety Officer at BEC.

As a Project Manager and Field Team Supervisor, Erika conducts sensitive plant and animal population surveys for multiple state, federal, and tribal agencies on federal, tribal, and private lands throughout the southwest. She prepares reports in support of field surveys, including Biological Assessments and Environmental Assessments.

Erika assists clients with permit identification and compliance, Plan of Development drafting, and field survey coordination. She oversaw development and implementation of the Nevada Wellhead Protection Program as well as preparation of local wellhead protection plans.

As a biologist, she assists on surveys for Mojave desert tortoise (*Gopherus agassizii*), burrowing owl (*Athene cunicularia*), and sensitive plant species for the U.S. Army Corps of Engineers, Bureau of Land Management, Bureau of Reclamation, U.S. Forest Service, and private projects.

Erika conducts numerous air, soil, and water quality sampling assessments in accordance with regional, county, and state regulations in California, Nevada, and New Mexico. Erika is a licensed Asbestos Abatement Consultant, Asbestos Building Inspector Project Designer, Radon Measurement Professional, and Lead-Based Paint Risk Assessor in Nevada and has conducted asbestos sampling and reporting for projects in Las Vegas and rural Nevada.

Her work includes monitoring construction site activities for compliance with Bureau of Land Management and U.S. Fish and Wildlife Service Biological Opinions, Storm Water Pollution Prevention Plans, and the California Clean Air Act.

Erika Balderson
Senior Environmental
Scientist, Project Manager



Education and Training

Master of Science, Biology, University of Nevada, Reno, 2006

Bachelor of Science, Zoology, Colorado State University, 1994

40-Hour OSHA HAZWOPER Certification – 2008, annual refreshers

Asbestos Project Designer – 24-hour course, annual refreshers

Asbestos Building Inspector – 24-Hour course, annual refreshers

HUD Part 58 Environmental Review and HEROS system training

Professional Certifications

Approved AHERA Building Inspector – (CA-089-05) – 2016, annual renewal

Certified AHERA Project Designer (4614-1581-091720) – 2020, annual renewal

Certified SWPPP Inspector - 2008

EPA Lead Inspector (LBP-R-1196099-1) - 2018

EPA Lead Risk Assessor (LBP-R-1196099-1) – 2018, triennial renewal

First Aid/CPR/AED, CPR Society – biennial renewal

HAZWOPER General Site Worker - 2008

NRPP Certified Radon Residential Measurement Provider (NRPP ID 110923 RT) – 2019, biennial renewal

Areas of Expertise

- ❖ Asbestos inspection
- ❖ Biological surveys
- ❖ Environmental permitting and compliance
- ❖ NEPA analysis and compliance
- ❖ Stormwater pollution prevention planning

Team Profile

Danny has more than 30 years of professional experience in the environmental sciences, permitting, and regulatory compliance industry. He has provided technical, management, marketing, and strategic planning support for engineering and environmental consulting firms and the clients he has served. His experience includes supporting and managing interdisciplinary teams and projects in the areas of fossil fuel and renewable power generation and transmission; rail, highway and airport facilities; water resources; land development; mining; and federal programs. He has effectively coordinated commercial, state, and federal clients through numerous regulatory processes including Endangered Species Act, Environmental Impact Assessments, and Clean Water Act Section 404.

Danny's project management experience ranges from small task orders to multi-million-dollar programs. He has been successful through client-focused project planning, clear scope identification, effective cost and schedule controls, team communication and management, and effective coordination with clients and regulatory agencies. His success with project management is the key factor in establishing a long-standing, loyal client base.

Danny has provided an array of clients with scientific and regulatory support related to biological and other natural resources. His expertise includes habitat characterization and assessments, sensitive species inventories, life history studies, conservation and mitigation planning, site/corridor planning and suitability studies, impact assessments, regulatory permitting/agency consultation, and compliance monitoring and owner-agency liaison support. He has been approved by the U.S. Fish and Wildlife Service under the Endangered Species Act as authorized Mojave desert tortoise biologist on numerous for the last 30 years.

Danny has managed multi-disciplinary project teams with up to 60 staff including engineers, biologists, archaeologists, environmental scientists, planners, hydrologist, and other subject matter experts. The success of these teams was enhanced by his strategic planning, client relationships and management, effective project controls, and facilitation of the growth of his team members. He has a unique combination of business intelligence, team management skills, and technical expertise which he uses to assist his clients achieve successful projects.

Danny Rakestraw
*Senior Biologist,
Project Manager*



Education and Training

Master of Science, Wildlife and Fisheries Sciences, Texas A&M University

Bachelor of Science, Wildlife and Fisheries Sciences, Texas A&M University

Applying the NEPA/CEQA Process – Overview

Applying the NEPA Process and Writing Effective NEPA Documents

Desert Tortoise Handling and Conservation Workshop (Trainee and Instructor)

Field Survey Protocol for Southwestern Willow Flycatcher

First Aid/CPR/AED

OSHA 30-Hour Training for Construction and General Industry

OSHA Class IV Naturally Occurring Asbestos Awareness

Wetland Delineation Training

Win-Win Contract Negotiation Workshop

Areas of Expertise

- ❖ Biological surveys
- ❖ Desert tortoise compliance support
- ❖ Endangered species permitting and compliance
- ❖ NEPA analysis and compliance
- ❖ Project management
- ❖ Wetland delineation

Team Profile

Stefanie Costa Rica is a Nevada Certified Environmental Manager (CEM) and Environmental Scientist with BEC. She has 12 years of experience in environmental consulting and extensive knowledge of the Nevada Division of Environmental Protection and their reporting requirements for discovery events, quarterly sampling and monitoring, and A-K Closure Letters. Stefanie is a proficient technical writer and reviewer of Phase I and Phase II Environmental Site Assessments.

Stefanie has worked in community outreach through the Rural Desert Southwest Brownfields Coalition across six counties in Nevada and California. Stefanie's responsibilities include project management, technical reporting, agency communication and client coordination for brownfield programs.

Stefanie has assisted communities in Nevada apply for and manage state and federal grant funding. Stefanie conducted training as an instructor for the Environmental Workforce Development and Job Training Programs in Pahrump, Nevada.

Stefanie's field expertise includes: CEM oversight for compliance with sampling and analysis plans, soil excavation and confirmation sampling, groundwater sampling using low-flow technology, and monitoring well installation. As a certified Asbestos Hazard Emergency Response Act (AHERA) Building Inspector and Contractor/Supervisor, she has participated in hazardous materials surveys and performed visual clearances for demolition and renovation projects.

Stefanie Costa Rica *Environmental Scientist*



Education and Training

Bachelor of Science in Geology, North Dakota State University, Fargo, ND, 2005

First-Aid / CPR / AED

40-Hour HAZWOPER Certification – 2005, annual refresher

ASTM Training – Phase I & Phase II Environmental Site Assessment Processes - 2018

OSHA 10 Hour Construction - 2016

PSMJ Project Management Boot Camp

Professional Certifications

Nevada Certified Environmental Manager (2453) – 2018, biennial renewal

Certified AHERA Building Inspector (ON4644-12289-071221) - 2015, annual renewal

Certified AHERA Contractor/Supervisor (ON-4649-12289-072321) -2016, annual renewal

State of Nevada Licensed Asbestos Abatement Consultant (IM-1890) – 2015, annual renewal

Areas of Expertise

- ❖ Asbestos inspection
- ❖ Brownfields consulting
- ❖ Environmental compliance
- ❖ Environmental monitoring and surveys
- ❖ Project management
- ❖ Site characterization
- ❖ Soil/water collection and analysis

Team Profile

Brenda Gilbert is BEC's Northern Nevada Program Manager and has more than 30 years of experience in private and Non-government Organization (NGO) program management. As the Development Director for the Truckee River Watershed Council, she built and implemented a strategic plan to secure unrestricted and restricted funding sources to make possible planning and budgeting for 50 restoration projects over a ten-year period resulting in improved water quality, habitat diversity, and ecologic resilience.

At BEC she has been instrumental in developing energy policy and building interest in utility scale renewable energy projects throughout Nevada. She led BEC's team for the Nevada Solar Nexus Project, a Nevada System of Higher Education (NSHE) program to explore the relationship between solar energy, water, and environmental research. She worked with NSHE institutions to develop relationships between utility-scale developers, university professors, and brownfields professionals to explore opportunities for collaboration. Throughout her career, Brenda has demonstrated the ability to engage dissimilar entities to organize and execute complex projects.

Brenda Gilbert
Program Manager



Education and Training

Master of Science, Oklahoma University

Bachelors of Science, Iowa State University

FEMA National Incident Management Training and FEMA Regional Safety

Collaboration –Tribal Training, Reno, Nevada

Grant Management Workshop, Grant Management USA, Carson City, Nevada

Grant Writing Workshop, U.S. Department of Housing and Urban Development, Reno, Nevada

Project Management Boot Camp, PSMJ Resources, Inc., Las Vegas, Nevada

Excellence in Non-profit Management Institute, UNLV, Reno, NV

Truckee River Tour of the Watershed, Janet Phillips, Reno, NV

Areas of Expertise

- ❖ Project management
- ❖ Stakeholder engagement
- ❖ Community engagement
- ❖ Strategic planning
- ❖ Grant proposals
- ❖ Meeting facilitation

Team Profile

Giavanna is an Environmental Scientist for BEC Environmental, Inc. She has received a Bachelors of Science in Environmental Management from the College of Southern Nevada. Giavanna has 2 years field and lab experience collecting, sampling, and analyzing desert soils as well as conducting small mammal surveys and has 2 years of experience in environmental consulting. Giavanna is certified as an AHERA asbestos building inspector and contractor supervisor, and EPA Lead inspector. Her consulting experience includes site characterization and assessments, environmental sampling such as soil, air, and groundwater, conducting Phase I and II ESAs, and conducting biological surveys/studies in the State of Nevada.

Giavanna provides project support for a wide variety of environmental projects, including Environmental Site Characterizations and NEPA Analysis. She has drafted Phase I and II ESA reports, environmental reviews, biological assessments and has assisted with planning initiatives to promote economic development, conservation and preservation, and researched opportunities for local, state, and federal agencies as well as private clients throughout Nevada.

Additionally, Giavanna has conducted Mojave desert tortoise monitoring and clearance surveys for various projects, assisted in monarch habitat surveys, conducted habitat assessments, developed biological resources reports, and conducted Waters of the US (WOUS) aquatic delineation surveys.

Giavanna Fernandez *Environmental Scientist, Field Safety Administrator*



Education and Training

Certification of Ecology, Rice University, Nevada, Las Vegas, 2023

Bachelors of Science, Environmental Management, College of Southern Nevada, Las Vegas, 2022

First-Aid / CPR / AED

Professional Certifications

40-Hour OSHA HAZWOPER

30-Hour construction

EPA Lead-Based Paint Inspector

Asbestos Abatement Consultant

AHERA Asbestos Inspector

AHERA Asbestos Contract/Supervisor

Areas of Expertise

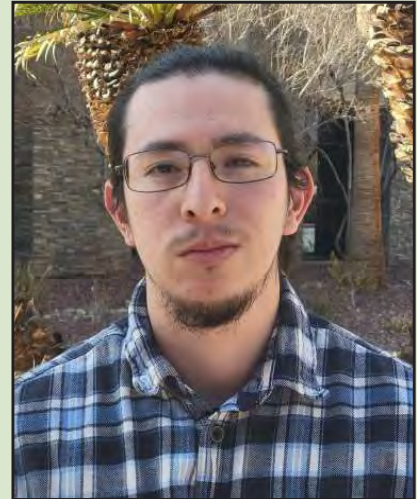
- ❖ Hazardous materials inspection
- ❖ Phase I & II ESAs
- ❖ Technical writing
- ❖ Document preparation
- ❖ Presentation
- ❖ Biological surveys/studies
- ❖ Desert tortoise monitoring
- ❖ Data management

Team Profile

Juan is an Environmental Scientist at BEC Environmental, Inc. He received his Bachelors of Science in Environmental Resource Management from College of Southern Nevada, Las Vegas. Through his graduate education and professional experience, he has three years of field and laboratory experience in conducting field surveys, managing and analyzing data, , as well as developing and delivering technical reports and presentations. He assisted the College of Southern Nevada and University of Reno, Nevada in conducting small mammal surveys and developing a specimen collection. He has worked alongside non-profit conservation organizations where he assisted in community outreach, marketing, and project coordination.

Juan provides project support for a wide variety of environmental projects, including Environmental Site Characterization, and National Environmental Protection Act (NEPA) Analysis. He has drafted Phase I and II Environmental Site Assessments, U.S. Department of Housing and Urban Development compliant Environmental Assessments, and Nevada State Historic Preservation Office Section 106 Packages. He has assisted with planning initiatives to promote economic development, conservation and preservation, and researched opportunities for local, state, and federal agencies as well as private clients throughout Nevada.

Juan Garcia-Hernandez
Environmental Scientist



Education and Training

Bachelor of Science in Environmental Resource Management, College of Southern Nevada, Las Vegas

Associates of Environmental Management, College of Southern Nevada, Las Vegas

Associates of Science, College of Southern Nevada, Las Vegas

First-Aid / CPR / AED

Professional Certifications

40-Hour OSHA HAZWOPER

10-Hour OSHA Construction

Water Pollution Control Manager

Areas of Expertise

- ❖ GIS
- ❖ Data management
- ❖ Technical writing
- ❖ Stormwater Pollution Prevention Planning (SWPPP)

Team Profile

Tommy is a Desert Tortoise Monitor and Wildlife Biologist at BEC Environmental, Inc. He received his Bachelor of Science in Conservation Sciences from Muskingum University in 2013. He relocated to the desert Southwest in 2015 where he began working with several private firms, environmental non-profits, the Nevada Department of Wildlife, and the U.S. Forest Service. Working alongside these entities and resources agencies, he has gained experience performing biological surveys including migratory and nesting birds; rare plants; Lahontan Cutthroat Trout population occupancy; and Mojave desert tortoise clearance, presence/absence, occupancy, and monitoring.

He has also gained experience in collecting data, writing technical reports, monitoring construction activities, and working with ArcGIS for environmental and biological projects. He has supported a variety of projects throughout his career including transmission lines and highway construction, natural gas pipeline maintenance, highway construction, population surveys, and environmental stewardship.

Tommy Heider

Desert Tortoise Biologist



Education and Training

Bachelor of Science, Conservation Science, Muskingum University, 2013

Introduction to Desert Tortoises & Field Techniques

OSHA-10 Hour Outreach Training Program

First Aid / CPR / AED

Areas of Expertise

- ❖ Biological surveys
- ❖ Desert Tortoise surveys
- ❖ ArcGIS
- ❖ Data collection
- ❖ Construction monitoring

Team Profile

Alana is an Environmental Technician at BEC. She received her Bachelor of Science in Biological Science from Southern University and A&M College. She has six years of combined laboratory research, sample preparation, and analytical testing experience with relevant coursework in botany and invasive species identification.

Alana provides project support for a wide variety of environmental projects, including brownfields redevelopment projects from eligibility determination and Phase I Environmental Site Assessments, to cleanup planning through the Analysis of Brownfields Clean-up Alternatives development. She also drafts U.S. Department of Housing and Urban Development compliant Environmental Assessments and Biological Evaluations. She has assisted with planning initiatives to promote economic development, conservation and preservation, and researched opportunities for local, state, and federal agencies as well as private clients throughout Nevada.

Alana has developed field experience in desert tortoise presence-absence surveys and site surveys to identify potential recognized environmental conditions for Phase I Environmental Site Assessments.

Alana Holt-Hall

*Environmental Scientist/
Health and Safety Officer*



Education and Training

Bachelor of Science, Biology, Southern University and A&M College

First-Aid / CPR / AED

Professional Certifications

40-Hour OSHA HAZWOPER

Death Investigator

EPA Lead Risk Assessor

Water Pollution Control Manager

Areas of Expertise

- ❖ Environmental site assessments
- ❖ Project research and records review
- ❖ Project support
- ❖ Document preparation
- ❖ Grant research
- ❖ GIS support
- ❖ Stormwater pollution

Team Profile

Vivian is an Environmental Scientist at BEC Environmental, Inc. She received her Master of Science in Biological Sciences with a concentration in Ecology and Evolutionary Biology from the University of Nevada, Las Vegas. Through her graduate education and professional experience, she has over six years of field and laboratory experience in conducting field surveys, managing and analyzing data, as well as developing and delivering technical reports and presentations. She is experienced in Mojave Desert plant and insect identification. She specializes in biology and desert ecology and her experience includes rare plant and rare plant habitat surveys, plant/pollinator interaction, effects of wildfire, and desert restoration.

Vivian has supported multiple projects important to the conservation of natural environments in southern Nevada. She has conducted protocol field surveys to locate populations of the rare Las Vegas bearpoppy and the Mojave poppy bee and evaluated this unique relationship. She has evaluated the impact and response of wildfire on plant/pollinator communities. She has supported habitat restoration through studies evaluating seedbanks, germination enhancement, and pollinator ecology.

Additionally, Vivian has experience in grant management and administration, as well as in grant applications. She has assisted communities in Southern Nevada to apply for and manage state and federal grant funding.

Vivian Sam

Environmental Scientist



Education and Training

Master of Science in Biological Sciences, with a concentration in Ecology and Evolution, University of Nevada, Las Vegas

Bachelor of Science in Biological Sciences, with a concentration in Ecology and Evolution, University of Nevada, Las Vegas

First-Aid / CPR / AED

Professional Certifications

40-Hour OSHA HAZWOPER

Stormwater Pollution Prevention Planning (SWPPP)

Areas of Expertise

- ❖ Biological surveys/studies
- ❖ Data management
- ❖ Technical writing
- ❖ Presentation
- ❖ Grants management/research
- ❖ Stormwater Pollution Prevention Planning (SWPPP)

Team Profile

Evandy is an Environmental Technician at BEC. She received her Bachelor of Science in Biological Science from Great Basin College. She has four years of lab experience including biological surveys, freshwater sampling, as well as developing and delivering technical reports and presentations. In her undergraduate experience, Evandy has worked alongside the BLM to conduct biological surveys and water sampling.

Evandy has experience conducting research, data collection and reporting. She has knowledge in ecology, toxicology, microbiology, animal and plant physiology, plant taxonomy and biochemistry.

Additionally, Evandy has experience with Geographic Information Systems, working with ESRI ArcGIS.

Evandy Severt
Environmental Scientist



Education and Training

Bachelor of Science, Biological Sciences,
Great Basin College, 2023

Associate of Science, Great Basin
College, 2020

First-Aid / CPR / AED

Areas of Expertise

- ❖ Environmental impact assessment & documentation
- ❖ Botanical resource surveys & reporting
- ❖ Wildlife resource surveys & mitigation
- ❖ Environmental site characterization

Team Profile

Autumn is an Environmental Technician at BEC Environmental, Inc. (BEC). She received her Bachelor of Applied Science in Environmental Management and two associate degrees from the College of Southern Nevada in Las Vegas in 2023. She has experience conducting field surveys, small mammal morphology, data collection and geologic mapping. She collected/processed environmental samples with various scientific instrumentation including an Ion Chromatography (IC), UV/Vis, and Inductively Coupled Plasma Mass Spectroscopy (ICP-OS).

Autumn's experience also includes experimental design development, data analysis, geographic information system software (GIS), Phase I ESA preparation, HUD Environmental Reviews, and laboratory techniques for soil analyses.

Autumn Smith *Environmental Technician*



Education and Training

Bachelor of Applied Science in
Environmental Management,
College of Southern Nevada, Las
Vegas, 2023

Associate of Applied Science in
Environmental Management,
College of Southern Nevada, 2021

Associate of Science, College of
Southern Nevada, Las Vegas, 2021

First-Aid / CPR / AED

Undergraduate Research in Biology –
College of Southern Nevada

Scientific Field Research in Costa Rica –
College of Southern Nevada

STEM Institute of Student Engagement
Through Research (Grant) – College
of Southern Nevada

Professional Certifications

Microsoft Office Specialist Associates

Areas of Expertise

- ❖ Phase I environmental site assessment
- ❖ SHPO Section 106 environmental review
- ❖ GIS
- ❖ ArcGIS
- ❖ Grant research

Team Profile

Anthony Acosta works as project, safety, marketing, and administrative support for BEC Environmental, Inc (BEC). His experience includes daily office duties such as data entry, document sorting and filing, office sanitization and organization, and health and safety regulation maintenance. Anthony greets and directs clients over the phone or at the front desk. He is responsible for maintaining the company contacts, schedule updates, and office inventory. He has also done research on the stages of grant writing.

In the field, Anthony has obtained experience in tortoise monitoring and stormwater pollution prevention inspections alongside the BEC Team.

Anthony Acosta

Project Support



Education and Training

Associate of Arts, College of Southern Nevada

First-Aid / CPR / AED

Areas of Expertise

- ❖ Administrative support
- ❖ Clerical work
- ❖ Client data entry
- ❖ Client communication
- ❖ Health and safety support
- ❖ Marketing support

Team Profile

Becky is the accounting manager at BEC. She graduated with a Bachelor of Science in Accounting from the University of Nevada Las Vegas, and brings over twenty years of banking, accounting, and managerial experience from retail sales, public accounting, manufacturing, and non-profit organizations to the Team.

Becky is responsible for several key areas of business at BEC. She oversees all areas of finance and administration including payroll, accounts payable and receivables, job costing, cash management, general ledger, banking, and reconciliations. She also provides strategic analyses for senior management to determine project and company profitability, prepares quarterly financial statements, and develops special reports required by clients. She ensures compliance with small business regulations, tax laws, insurance requirements, industry standards, etc.

Becky Putman

Accounting Manager



Education and Training

Bachelors of Science, Accounting,
University of Nevada, 2004

Bachelors of Science, Marketing,
University of Nevada, 2003

Associates of Business, Community
College of Southern Nevada, 1999

Areas of Expertise

- ❖ Accounts payable/receivable
- ❖ Payroll
- ❖ Project accounting
- ❖ System management



Services

Natural Resources



Brownfields Program Management & Implementation

BEFORE



AFTER



Environmental Site Characterization



NEPA Analysis, Document Development, & Support



Planning & Community Support



Permitting, Compliance Monitoring, & Environmental Oversight



- 43 Nye County Brownfields Program Implementation**
001.NyeBF (BEC)
- 44 FEMA Hazard Mitigation Plan**
005.05.001 (BEC)
- 45 North Las Vegas Boulevard Phase I Environmental Site Assessment**
003.07.903 (BEC)
- 46 Amargosa Valley Wellhead Protection Program**
002.04.001 (BEC)
- 47 McGill-Ruth Wellhead Protection Plan**
002.04.005 (BEC)
- 48 300-Acre Vacant Property Phase I Environmental Site Assessment**
013.08.001 (BEC)
- 49 Sandy Valley Wellhead Protection Plan Implementation Program**
002.05.001 (BEC)
- 50 1,000-Bed Federal Detention Facility Descriptive Economic Impact Analysis**
001.07.001(BEC)
- 51 Amargosa Valley Swimming Pool Feasibility Study**
804.07.001 (BEC)
- 52 1,000-Bed Federal Detention Facility Descriptive Economic Impact Analysis**
001.07.001 (BEC)
- 53 Nye County Public Safety Project Report and Coordination**
801.06.001 (RHN)
- 54 Nye County Wellhead Protection Plan Implementation Activities**
802.06.002 (BEC)
- 55 Colton Avenue Phase I Environmental Site Assessment**
003.07.902 (BEC)
- 56 Pahrump Valley Disposal Permitting Assistance**
007.06.001 (BEC)
- 57 City of North Las Vegas Brownfield Support Services**
003.07.901 (BEC)
- 58 City of Ely Wellhead Protection Plan Implementation Activities**
002.04.006 (BEC)
- 59 Transmission Development Desert Tortoise Surveys**
016.08.001 (EKB)

- 60 Tonopah Airport Reuse Plan**
802.07.002.6 (BEC)
- 61 Flood Control Facility Environmental Screening**
021.09.001 (EKB)
- 62 Nye County NWRPO Laydown Yard Site Characterization and Remediation**
001.09.001 (BEC)
- 63 Nye County Early Warning Drilling Program Environmental Planning, Permitting, and Oversight**
001.NyeBF (BEC)
- 64 Access Road Environmental Assessment**
019.08.001 (EKB)
- 65 Nye County 2009 Solid Waste Management Plan Update**
001.08.001, 001.13.001 (JEH)
- 66 Goodsprings Trail Study**
020.08.001 (EKB)
- 67 Pahrump Landfill Compliance Assistance and Technical Support**
001.08.001 (BEC)
- 68 Abandoned Mine Closure Desert Tortoise and Sensitive Plant Surveys**
012.07.001 (EKB)
- 69 Lincoln and White County Abandoned Mine Sensitive Plant Surveys**
012.09.001 (EKB)
- 70 Nye County Environmental Liaison Services for Renewable Energy Development**
802.09.001 (RHN)
- 71 Bob Ruud Community Center Rehabilitation Cost Evaluation and Asbestos Survey**
031.11.001 (BEC)
- 72 KDWN AM Emergency Radio Tower Site Expansion Sensitive Species Surveys**
034.11.001 (EKB)
- 73 Bureau of Reclamation Date Street Complex Waste Characterization Services**
029.10.001 (BKL)

- 74 Nye County Solid Waste Management and Household Hazardous Waste Planning and Technical Assistance**
804.10.002 (BEN)
- 75 Nevada Abandoned Mine Botany Surveys**
012.07.001, 012.09.001, 012.10.001 (EKB)
- 76 Shivwits Reservation Wildlife Pipeline Habitat Characterization and Environmental Assersment Support**
038.11.001 (EKB)
- 77 Ely Vacant Property Phase I Environmental Site Assessment**
047.12.002, 047.12.003 (BKL)
- 78 Callville Bay Tortoise Monitoring**
040.12.002, 040.12.003 (EKB)
- 79 Nye County Energy Efficiency and Conservation Block Grant (EECBG) Implementation and Grant Administration**
804.09.001 (BEC)
- 80 Kellogg Park Development Environmental Permitting and Compliance Assistance**
041.12.001 (EKB)
- 81 Bureau of Reclamation Date Street Complex Soil Sampling and Analysis**
029.12.001 (BKL)
- 82 White Pine County Value Needs Assessment**
040.12.001 (BEC)
- 83 Nye County Renewable Energy and Sustainability Planning and Technical Assistance**
804.10.001 (BEC)
- 84 Auto Shop Phase I Environmental Site Assessment**
050.12.001 (BKL)
- 85 State of Nevada Integrated Source Water Protection Program Development and Implementation**
018.08.XXX (BEC)
- 86 Advanced Rail Energy Storage (ARES) Government Liaison and Planning Assistance**
045.12.002, 045.12.003, 045.13.001 (BSG)
- 87 Lyon County Brownfields Site Identification and Program Assistance**
022.11.001 (BEC)

- 88 Nye County Economic Development Support**
804.12.001 (RHN)
- 89 Moapa Flood Control Assessment**
048.12.001 (BKL)
- 90 Nevada Test and Training Range Seeps and Spring Inventory**
051.12.001 (EKB)
- 91 Bureau of Reclamation Date Street Complex Site
Characterization and Soil Sampling**
042.12.001.GSA (RHN)
- 92 2013 Nye County Regional Economic Development Authority
Technical Assistance and Grant Support**
052.13.001 (BEC)
- 93 Pahrump Economic Development Support**
041.12.003 (BEC)
- 94 Advanced Rail Energy Storage (ARES) Site Analysis and
Environmental Permitting**
045.13.002 (BSG)
- 95 Nye County Regional Economic Development Authority Job and
Business Fair Facilitation**
052.13.001 (BEC)
- 96 Bureau of Reclamation Date Street Complex Site
Characterization and Soil Sampling**
042.21.001.GSA (RHN)
- 97 Georgia Tailings Reclamation Biological Assessment and
Environmental Assessment**
044.12.001, 044.13.001 (EKB)
- 98 Nye County Water District Socioeconomic Analysis and
Hydrology Data Verification**
043.12.001 (RDK)
- 99 Spencer Abandoned Mine Environmental Assessment and Site
Characterization**
037.13.001.GSA (EKB)
- 100 First Solar Community Outreach**
057.13.002 (JEH)
- 101 Tonopah Airport Refinery Environmental Site Assessment**
001.12.001 (JEH)

- 102 Kaibab Paiute Reservation Biological Evaluation**
039.12.001, 039.12.002, 039.13.001 (EKB)
- 103 White Pine County Renewable Energy Feasibility Study**
047.13.001 (BSG)
- 104 Nye County Inter-Agency Support and Project Management**
801.07.001, 801.09.001, 801.10.001 (RHN)
- 105 Goodfellow Enterprises Site Characterization and Soil Sampling**
061.14.001 (BEC)
- 106 Contamination Cleanup Fact Sheet English to Spanish Translation Services**
062.14.002 (BEC)
- 107 City of Henderson Brownfields Grant Application Technical Support**
066.12.001 (BEC)
- 108 Te-Moak Tribe Solar Feasibility Study**
056.13.001 (BSG)
- 109 Esmeralda County Economic Development and Grant Writing Services**
053.13.001 (MLR)
- 110 Esmeralda County Greater Sage-Grouse NEPA Review**
053.13.002 (EKB)
- 111 2014 Nye County Regional Economic Development Authority Technical Assistance and Grant Support**
052.14.001, 052.14.002 (BEC)
- 112 First Solar Sunshine Valley Solar Project Community Outreach**
057.14.001 (JEH)
- 113 Jeanell Apartments Phase I Environmental Site Assessment**
068.14.002 (EKB)
- 114 2011 Brownfields Coalition Assessment Grant Management and Program Implementation**
804.11.001 (BEC)
- 115 Tonopah Economic Development Support**
049.12.001 (BEC)
- 116 Microdel Aquaculture Permitting and Agency Coordination Support**
063.14.001 (EKB)

Project List

- 117 Nye County School District Pahrump Facility Tortoise Survey and Consultation Support**
072.15.001 (EKB)
- 118 Kaibab Paiute BIA Route 50 (Six Mile Road) Biological Evaluation**
039.15.001 (EKB)
- 119 Tortoise Monitoring Training**
074.15.001 (EKB)
- 120 Esmeralda County Transportation Grant Management and Program Oversight**
053.14.001 (MLR)
- 121 Northern Nevada Veterans Home Environmental Assessment Support**
033.15.002 (EKB)
- 122 Jeanell Apartments Construction HUD Environmental Review**
068.15.001 (EKB)
- 123 Nye County Landfill Gas Monitoring**
001.15.002 (BEC)
- 124 Black Mountain Industrial Site Outreach Support and Technical Review**
062.14.001 (VTB)
- 125 Shivwits Paiute Reservation Trail Biological Evaluation**
039.15.002 (EKB)
- 126 Southwood Apartments Rehabilitation Environmental Review**
068.15.002 (EKB)
- 127 Three Properties in Lincoln County Environmental Review**
068.15.003 (EKB)
- 128 Mountains Edge Elementary School Desert Tortoise Clearance Survey**
033.15.001 (EKB)
- 129 Nye County Environmental Workforce Development and Job Training Grant Application**
804.15.002 (MLR)
- 130 Nye County Assistance to Firefighters Grant Applications**
804.15.003 (MLR)
- 131 White Pine County Department of Energy Grant Support**
047.12.001 (MLR)
- 132 Advanced Rail Energy Storage (ARES) Natural Resources Surveys**
045.13.002 (EKB)

Project List

- 133 Las Vegas Valley Water District Technical Assistance and Grant Writing Services**
065.14.001 (MLR)
- 134 Clark County School District Tortoise Survey**
033.16.001 (EKB)
- 135 Metro-Fresh Aquatic Farm Permitting and Stakeholder Coordination**
076.16.001 (EKB)
- 136 Clark County Regional Justice Center Air Emissions Test**
077.16.001 (EKB)
- 137 Project Neon Pre-Demolition Asbestos, Lead-Based Paint, and Hazardous Materials Survey**
080.16.001 (ROS)
- 138 Great Basin Regional Economic Development Authority Grant Services**
069.14.001 (MLR)
- 139 Hoover Dam Fiber Optic Trail Project Biological Assessment**
042.16.001 (EKB)
- 140 Nellis Air Force Base Fuel Line Installation**
083.16.001 (EKB)
- 141 Nye County Community Development Block Grant Preliminary Applications**
(MLR)
- 142 North Tenya Apartments HUD Environmental Review**
085.16.001 (EKB)
- 143 Tonopah Airport Leased Parcels Environmental Inventory and Cleanup Recommendations**
804.16.001 (EKB)
- 144 Pure Energy Minerals, Inc. Facilities Permitting and Technical Assistance**
067.14.001 (BSG)
- 145 City of North Las Vegas Choice Neighborhoods Initiative Planning Grant Management**
073.15.001 (MLR)
- 146 Alpine Haven Apartments HUD Environmental Review**
084.16.001 (EKB)

Project List

- 147 Moapa Mulching Operations Environmental Compliance Support**
086.17.001 (ROS)
- 148 I-11 Boulder City Bypass Phase 2 Desert Tortoise Monitoring**
070.15.001 (EKB)
- 149 Flyers Services Stations Phase I Environmental Site Assessment**
062.14.003 (ROS)
- 150 Tule Springs Environmental Assessment**
090.17.001 (EKB)
- 151 Nevada EPSCoR Project Nexus External Engagement Team**
064.14.001 (BSG)
- 152 Nevada Department of Transportation Noxious Weed Survey and Management Plan**
091.17.001 (EKB)
- 153 City Impact Center Senior Housing HUD Environmental Review**
085.16.002 (EKB)
- 154 Patriot's Plaza and the Sierra Pacific Building HUD Environmental Reviews, Phase I Environmental Site Assessments, and Asbestos Surveys**
087.17.001, 087.17.002 (ROS)
- 155 Boulder City Bypass Ambient Air Sampling for Asbestos**
095.17.001 (EKB)
- 156 City of Las Vegas Brent Lane Drainage System and Trail Project Biological and Paleontological Support**
093.17.001 (EKB)
- 157 Smith's Grocery Phase I Environmental Site Assessments**
031.17.001 (BEC)
- 158 State of Nevada Federal Grant Development and Administration**
060.13.001 (MLR)
- 159 Kellogg Park Nevada Land and Water Conservation Fund Grant Application and Environmental Assessment**
041.17.001 (EKB)
- 160 Steamboat at the Summit HUD Environmental Review**
084.17.001 (EKB)
- 161 Corridor of Hope HUD Environmental Review and Phase I Environmental Site Assessment**
085.16.003 (EKB)
- 162 Nye County Grants Support**
060.13.001.NYE (MLR)

- 163 3230 West Desert Inn Storage Yard Environmental Site Characterization**
029.17.001 (BEC)
- 164 Gravel Pit Operations Phase I Environmental Site Assessments**
097.17.001 (ROS)
- 165 Rural Nevada Development Corporation Program Environmental Review**
068.17.004 (EKB)
- 166 Regional Transportation Commission of Southern Nevada Environmental Oversight**
094.17.001 (BEC)
- 167 Woodlands Apartments Rehabilitation Environmental Review**
068.17.001 (EKB)
- 168 Plaza at 4th Street Rehabilitation Environmental Review**
098.17.006 (EKB)
- 169 Sky Mountain Apartments Environmental Assessment**
084.17.002 (EKB)
- 170 Nye County FY2017 Assistance to Firefighters Grant Application**
804.18.001 (FMH)
- 171 Lakeview Executive Golf Course Phase I Environmental Site Assessment**
018.17.001 (ROS)
- 172 Northern Nevada Development Authority Brownfields Coalition Grant Outreach and Technical Assistance**
022.15.001 (ROS)
- 173 2015 Rural Desert Southwest Brownfields Coalition Assessment Grant Program Management**
804.15.001 (ROS)
- 174 Battle Mountain Environmental Assessment**
078.16.001 (EKB)
- 175 Highland Manor Apartments Rehabilitation Environmental Review**
068.17.002 (EKB)
- 176 Desert Properties Rehabilitation Environmental Review**
068.17.005 (ROS)
- 177 Unregulated Firing Range Phase II Limited Site Investigation**
804.17.001 (ROS)

- 178 Advanced Rail Energy Storage (ARES) BLM Right-of-Way Notice to Proceed Coordination**
045.16.001 (EKB)
- 179 Belmont Apartments Rehabilitation Environmental Review**
068.17.003 (ROS)
- 180 Solid Waste and Biohazard Disposal Training**
092.17.001 (ROS)
- 181 Vegas Trade Village Biological Evaluation**
099.18.001 (EKB)
- 182 Advanced Rail Energy Storage (ARES) Site Analysis, Natural Resource Surveys, Environmental Assessment, and Permitting Assistance**
045.13.002. 045.16.001 (EKB)
- 183 2017 Nye County Community Development Block Grant Technical Support**
804.17.002 (BEC)
- 184 Mission Hills Detention Basin Desert Tortoise Clearance Surveys**
066.18.001 (DLR)
- 185 Clark County School District Facilities On-Call Biological**
088.17.001 (EKB)
- 186 Bristlecone Apartments Environmental Review**
068.18.001 (ROS)
- 187 Crystal Substation Phase I Environmental Site Assessment**
101.18.001 (DLR)
- 188 I-11 Boulder City Bypass Phase 2 Environmental Compliance**
071.15.001 (EKB)
- 189 Garnet Interchange Biological Support**
062.17.001 (DLR)
- 190 Walker River State Recreation Area Environmental Assessments**
090.17.002 (DLR)
- 191 Geofortis Pozzolan Mine Biological Survey**
062.18.001 (DLR)
- 192 Ice Age Fossils State Park Biological Assessment and Environmental Assessment**
090.17.001 (EKB)
- 193 Yellow Pine Solar Energy Baseline Desert Tortoise Surveys**
103.18.002 (RMS)

Project List

- 194 Oquendo Senior Apartments HUD Environmental Review**
104.18.001 (EKB)
- 195 Farm Road Phase I Environmental Site Assessment**
105.18.001 (ROS)
- 196 Nevada Housing Division Environmental Reviews (Master Services Agreement)**
068.14.001 (EKB)
- 197 I-11 Alternatives Evaluation and Statewide Transportation Plan**
079.16.001 (DLR)
- 198 Future Dennis Underwood Conservation Area Environmental Site Assessment**
042.19.002 (ROS)
- 199 Battle Mountain Band Environmental Services**
089.17.001 (EKB)
- 200 Interstate 80 Corridor Alternatives Analysis - Sparks to Tahoe Reno Industrial Center**
096.18.001 (DLR)
- 201 Nye County Economic Development Planning and Technical Assistance**
802.06.001 (BEC)
- 202 City of Fallon Food Hub HUD Environmental Review**
109.19.001 (EKB)
- 203 Nevada HAND North 5th Street Apartments HUD Environmental Review**
098.18.001 (BEC)
- 204 Blue Diamond Senior Apartments HUD Environmental Review**
104.19.001 (EKB)
- 206 Environmental Compliance for Solar Project Development**
111.19.001 (EKB)
- 207 Unicon - Weed Management Plan**
091.19.001 (EKB)
- 208 I-15 Expansion at Tropicana Avenue Geotechnical Investigation and Phase I Environmental Site Assessment**
096.17.001 (ROS)
- 209 Stormwater Pollution Prevention Plan Industrial Permit Support**
107.19.001 (EKB)

- 210 G2 Capital Devco Professional Services for a Phase II Environmental Site Assessment**
112.19.001 (BEC)
- 211 Spring Mountain Motor Resort Land Transfer Phase I Environmental Site Assessment and Site Conditions Survey**
001.18.001 (ROS)
- 212 Boulder City Conservation Easement Small Mammal Survey**
108.19.001 (DLR)
- 213 City of Las Vegas Historic West Side Phase I Environmental Site Assessments**
018.17.001 (ROS)
- 214 LifeStyle Homes Biological Survey**
062.18.002 (DLR)
- 215 On-Call Environmental Compliance Support**
110.19.001 (BEC)
- 216 Sloan BLM Right-of-Way Desert Tortoise Surveys**
117.19.001 (DLR/DNV)
- 217 Archie C. Grant Park Renovation**
068.19.002 (EKB)
- 218 Sloan Canyon Switch Station Construction and 230kv Transmission Line Upgrade Environmental Monitoring**
103.18.001 (DNV)
- 219 Symphony Park CEM Oversight**
031.19.001 (BEC)
- 220 Old Mill Village Apartment Rehabilitation**
113.19.001 (EKB)
- 221 Geofortis Pozzolan Mines Paleontological Resources Survey**
062.20.001 (MAS)
- 222 Decatur and Alta Apartments Construction Environmental Review**
068.19.003 (EKB)
- 223 Anaconda Mine Land Transfer Biological Review**
062.19.001 (DLR)
- 224 Riparian Small Mammal Surveys**
108.20.001 (DNV)
- 225 Parkway Plaza Apartments Environmental Review**
132.20.001 (EKB)

- 226 Harry Allen-Eldorado Transmission Line Owner's Environmental Representative**
101.18.000 (DNR)
- 227 Pahrump Fairgrounds Development Area**
041.19.001 (ROS)
- 228 Spring Mountain Youth Residential Center**
113.19.001 (EKB)
- 229 Nye County Public Works Support**
001.14.001 (BEC)
- 230 Lake Mead West Apartments Environmental Review**
138.20.001 (EKB)
- 231 Marvel Way Empowerment Center Environmental Review**
142.20.001 (EKB)
- 232 Vegas Valley Environmental Review**
150.20.001 (EKB)
- 233 Sloan to Mead Transmission Line Rebuild Environmental Monitoring**
103.20.001 (DNV)
- 234 Spring Mountain Raceway Northern Expansion Habitat Conservation Plan and Environmental Assessment**
114.19.001 (DNR)
- 235 Fort Apache Senior Apartments Environmental Review**
104.21.002 (EKB)
- 236 Ely Hotel Bar**
804.18.002 (ROS)
- 237 "Ovation" Senior Apartments Environmental Review**
104.21.002 (EKB)
- 238 Journey Senior Services Center Expansion**
113.21.PO (EKB)
- 239 Nevada Brownfields Program (NBP) Contract Support**
018.17.001 (ROS)
- 240 Plaza Hotel**
804.18.002 (ROS)
- 241 Nevada Brownfields Program Quarterly Reporting**
018.17.001 (ROS)
- 242 Spring Mountain Motor Raceway Phase II Environmental Site Assessment**
114.21.002 (SCR)

- 243 Pre-Construction Regulated Building Materials Surveys at Three NDOT Maintenance Stations in Clark County**
114.21.001 (EKB)
- 244 Centennial Fine Arts Center**
804.18.002 (ROS)
- 245 Orovado Senior Apartments Environmental Review**
164.21.001 (EKB)
- 246 Garnet Valley Water System Botanical Resource Surveys**
103.18.004 MSA (DLR)
- 247 Campus Village Environmental Site Assessment and Soil Sampling**
161.22.002 (SCR)
- 248 Dry Lake East Energy Center Phase I Environmental Site Assessment**
103.22.002 (SCR)
- 249 Silver State South Storage Phase I Environmental Site Assessment**
103.22.003 (SCR)
- 250 Desert Pines Golf Club Phase I Environmental Site Assessment**
187.22.001 (SCR)
- 251 East Dry Lake Vegetation Surveys**
103.22.004 MSA (DLR)
- 252 Cactus & Las Vegas Blvd WOUS Evaluation**
177.22.002 (DLR)
- 253 Telephone Road Environmental Review**
150.20.001 (EKB)
- 254 (BEC)knell - Threatened and Endangered Species Impact Review**
188.23.001 (DLR)
- 255 Longtail Desert Tortoise Survey**
186.22.001 MSA (DLR)
- 256 Dry Lake East Phase II Environmental Site Assessment**
162.22.001 (BEC)
- 257 Professional Services to Support *Perdita meconis* (Mojave Poppy Bee) Surveys**
175.22.001 (DLR/VTS)
- 258 The Rural Desert Southwest Brownfields Coalition**
804.11.001, 804.14.001, 804.15.001, 001.Nye BF (BEC)
- 259 BLM Land Disposal Sale Request**
106.19.001 (EKB)

Project List

- 260 Luning Solar Energy Project - Phase II Environmental Assessment**
118.20.003 (DLR)
- 261 Nye County's Nevada Rural Brownfields Partnership's Revolving Loan Fund Technical Assistance and Grant Support**
804.14.001 (ROS)
- 262 Soil Management Plan for Fiber Optic Cable Removal**
204.23.001 (SCR)

Project List

Client

MaryEllen C. Giampaoli,
Environmental Compliance Specialist

Services

- ❖ Brownfields

Project Highlights

- ❖ Successful grant application
- ❖ Site identification
- ❖ Reuse planning
- ❖ Technical review of environmental documents
- ❖ Local, state, and federal agency interactions

Deliverables

- ❖ Property profile forms
- ❖ Quarterly reports
- ❖ Presentations, public announcements, and press releases for county commissioner boards, town boards, and community workshops
- ❖ Earth Day presentations
- ❖ Comprehensive inventory of identified and potential Brownfields sites
- ❖ Reuse plans
- ❖ Nevada Legislative Bill Draft Request

Project Dates

- ❖ Pilot Project - December 2004
- ❖ Assessment Grant - December 2009



Statue on redeveloped former Pink Motel site.
Source: BEC files.

Nye County Brownfields Program Implementation

Nye County, Nevada



Former Pink Motel in Tonopah.
Source: BEC files.

BEC Environmental, Inc. (BEC) was subcontracted by MaryEllen C. Giampaoli, Environmental Compliance Specialist, to assist in the implementation and maintenance of the Nye County Brownfields Program. BEC developed four successful grant applications to the U.S. Environmental Protection Agency for a total of \$850,000 (under a separate contract, using County general funds).

BEC was tasked with drafting the property profile forms and quarterly reports necessary to meet EPA reporting requirements, as well as a comprehensive inventory of identified and potential Brownfields sites throughout the county.

Additionally, BEC has performed community outreach activities to assist in the identification of potential Brownfields sites, developing presentation materials for each community as part of its efforts. Identified sites included the first methamphetamine laboratory assessed under a Brownfields program in the State of Nevada. BEC negotiated with EPA to allow Nye County to use a portion of its institutional control funding to develop state-wide legislation, with the cooperation of health district and law enforcement representatives throughout the State of Nevada, that identified NDEP as the regulatory authority responsible for overseeing and developing guidance for cleanup of former methamphetamine laboratories.

BEC worked with NDEP, the State Office of Energy, U.S. Department of Energy, and Nevada Business and Industry to promote reuse of the Beatty Bullfrog Mine and the Tonopah Airport as sites for the development of renewable energy projects. The interest in renewable energy development in Nye County that was initiated by the County's participation in the Brownfields resulted in more than 30 renewable energy projects proposed for construction in the County.

Project List

Client

URS Corporation

Services

- ❖ Environmental Characterization

Project Highlights

- ❖ Review of environmental and historical records
- ❖ Identification of hazards unique to each community
- ❖ Risk assessment

Deliverables

- ❖ Clark County Risk Assessment

Project Dates

- ❖ August 2005

FEMA Hazard Mitigation Plan

Clark County, Nevada

BEC Environmental, Inc. (BEC) was subcontracted by URS Corporation, to assist in the preparation of Clark County's Hazard Mitigation Plan. BEC developed community profiles, including identification of potential hazards, probability of future occurrences for identified hazards, and a risk assessment for various communities within Clark County based on the information obtained.

Hazards evaluated in the risk assessment included flash flooding, extreme heat, drought, subsidence, wildfires, avalanche, and severe winter storms. The information prepared by BEC was incorporated in Clark County's overall Hazard Mitigation Plan, which was prepared under a grant from and subsequently submitted to the Federal Emergency Management Agency (FEMA).

Project List

Client

Ninyo & Moore

Services

- ❖ Brownfields
- ❖ Environmental Characterization

Project Highlights

- ❖ Phase I completed to ASTM E-1527 Standard

Deliverables

- ❖ Phase I Environmental Site Assessment

Project Dates

- ❖ May 2006

North Las Vegas Boulevard Phase I Environmental Site Assessment

North Las Vegas, Nevada



North Las Vegas Boulevard site.
Source: BEC files.

BEC Environmental, Inc. (BEC) was subcontracted to perform a Phase I Environmental Site Assessment in support of the City of North Las Vegas Brownfields Program. BEC conducted Brownfields site visits, regulatory and historical records review, including the Nevada Division of Environmental Protection, Southern Nevada Health District, historical aerial photos, historical topographic maps, and historical city directories, in support of the City of North Las Vegas, Nevada, Brownfields program.

BEC performed all work in accordance with current ASTM standard E-1527 for Phase I Environmental Site Assessments.

Client

Thomas S. Buqo,
Consulting Hydrogeologist

Services

- ❖ Water Resource Planning and Compliance

Project Highlights

- ❖ Community Outreach
- ❖ Technical Research

Deliverables

- ❖ Wellhead Protection Plan
- ❖ Outreach materials

Project Dates

- ❖ June 2006

Amargosa Valley Wellhead Protection Program

Amargosa Valley, Nevada

BEC Environmental, Inc. (BEC) was hired by Thomas S. Buqo, Consulting Hydrogeologist to facilitate wellhead protection planning for the town of Amargosa Valley, Nevada. Planning activities focused primarily on stakeholder coordination, contaminant source identification, and report writing.

Water resource issues and constraints in the Amargosa Desert included a number of factors related to water quantity and use, the protection of environmentally sensitive areas, and existing and potential sources of groundwater contamination.

Client

Thomas S. Buqo,
Consulting Hydrogeologist

Services

- ❖ Water Resource Planning and Compliance

Project Highlights

- ❖ Coordination with stakeholders
- ❖ Contaminant source survey

Deliverables

- ❖ Wellhead Protection Plan

Project Dates

- ❖ November 2006

McGill-Ruth Wellhead Protection Plan

McGill and Ruth, Nevada



Wellhead in Mc-Gill-Ruth.

Source: BEC files.

BEC Environmental, Inc (BEC) was hired by Thomas S. Buqo, Consulting Hydrogeologist to facilitate wellhead protection planning for the towns of McGill and Ruth, Nevada. Planning activities focused primarily on stakeholder coordination, contaminant source identification, and report writing.



Wellhead in McGill-Ruth.

Source: BEC files.

Project List

Client

Private Development Company

Services

- ❖ Environmental Characterization

Project Highlights

- ❖ Phase I completed to ASTM E-1527 Standard

Deliverables

- ❖ Phase I Environmental Site Assessment

Project Dates

- ❖ November 2006

300-Acre Vacant Property Phase I Environmental Site Assessment

Pahrump, Nevada



Site conditions at subject site.
Source: BEC files.

BEC Environmental, Inc. (BEC) was contracted by a private development company to perform a Phase I Environmental Site Assessment (ESA), consisting of approximately 300 acres of vacant property in the Town of Pahrump, Nevada. The property was proposed for future development as a residential subdivision.

BEC conducted the site visit, regulatory records review, environmental database review, and historical sources review.

BEC performed all work in accordance with current ASTM standard E-1527 for Phase I ESAs.



Old vehicle on subject site.
Source: BEC files.

Client

Thomas S. Buqo,
Consulting Hydrogeologist

Services

- ❖ Water Resource Planning and Compliance

Project Highlights

- ❖ Community Outreach
- ❖ Technical Research

Deliverables

- ❖ Wellhead Protection Plan
- ❖ Wellhead Protection Comprehensive Planning Element

Project Dates

- ❖ December 2006

Sandy Valley Wellhead Protection Plan Implementation Program

Sandy Valley, Nevada

BEC Environmental, Inc. (BEC) was subcontracted to facilitate wellhead protection planning for the town of Sandy Valley in Clark County, Nevada. Planning activities focused on contaminant source identification, stakeholder coordination, regulatory records review, and report writing.

BEC assisted in preparation of the final Wellhead Protection Plan report for NDEP. This led to BEC assisting Clark County with the development of their Comprehensive Planning Element dedicated to Wellhead Protection.

Client

MaryEllen C. Giampaoli,
Environmental Compliance Specialist

Services

- ❖ Economic Development Support

Project Highlights

- ❖ Interviewed community representatives with similar facilities
- ❖ Coordination with DOJ representatives
- ❖ Records reviews

Deliverables

- ❖ Descriptive Economic Impact Analysis Report

Project Dates

- ❖ March 2007

1,000-Bed Federal Detention Facility Descriptive Economic Impact Analysis

Pahrump, Nevada

BEC Environmental, Inc. (BEC) was contracted by MaryEllen C. Giampaoli, Environmental Compliance Specialist, to provide a descriptive economic impact analysis (within a four-week timeframe) that both Nye County and the Town of Pahrump could use to help them make decisions relevant to hosting a 1,000-bed federal detention facility in the Town of Pahrump.

The scope of work culminating in the final report entailed contacting the Department of Justice (DOJ), commercial detention center companies, and representatives from host communities with similar facilities to obtain information relevant to the positive and negative aspects of developing and operating such a facility in communities with a population similar to that of Pahrump (approximate population 35,000).

This preliminary study addressed the direct and indirect effects, in general terms, of both the construction and operational phases of the detention center, and compared these results with information obtained by interviewing leaders from detention facility host communities. Issues addressed included, but were not limited to: employee training, use of local versus imported labor, ratio of employees to detainees, natural resource, average salary of employees, indirect economic impacts to local businesses, social impacts to the surrounding community, opportunity costs, and concessions/awards for development of facilities.

Project List

Client

Nye County, Nevada

Services

- ❖ Economic Development Support
- ❖ Outreach

Project Highlights

- ❖ Developed survey instrument and conducted telephone interviews
- ❖ Site identification
- ❖ Regulatory review
- ❖ State and federal records review
- ❖ Construction, operation and maintenance cost estimates

Deliverables

- ❖ Survey data
- ❖ NDWR research data
- ❖ Public presentations
- ❖ Draft and final reports

Project Dates

- ❖ June 2007

Amargosa Valley Swimming Pool Feasibility Study

Nye County, Nevada



Potential Amargosa Valley swimming pool location.

Source: BEC files.

BEC Environmental, Inc. (BEC) was contracted by Nye County, Nevada to prepare a feasibility study for a community swimming pool in the Town of Amargosa Valley, Nevada. BEC developed the study based on feedback obtained from survey data, input from local businesses, research data from the Bureau of Land Management and the Nevada Division of Water Resources, and interviews with representatives from other rural communities with facilities similar to that proposed for Amargosa Valley.

Three potential sites were identified by the Town and were evaluated by BEC to determine their suitability for the proposed project. Additionally, BEC performed community outreach activities to update the Town of Amargosa Valley on the progress and findings of the feasibility study.

BEC prepared and submitted the final report of their findings to Nye County, in accordance with the requirements of the County's Community Development Block Grant.

Client

Nye County Nuclear Waste
Repository Project Office

Services

- ❖ Government Liaison and Relations

Project Highlights

- ❖ Public safety and related services overview
- ❖ Systems management evaluation
- ❖ Regulatory compliance review
- ❖ Inter-organizational coordination
- ❖ Community outreach

Deliverables

- ❖ Draft Public Safety Plan Report, Phase I
- ❖ Nye County Public Safety Report
- ❖ Monthly newsletters
- ❖ Monthly progress reports

Project Dates

- ❖ July 2007

Nye County Public Safety Project Report and Coordination

Nye County, Nevada

BEC was contracted by the Nye County Nuclear Waste Repository Project Office to complete a public safety report. The report was to review the status of County public safety services and recommend whether the services could reasonably support U.S. Department of Energy (DOE) activities at the proposed Yucca Mountain Nuclear Waste Repository. The report included possible public safety impacts of the proposed repository on Nye County, potential benefits and liabilities of support, cooperation, and integration Nye County and DOE public safety activities.

BEC provided their findings to both Nye County and the DOE in a draft report. Following the receipt and incorporation of comments from Nye County and DOE, BEC conducted outreach meetings with the local communities and stakeholders. Comments and concerns from these meetings were also incorporated in the final report, which was submitted to and accepted by Nye County and the DOE.

Client

Nye County Natural Resources Office

Services

- ❖ Water Resource Planning and Compliance

Project Highlights

- ❖ Successful grant application preparation
- ❖ Community outreach
- ❖ Stakeholder coordination
- ❖ Draft ordinance preparation

Deliverables

- ❖ Grant application
- ❖ Public education materials
- ❖ Quarterly reports
- ❖ Presentations, public announcements, and press releases for county and town boards, and community workshops
- ❖ Earth Day presentations

Project Dates

- ❖ September 2007

Nye County Wellhead Protection Plan Implementation Activities

Nye County, Nevada

BEC Environmental, Inc. (BEC) developed a successful grant application to the Nevada Division of Environmental Protection for wellhead protection implementation activities based on the state-approved plans.

Subsequent to grant award, Nye County contracted BEC to carry out the grant activities. Implementation activities focused primarily on preparation and distribution of educational materials, coordination between stakeholders, community outreach, and draft ordinance preparation.

Project List

Client

Ninyo & Moore

Services

- ❖ Brownfields
- ❖ Environmental Characterization

Project Highlights

- ❖ Phase I completed to ASTM E-1527 Standard

Deliverables

- ❖ Phase I Environmental Site Assessment

Project Dates

- ❖ September 2007

Colton Avenue Phase I Environmental Site Assessment

North Las Vegas, Nevada



Colton Avenue site.
Source: BEC files.

BEC Environmental, Inc. (BEC) was subcontracted to perform a Phase I Environmental Site Assessment in support of the City of North Las Vegas Brownfields Program. BEC conducted Brownfields site visits, regulatory and historical records review, including the Nevada Division of Environmental Protection, Southern Nevada Health District, historical aerial photos, historical topographic maps, and historical city directories, in support of the City of North Las Vegas, Nevada, Brownfields program. BEC performed all work in accordance with the current ASTM standard E-1527 for Phase I Environmental Site Assessments.



Colton Avenue site.
Source: BEC files.

Client

Pahrump Valley Disposal

Services

- ❖ Recycling and Solid Waste Management Planning
- ❖ Permitting and Compliance

Project Highlights

- ❖ Inter-organizational coordination
- ❖ Successful zoning changes

Deliverables

- ❖ Completion of preliminary investigations
- ❖ Zoning changes
- ❖ Permitting applications

Project Dates

- ❖ December 2007

Pahrump Valley Disposal Permitting Assistance

Pahrump, Nevada

Pahrump Valley Disposal (PVD) contracted BEC Environmental, Inc. (BEC) to assist in obtaining appropriate changes to the Pahrump Regional Master Plan and zoning. PVD also requested BEC's assistance obtaining permits to further the company's desire and the community's need to relieve the stress on the Pahrump Valley Landfill. That landfill was in danger of being forced to close due to reaching maximum capacity. Estimates ranged from anywhere from two to ten years before closure would be required. PVD's efforts to maximize the use of the facility resulted in extending the projected life of the landfill.

PVD recognized that development of an aggressive recycling program would further extend the life of the landfill. PVD also recognized the potential need for a transfer station should the community be forced to use a landfill site more than ten miles beyond the city limits. PVD asked BEC to assist in getting the zoning changed from Mixed Use to Commercial Use for one property and to Heavy Industrial Use for several properties in order to facilitate the development of both projects. After the appropriate zoning was obtained, BEC assisted PVD in its efforts to obtain the required permitting for each of the properties.

Project List

Client

Ninyo & Moore

Services

- ❖ Brownfields
- ❖ Outreach

Project Highlights

- ❖ Technical assistance with Brownfields reporting requirements
- ❖ Facilitation of public outreach meetings

Deliverables

- ❖ Brownfields quarterly reports for the City of North Las Vegas, Nevada
- ❖ Public education and outreach materials

Project Dates

- ❖ July 2007 - February 2008

City of North Las Vegas Brownfield Support Services

North Las Vegas, Nevada

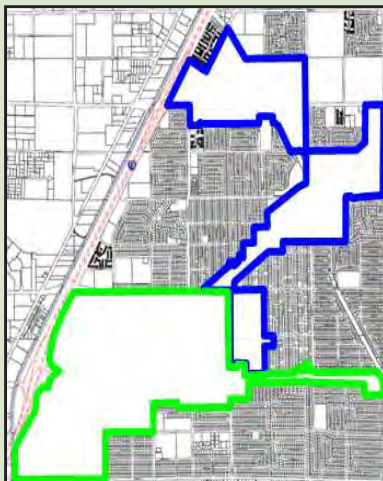


Brownfield site in North Las Vegas.
Source: BEC files.

Under subcontract to Ninyo & Moore, BEC Environmental, Inc. (BEC) prepared quarterly reports for the City of North Las Vegas, Nevada, Brownfields Program in accordance with U.S. Environmental Protection Agency reporting requirements.

Additionally, BEC prepared public education and outreach materials for distribution and presents information regarding the Brownfields program generally, and the program's activities in North Las Vegas during open public meetings.

The City of North Las Vegas used the bulk of its grant funding to evaluate and/or assess approximately 700 acres in redevelopment zones depicted in the map to the left. The City of North Las Vegas Redevelopment Agency was able to complete a total of 116 Phase I Environmental Site Assessments during the two year period of their Petroleum Assessment grant.



Rendition of project area.
Source: BEC files.

Client

Thomas S. Buqo,
Consulting Hydrogeologist

Services

- ❖ Water Resource Planning and Compliance

Project Highlights

- ❖ Community Outreach
- ❖ Wellhead Protection Ordinance

Deliverables

- ❖ Draft White Pine County Wellhead Protection Ordinance

Project Dates

- ❖ March 2008

City of Ely Wellhead Protection Plan Implementation Activities

Ely, Nevada

BEC was contracted to facilitate implementation activities for the City of Ely's state-approved Wellhead Protection Plan. Implementation activities focused primarily on ordinance development, including draft ordinance preparation, coordination between stakeholders, and community outreach..

Client

NewFields International, LLC

Services

- ❖ Biological

Project Highlights

- ❖ Field surveys for desert tortoises for transmission development

Deliverables

- ❖ Field notes

Project Dates

- ❖ April 2008

Transmission Development Desert Tortoise Surveys

Clark County, Nevada

BEC Environmental, Inc. (BEC) conducted extensive field surveys for the endangered Mojave desert tortoise (*Gopherus agassizii*) in Clark County, Nevada. These presence-absence surveys contributed to the impact evaluation of approximately 60 miles of proposed electric transmission lines from northeast Las Vegas to Mesquite, Nevada.



Juvenile desert tortoise.
Source: BEC files.

Project List

Client

Nye County Natural Resources Office and MaryEllen C. Giampaoli, Environmental Compliance Services

Services

- ❖ Economic Development Support
- ❖ Outreach

Project Highlights

- ❖ Technical review of environmental, master planning, and historical information
- ❖ Identification of potential markets for development

Deliverables

- ❖ Tonopah Airport Reuse Plan

Project Dates

- ❖ November 2008

Tonopah Airport Reuse Plan

Tonopah, Nevada

BEC Environmental, Inc. (BEC) was contracted through a joint effort by the Nye County Natural Resources Office (on behalf of the County's Economic Development Program) and MaryEllen C. Giampaoli, Environmental Compliance Specialist (on behalf of Nye County's Brownfields Program), to prepare a reuse plan for the Tonopah Airport, a US Army Corps of Engineers-classified "Formerly Utilized Defense Site."



Tonopah Airport hanger.

Source: BEC files.

BEC activities in support of the reuse plan included site visits, review of historical records, evaluation of environmental issues and community outreach activities to assist in the identification of potential redevelopment opportunities.

BEC was tasked with identifying development barriers and available resources, and making recommendations for a path forward in the redevelopment of this Brownfield site.

Client

G.C. Wallace, Inc.

Services

- ❖ Environmental Characterization

Project Highlights

- ❖ Desktop research and field survey to document existing environmental conditions
- ❖ Review of the eleven resource areas required by the current Clark County Regional Flood Control District Programmatic Environmental Impact Statement
- ❖ Identification of potential environmental constraints and associated mitigation measures

Deliverables

- ❖ Environmental Screening Evaluation

Project Dates

- ❖ April 2009



Clark County flood control facility.
Source: BEC files.

Flood Control Facility Environmental Screening

Clark County, Nevada



Clark County flood control facility.
Source: BEC files.

BEC Environmental, Inc. (BEC) conducted environmental screening for the proposed Clark County Regional Flood Control District facility, Flamingo-Boulder Highway, Sahara Avenue to Flamingo Wash. The project consisted of proposed drop inlets and storm drain facilities, including multiple box culverts, with the existing roadway alignments of Sahara Avenue and Boulder Highway in Clark County, Nevada.

A field survey was conducted to observe existing environmental conditions along the proposed storm drain alignment, Flamingo Wash, and the channel downstream of Boulder Highway. BEC also conducted a desktop review of existing reports and data on Geology and Soils; Paleontology; Surface Water; Groundwater; Biological Resources; Cultural Resources; Air Quality; Visual Resources; Recreation; Hazardous Materials; and Land Use. Information gathered from the site visit and desktop review was incorporated into a final Environmental Screening Evaluation report.

All work was conducted in accordance with the procedures described in Chapter 8 of the Final Supplemental Programmatic Environmental Impact Statement for the Clark County Regional Flood Control District 2002 Master Plan Update.

Project List

Client

MaryEllen C. Giampaoli,
Environmental Compliance Specialist

Services

- ❖ Environmental Characterization

Project Highlights

- ❖ Planned and coordinated site characterization activities
- ❖ Coordinated remediation activities with Nye County personnel and acceptance of waste materials with disposal facilities
- ❖ Negotiated acceptable closure criteria with State regulators and property owner

Deliverables

- ❖ Site Characterization Field Activities Report
- ❖ Spill Report Submitted to the Nevada Division of Environmental Protection
- ❖ Closure Report for Remediation Field Activities at Location of Former Above Ground Storage Tank (Approved by NDEP)
- ❖ Closure Report for Remediation Field Activities at Location of Trailer Burn Exercise

Project Dates

- ❖ July 2009



NWRPO Laydown Yard remediation activities.
Source: BEC files.

Nye County NWRPO Laydown Yard Site Characterization and Remediation

Amargosa Valley, Nevada



NWRPO Laydown Yard site conditions.
Source: BEC files.

BEC Environmental, Inc. (BEC) was subcontracted by MaryEllen Giampaoli, Environmental Compliance Specialist, on behalf of the Nye County Nuclear Waste Repository Project Office (NWRPO) to conduct site characterization and remediation activities at the former NWRPO Laydown Yard, located near Lathrop Wells. The property is privately owned and had been leased to NWRPO to support their investigations related to the proposed Yucca Mountain Repository Project, including conducting onsite fuel storage and refueling operations. The facility was also used by a Nye County Emergency Management Services team for a controlled burn training exercise that had the potential to generate debris containing hazardous materials.

BEC conducted soil screening activities, collected environmental samples for laboratory analysis, directed remediation activities and coordinated the disposal of ash and debris at the local municipal landfill as well as the disposal of the hydrocarbon-impacted soils at the US Ecology hazardous waste landfill located near Beatty, Nevada. Characterization and remediation activities were conducted in compliance with State and Federal regulations. BEC provided support in negotiations with the property owner and the Nevada Division of Environmental Protection (NDEP) to develop an appropriate closure strategy for the site. BEC also provided support to ensure NDEP's reporting requirements were satisfied.

Project List

Client

MaryEllen C. Giampaoli,
Environmental Compliance Services

Services

- ❖ Environmental Characterization
- ❖ NEPA

Project Highlights

- ❖ Health, safety, and environmental regulatory compliance
- ❖ Inter-organizational coordination
- ❖ Environmental oversight of cleanup activities

Deliverables

- ❖ General Health and Safety Plan
- ❖ Site Specific Health and Safety Plans
- ❖ Spill Reports
- ❖ BLM Right-of-Way application
- ❖ Environmental Assessment

Project Dates

- ❖ July 2009

Nye County Early Warning Drilling Program Environmental Planning, Permitting, and Oversight

Nye County, Nevada



Photo caption.
Source: BEC files.

BEC Environmental, Inc. (BEC) was subcontracted by MaryEllen C. Giampaoli to provide technical assistance for Nye County's Early Warning Drilling Program. BEC reviewed regulatory requirements and prepared general and site specific health and safety plans in support of the Nye County program.

BEC also assisted Nye County in fulfilling the Nevada Division of Environmental Protection's reporting and cleanup requirements. Following a petroleum spill at one of their sites, BEC provided Phase II Environmental Site Assessment activities and remediation oversight and reporting to Nevada Division of Environmental Protection (NDEP) for that spill response.

BEC prepared Environmental Assessments and coordinated with the Bureau of Land Management (BLM) to obtain Right-of-Way authorizations for construction of numerous monitoring wells, monitoring well pads and associated access roads. Coordination activities included participation in preliminary National Environmental Policy Act meetings with BLM resource specialists, integration of biological and cultural assessment reports in the appropriate Environmental Assessment documents, and incorporation of BLM comments in the final Environmental Assessment documents.

Client

Private Developer

Services

- ❖ NEPA
- ❖ Biological
- ❖ Grants

Project Highlights

- ❖ Desert Tortoise Survey
- ❖ Grant Application Support

Deliverables

- ❖ Environmental Assessment
- ❖ Rare Plant Survey Report
- ❖ Noxious Weed Plan
- ❖ Desert Tortoise Survey Summary Report
- ❖ Class 3 Cultural Report

Project Dates

- ❖ July 2008 - September 2009

Access Road Environmental Assessment

Amargosa Valley, Nevada

BEC Environmental, Inc. (BEC) was contracted by a private developer to provide environmental services in support of a right-of-way grant application for an access road within the Ash Meadows Area of Critical Environmental Concern in Amargosa Valley, Nevada.



Subject site.
Source: BEC files.

BEC performed plant surveys, desert tortoise surveys, a noxious weed assessment and identified potential impacts and alternatives for the access road improvement. BEC developed the Environmental Assessment based on these surveys and worked closely with Bureau of Land Management (BLM) staff to ensure the Assessment complied with National Environmental Policy Act (NEPA) regulations and addressed all concerns raised by BLM staff. BEC also assisted the BLM in the development of the Record of Decision and Finding of No Significant Impact reports.



Subject site.
Source: BEC files.

Project List

Client

MaryEllen C. Giampaoli,
Environmental Compliance Specialist

Services

- ❖ Recycling and Solid Waste Management Planning

Project Highlights

- ❖ Reviewed County's solid waste management system for compliance with local, State, and Federal regulations and other County planning documents
- ❖ Identified County, Federal, Tribal, and privately owned solid waste facilities within Nye County and reviewed their current operating status
- ❖ Identified future planning needs for the County's solid waste management system

Deliverables

- ❖ 2009 Solid Waste Management Plan Update

Project Dates

- ❖ September 2009



Recycling facility in Nye County.
Source: BEC files.

Nye County 2009 Solid Waste Management Plan Update

Nye County, Nevada

BEC Environmental, Inc. (BEC) was subcontracted by MaryEllen Giampaoli, Environmental Compliance Specialist, on behalf of the Nye County Department of Public Works to complete the five-year Update for the County's Solid Waste Management Plan (SWMP) as required by Nevada statutes. The SWMP provides a comprehensive overview of the solid waste management system for the County, including solid waste collection, landfill and storage bin facilities, recycling programs, and household hazardous waste programs. It serves to document the evolution of the County's solid waste management system and to plan for the County's future needs.

BEC was responsible for reviewing the County's solid waste management system for compliance with local, State and Federal regulations and other County planning documents; identifying County, Federal, Tribal, and privately owned facilities within Nye County and reviewing their current operating status; conducting interviews with facility owners, operators, and contractors; calculating the average solid waste generation rate for the County and applying the rate to project future solid waste quantities based on increase in population; documenting the current recycling and household hazardous waste programs within the County; and identifying future planning needs for the County's solid waste management system. Results were presented in the 2009 Solid Waste Management Plan Update which was approved by the Nevada Division of Environmental Protection and adopted by the Nye County Board of County Commissioners.

Project List

Client

Shapins Belt Collins

Services

- ❖ Biological

Project Highlights

- ❖ Trail Feasibility and Planning

Deliverables

- ❖ Environmental Issues and Constraints summary
- ❖ Cost estimate for future National Environmental Policy Act (NEPA) studies

Project Dates

- ❖ November 2009

Goodsprings Trail Study

Clark County, Nevada

BEC Environmental, Inc. (BEC) was subcontracted by Shapins Belt Collins (now Belt Collins) to provide environmental services in support of a trail feasibility study for Clark County, Nevada, which included identifying preferred trail corridors, obtaining input from potential trail users, and projecting costs for a trail system located between Jean and Goodsprings.

BEC activities for the project included conducting a review of environmental constraints, natural resources information, and historical and cultural information for the proposed trail, as well as assisting in the review of ownership and Right-of-Way information for the area. Environmental considerations evaluated in the study included threatened and endangered species, cacti and yucca, drainage areas, and sensitive plant and animal species. BEC also conducted site visits to assess potential biological resources within the area. Results were documented in a technical memorandum summarizing the project's environmental issues and constraints.

BEC also estimated the costs to complete the National Environmental Policy Act (NEPA) study that will be required prior to developing the trail project. BEC's findings were incorporated into the Goodsprings Trail Feasibility Study prepared by Shapins Belt Collins.



Vegetation on site.

Source: BEC files.

Client

MaryEllen C. Giampaoli,
Environmental Compliance Specialist

Services

- ❖ Recycling and Solid Waste Management Planning

Project Highlights

- ❖ Review of applicable NRS and Nye County Codes and current operating permit
- ❖ Coordination with Nye County Public Works and the Landfill Operator

Deliverables

- ❖ Oversight procedure, guidance documents, inspection checklists, and schedules
- ❖ Training for County Staff to conduct inspections

Project Dates

- ❖ 2008 - 2010

Pahrump Landfill Compliance Assistance and Technical Support

Pahrump, Nevada

BEC Environmental, Inc. (BEC) was subcontracted by MaryEllen C. Giampaoli, Environmental Compliance Specialist, to provide technical assistance in support of developing Nye County's landfill oversight and compliance program. Activities included reviewing pertinent Nevada Revised Statutes (NRS), County regulations, and current operating permit, to develop the inspection guidance document, inspection checklists and templates for a Notice of Inspection and Transmittal and Summary of Findings Report. BEC facilitated coordination between Nye County Public Works and the contracted Landfill Operator to develop the Program.

Additionally, BEC provided training and support to Nye County's Certified Environmental Manager (CEM) in conducting oversight inspections and technical review of inspection reports prepared by Nye County's CEM.

Project List

Client

U.S. Army Corps of Engineers,
Omaha District

Services

- ❖ Biological

Project Highlights

- ❖ Field surveys for desert tortoise and sensitive plant species
- ❖ Coordination with state and federal agencies

Deliverables

- ❖ Desert Tortoise and Sensitive Plant Survey Mine Closure Reports

Project Dates

- ❖ February 2010



Desert tortoise.
Source: BEC files.

Abandoned Mine Closure Desert Tortoise and Sensitive Plant Surveys

Clark County, Nevada

Under contract with the U.S. Army Corps of Engineers (USACE) Omaha District, BEC Environmental, Inc. performed field surveys for desert tortoise (*Gopherus agassizii*) and sensitive plant species in preparation for and during the closure of mines in Clark County. Field work included closure surveys, presence-absence surveys, and quality assurance surveys on Bureau of Land Management (BLM), US Forest Service (USFS), and National Park Service (NPS) managed lands.



Abandoned mine.
Source: BEC files.

BEC coordinated these activities with USACE, BLM, Bureau of Reclamation (BoR), Nevada Division of Minerals (NDOM), USFS, NPS, U.S. Fish and Wildlife Service (USFWS), and the Nevada Department of Wildlife (NDOW).

All work was performed under and funded by the Southern Nevada Public Lands Management Act (SNPLMA), as part of the Bat Gate and Cupola Project (Rounds Five and Seven).

Client

U.S. Army Corps of Engineers, Los Angeles District

Services

- ❖ Biological

Project Highlights

- ❖ Field surveys for sensitive plant species

Deliverables

- ❖ Sensitive Plant Survey Reports
- ❖ Abandoned mine closure recommendations

Project Dates

- ❖ July 2010

Lincoln and White Pine County Abandoned Mine Sensitive Plant Surveys

Lincoln and White Pine County, Nevada

Under contract with the U.S. Army Corps of Engineers (USACE), BEC Environmental, Inc. (BEC) conducted surveys of 325 abandoned mine sites for sensitive plants in White Pine and Lincoln County, Nevada. BEC was responsible for providing USACE with botany reports and closure recommendations based on survey results for each mine site.

BEC performed all necessary travel, surveys, evaluations, documentation, reporting, and coordination required to complete the surveys and reports.



Abandoned mine.
Source: BEC files.

Client

Nye County

Services

- ❖ Renewable Energy Support
- ❖ NEPA

Project Highlights

- ❖ Community outreach
- ❖ Funding opportunities identification
- ❖ Stakeholder communication and coordination
- ❖ Technical workshop facilitation

Deliverables

- ❖ Monthly summary reports
- ❖ Funding opportunity summaries
- ❖ GIS maps
- ❖ NEPA review

Project Dates

- ❖ September 2010



Public outreach meeting.

Source: BEC files.

Nye County Environmental Liaison Services for Renewable Energy Development

Nye County, Nevada

BEC was contracted by Nye County under their Congressionally Directed Project (CDP) for Renewable Energy Feasibility Studies to generate Environmental Constraint Analysis summaries, assist each local community in assessing environmental and other impacts, conduct public outreach meetings, and maintain an effort to research potential funding opportunities.

BEC acted as a liaison contact between renewable energy and transmission developers and County staff to provide project-specific regulatory guidance and to facilitate County interactions with congressional staff, federal, state, local, and regional agencies. As liaison contact, BEC coordinated and facilitated technical workshops for stakeholders, encouraging early inter-organizational communication and collaboration for development of renewable energy and transmission projects.

BEC also provided continual monitoring of Right-of-Way applications filed with the Bureau of Land Management (BLM) for public land in Nye County. Based on information obtained from this monitoring and dialogues with developers and stakeholders, BEC prepared GIS maps of proposed project locations relative to other projects and existing and proposed infrastructure to identify potential conflicts or land use issues.

Additionally, BEC reviewed Environmental Impact Statements and Environmental Assessments and other National Environmental Policy Act (NEPA) documents and prepared preliminary comments on behalf of Nye County in support of the NEPA review process for projects relevant to renewable energy development in Nye County.

BEC prepared a developers' resource packet for distribution to prospective developers in Nye County and the State of Nevada. Nye County subsequently determined a website dedicated to Energy in the County was necessary. BEC provided input on appropriate resources, contacts, and content for incorporation in the website, and assisted another private firm in the development of the website.

Client

Kleinfelder, Inc.

Services

- ❖ Economic Development Support
- ❖ Environmental Characterization

Project Highlights

- ❖ Prepared a detailed Cost/Benefit Analysis Report
- ❖ Asbestos Survey

Deliverables

- ❖ Cost/Benefit Analysis Report
- ❖ Asbestos Survey Report

Project Dates

- ❖ June 2011

Bob Ruud Community Center Rehabilitation Cost Evaluation and Asbestos Survey

Pahrump, Nevada

BEC Environmental, Inc. (BEC) prepared a detailed Cost/Benefit Analysis (CBA) Report for reopening the Bob Ruud Community Center located at 150 North Highway 160. Pahrump, Nevada 89048. The CBA report evaluated hazardous material assessment/abatement, energy efficiency retrofitting and other mechanical upgrades, and demolition of the existing structure and construction of a new, energy efficient facility. Additionally, BEC reviewed and evaluated environmental assessments, energy audits and health and safety documents previously prepared for the Bob Ruud Community Center.



Bob Ruud Community Center.
Source: BEC files.

BEC performed an interior and exterior limited asbestos survey in which 110 suspect asbestos-containing building material samples were collected and submitted for laboratory analysis. Subsequent to the asbestos survey, BEC prepared the asbestos survey report summarizing the results and conclusions of the assessment.

Client

Kleinfelder, Inc.

Services

- ❖ Environmental Characterization

Project Highlights

- ❖ Environmental Site Assessment
- ❖ Asbestos Survey

Deliverables

- ❖ Technical summary information for Phase I Environmental Site Assessment

Project Dates

- ❖ July 2011

Moapa Greenhouse Phase I Environmental Site Assessment

Moapa River Reservation, Moapa, Nevada

BEC Environmental, Inc. (BEC) assisted the Moapa Paiute Farm Board in completing their grant application for Brownfields Technical Assistance from the State of Nevada. BEC subsequently assisted Kleinfelder, Inc. in performing a Phase I Environmental Site Assessment (ESA) for the Moapa Farm Large Greenhouse, located on the Moapa Indian Reservation in Moapa, Nevada. BEC developed an historical profile of the subject property using information obtained during a review of available tribal documents, and coordinated meetings with the Moapa Paiutes Farm Nevada Division of Environmental Protection, and Nevada Small Business Development Center representatives to review site history, conditions, and proposed future redevelopment plans.

BEC also performed a limited exterior asbestos survey of two large greenhouse structures in which eight suspect asbestos containing building material samples were collected and submitted for laboratory analysis. BEC prepared an asbestos survey report summarizing the results and conclusions of the assessment and was included as part of the Phase I ESA and Limited Asbestos Survey Reports.



Moapa River Reservation Greenhouse.
Source: BEC files.

Project List

Client

Booz-Allen-Hamilton, Inc.

Services

- ❖ Biological

Project Highlights

- ❖ Desert Tortoise Presence/
Absence Survey
- ❖ Burrowing Owl Surveys

Deliverables

- ❖ Desert Tortoise Presence/
Absence Survey Summary Report
- ❖ Western Burrowing Owl Survey
Report

Project Dates

- ❖ August 2011

KDWN AM Emergency Radio Tower Site Expansion Sensitive Species Surveys

Henderson, Nevada



KDWN AM emergency radio tower expansion site.
Source: BEC files.

BEC Environmental, Inc. (BEC) was contracted by Booz-Allen-Hamilton, Inc. to conduct a Mojave Desert tortoise and western burrowing owl survey in preparation for the expansion of the existing emergency radio tower site.

The surveys were conducted in accordance with current U.S. Fish and Wildlife Service protocols, providing 100% coverage for the 0.4 acre potential impact area.



Desert Tortoise.
Source: BEC files.

Project List

Client

The Whiting-Turner Contracting Company

Services

- ❖ Environmental Characterization

Project Highlights

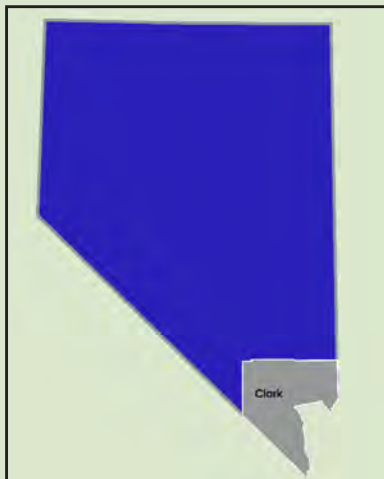
- ❖ Environmental Screening
- ❖ Waste Characterization
- ❖ Hazardous Waste Management

Deliverables

- ❖ Soil Characterization and Waste Disposal Report for the Lower Colorado Regional Office Green Building
- ❖ Soil Characterization and Waste Disposal Report for the Former WAPA Substation

Project Dates

- ❖ September 2010 - August 2011



Nevada state map with Clark County detail.
Source: BEC files.

Bureau of Reclamation Date Street Complex Waste Characterization Services

Boulder City, Nevada

BEC Environmental, Inc. (BEC) was subcontracted by The Whiting-Turner Contracting Company to conduct environmental screening and waste characterization services of excavated subsurface soils at the US Bureau of Reclamation (USBR), Date Street Complex located in Boulder City, Nevada.



Site characterization activities.
Source: BEC files.

BEC activities for the project included supporting Whiting-Turner in establishing temporary on-site storage areas for the excavated soils and conducting a review of the institutional controls, including the known locations of hazardous substances and materials management procedures outlined in the Corrective Action Plan (CAP) for the site.

BEC collected representative soil samples from stockpiles of the excavations, maintained a field log of activities conducted during the sampling and followed industry standard chain-of-custody protocol to ensure sample integrity during transmittal to the laboratory. For those soils that exceeded the established target limits, BEC recommended a disposal method for the excavated soils that was compliant with local, state, and federal regulations.

Client

Nye County

Services

- ❖ Recycling and Solid Waste Management Planning

Project Highlights

- ❖ Educational workshop facilitation
- ❖ Production and implementation of a County-wide Solid Waste Minimization and Household Hazardous Waste Management Plan

Deliverables

- ❖ Project summary reports
- ❖ Meeting agendas
- ❖ County approved Recycling and Household Hazardous Waste Management Plans

Project Dates

- ❖ September 2011

Nye County Solid Waste Management and Household Hazardous Waste Planning and Technical Assistance

Nye County, Nevada

BEC Environmental, Inc. (BEC) was contracted by Nye County to provide technical assistance, administrative support, and meeting facilitation for the development and implementation of a County-wide Solid Waste Minimization and Household Hazardous Waste Management Plan. The development of the Plan was funded through a United States Department of Agriculture Solid Waste Management Grant. The Program focused on the Nye County communities of Amargosa Valley, Beatty, Gabbs, Pahrump, Smoky Valley, and Tonopah.

BEC helped form, and provided technical assistance to, the Nye County Solid Waste Minimization and Household Hazardous Waste Management Advisory Team comprised of leaders from Nye County, each of the six targeted communities, and solid waste handlers/haulers. BEC helped tailor the Program to meet the County and communities' needs, prepared education materials, facilitated the Advisory Team meetings and the workshops developed a measures of success matrix to evaluate the Program's effectiveness, and assisted in the development and drafting of the Nye County Solid Waste Minimization and Household Hazardous Waste Management Plan.

Client

U.S. Army Corps of Engineers, Los Angeles District

Services

- ❖ Biological

Project Highlights

- ❖ Field surveys for sensitive plant species

Deliverables

- ❖ Sensitive Plant Survey Reports
- ❖ Abandoned mine closure recommendations

Project Dates

- ❖ October 2007 - October 2011

Nevada Abandoned Mine Botany Surveys

Various Locations Throughout Nevada

Between October 2007 and October 2011, under three separate contracts with the U.S. Army Corps of Engineers (USACE), BEC Environmental, Inc. (BEC) conducted rare plant surveys and provide closure recommendations for more than 800 abandoned mines throughout Nevada. Surveys were conducted by two field biologists to determine the presence or absence of rare, sensitive, or protected plant species as identified in the Nevada Rare Plants Atlas (2001).



Abandoned mining camp.
Source: BEC files.

The project consisted of conducting rare plant surveys for more than 800 abandoned mine features classified as public safety hazards throughout Nevada. BEC was able to complete these surveys ahead of the contracted schedules.

Desktop research was conducted to identify possible protected plant species and determine the appropriate time of year to conduct a survey for each feature, based on the location and habitat of the feature. Each group of surveys was conducted during three to five day periods, in spring and fall, between October 2007 and October 2011. Each mine feature survey was conducted using consecutive transects from the mine collar or opening to 45 feet from the mine, the potential area of disturbance for any closure activity. Each transect, at 15 foot intervals, was conducted by both biologists. A description of the habitat and a list of predominant species identified were detailed in a Nevada Plant Community Observation Report completed for each mine feature. Based on the survey results, summary of findings reports and closure recommendations were provided to the BLM and USACE.



Cholla Cactus (*Cylindropuntia fulgida*).
Source: BEC files.

Project List

Client

U.S. Army Corps of Engineers, Los Angeles District

Services

- ❖ Biological

Project Highlights

- ❖ Field surveys for sensitive plant species

Deliverables

- ❖ Sensitive Plant Survey Reports
- ❖ Abandoned mine closure recommendations

Project Dates

- ❖ October 2011

Northern Nevada Abandoned Mine Botany Surveys

Humboldt, Lander, and Pershing Counties, Nevada



Abandoned mining camp.
Source: BEC files.

Under contract with the U.S. Army Corps of Engineers (USACE), BEC Environmental, Inc. (BEC) conducted rare plant surveys for 350 abandoned mine sites on Bureau of Land Management (BLM) managed lands throughout Northern Nevada. Surveys of abandoned mine sites for protected plants were conducted in Humboldt, Lander, and Pershing Counties to ensure rare plant species would not be impacted during subsequent mine closure activities. BEC provided the USACE and the BLM with botany survey reports and mine closure method recommendations based on survey results for each site. BEC also participated in monthly planning level teleconferences with USACE, BLM, Bureau of Reclamation, Nevada Division of Minerals, and other project consultants.



Abandoned mine site.
Source: BEC files.

Client

Zeus Environmental, LLC

Services

- ❖ Biological
- ❖ NEPA

Project Highlights

- ❖ Site Survey

Deliverables

- ❖ Biological Site Characterization
- ❖ Technical Information for Environmental Assessment

Project Dates

- ❖ November 2011

Shivwits Reservation Wildlife Pipeline Habitat Characterization and Environmental Assessment Support

Shivwits Reservation, St. George, Utah



Shivwits Reservation.
Source: BEC files.

High Road Engineering, Inc. subcontracted BEC Environmental, Inc. (BEC) to conduct surveys and produce a Biological Evaluation for the development of the Shivwits Bicycle and Pedestrian Trail on the Shivwits Paiute Reservation, near Ivins, Utah.

The potential and actual occurrences of threatened, endangered, protected and sensitive flora and fauna along the proposed project alignment were compiled from existing records, then cataloged through pedestrian surveys. BEC compiled the information from the existing data and the field observations into a Biological Evaluation for the proposed project.

The information from the Biological Evaluation was incorporated into an Environmental Assessment, which was submitted to the Bureau of Indian Affairs to request approval of and guidance in construction of the trail.



Shivwits no trespassing sign.
Source: BEC files.

Client

White Pine County

Services

- ❖ Environmental Characterization

Project Highlights

- ❖ Completion of a Phase I Environmental Site Assessment

Deliverables

- ❖ Phase I Environmental Site Assessment

Project Dates

- ❖ 2012

Ely Vacant Property Phase I Environmental Site Assessment

Ely, Nevada

White Pine County, Nevada contracted with BEC Environmental, Inc. (BEC) to perform a Phase I Environmental Site Assessment (ESA), of White Pine County, Nevada, Assessor Parcel Numbers (APNs) 001-171-05, 001-171-06, and 001-171-07, consisting of 0.56 acres of vacant property. The purpose of the Phase I ESA was to identify, to the extent feasible, recognized environmental conditions (RECs) in connection with the property. The scope of work for the Phase I ESA consisted of a site reconnaissance, personnel interviews, regulatory records review, and report preparation.

BEC reviewed a list compiled by federal and state agencies that identified sites known or suspected to be contaminated, and facilities which handle hazardous substances or wastes. A computer database firm was used to provide listings of sites with the ASTM standard search radius which included information from, but was not limited to, U.S. Environmental Protection Agency-designated Superfund sites, CERCLIS sites, RCRA facilities, and Nevada Division of Environmental Protection lists of Corrective Actions cases, leaking underground storage tank cases, and registered UST owners. BEC reviewed geologic and hydrogeologic information to assess soil characteristics and ground water occurrence, relative depth, quality, and uses. BEC also reviewed historical aerial photography; U.S. Geological Survey maps; and building department, NDEP, ownership, zoning/land use, and/or any prior assessment usage records

BEC performed a field visit to the site paying particular attention to the possible presence of Underground Storage Tanks (USTs), 55-gallon drums, sumps and clarifiers, wells, septic systems, oil-water separators and leachfields, onsite waste disposal, and PCB-containing electrical transformers. Surrounding land use was evaluated for industrial and/or commercial activity and chemical usage, and for the presence of nearby facilities with readily identifiable USTs.

BEC conducted interviews with the current owner and local government officials to obtain information indicating recognized environmental conditions in connection with the property.

BEC completed the Phase I report and findings indicated a Phase II would be necessary. An estimate of the Phase II was also provided to the client.

Project List

Client

S & B Christ Consulting

Services

- ❖ Biological

Project Highlights

- ❖ Development of a Tortoise Monitoring Plan
- ❖ Environmental awareness training for on-site construction workers
- ❖ Active construction site monitoring
- ❖ Coordination with construction contractors, engineering contractors, National Park Service, and U.S. Fish and Wildlife Service

Deliverables

- ❖ Desert Tortoise Monitoring Plan
- ❖ Daily Biologist Log

Project Dates

- ❖ 2012

Callville Bay Tortoise Monitoring

Lake Mead National Recreation Area, Nevada

BEC Environmental, Inc. (BEC) developed a Tortoise Monitoring Plan for the Callville Bay Waste Water Treatment Facility Expansion located in the Lake Mead National Recreation Area on behalf of S&B Christ Consulting.

BEC developed the plan and conducted and supervised desert tortoise training for site construction workers. Desert tortoise monitoring was conducted daily during the eight month project.



Desert Tortoise.
Source: BEC files.

Client

Nye County

Services

- ❖ Renewable Energy Support
- ❖ Grants

Project Highlights

- ❖ Preparation and implementation of Energy Efficiency and Conservation Strategy
- ❖ Oversight and reporting of project accomplishments

Deliverables

- ❖ Energy Efficiency and Conservation Strategy
- ❖ Quarterly reports

Project Dates

- ❖ January 2012

Nye County Energy Efficiency and Conservation Block Grant (EECBG) Implementation and Grant Administration

Nye County, Nevada

BEC Environmental, Inc. (BEC) provided technical assistance on the Nye County Energy Efficiency and Conservation Block Grant (EECBG) Program. The Nye County EECBG Program included a public building retrofit and renewable energy installation component as well as energy efficiency and retrofit program for County residents.

BEC assisted Nye County with the preparation of its Energy Efficiency and Conservation Strategy, a requirement of the grant. The strategy called for energy audits and subsequent retrofits of two County facilities; up to 100 residential energy audits with up to 30 retrofits; and installation of renewable energy technology in at least one County facility. Nye County, in conjunction with the local utility, has exceeded its goals for residential audits, with over 400 completed and is in the process of retrofitting two County facilities and installing renewable energy technology at another public building.

BEC assisted Nye County in completing quarterly reporting requirements for the American Recovery and Reinvestment Act (ARRA) funded EECBG Program. BEC provided outreach services to promote the program throughout the community and garner support from local utilities. BEC was also responsible for overseeing the status of project activities to ensure the grant and program schedule is maintained.

Project List

Client

Town of Pahrump

Services

- ❖ Permitting and Compliance Support

Project Highlights

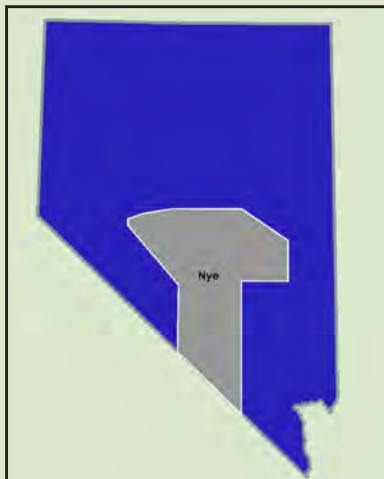
- ❖ Consulted with U.S. Fish and Wildlife and the Bureau of Land Management to determine the scope of developing Kellogg Park

Deliverables

- ❖ Summary Reports
- ❖ Environmental requirements letter to U.S. Fish and Wildlife Service

Project Dates

- ❖ January - March 2012



Nevada state map with Nye County detail.

Source: BEC files.

Kellogg Park Development Environmental Permitting and Compliance Assistance

Pahrump, Nevada

BEC Environmental, Inc. (BEC) was contracted by the Town of Pahrump to determine the extent of environmental investigation and reporting required for the development of the Kellogg Park property.



Kellogg Park under development.

Source: Selwyn Harris via Pahrump Valley Times.

BEC consulted U.S. Fish and Wildlife Service and the Bureau of Land Management representatives to determine the investigations and documentation needed to complete the development of Kellogg Park.

BEC provided the Town of Pahrump with summaries of all consultations, a development summary report, and an outline of the Town's environmental requirements for the park.

Client

The Whiting-Turner Contracting Company

Services

- ❖ Environmental Characterization

Project Highlights

- ❖ Onsite field observations and soil sampling activities
- ❖ Laboratory analysis and summary recommendations
- ❖ Reporting

Deliverables

- ❖ Chain of Custody
- ❖ Field Notes

Project Dates

- ❖ May 2012

Bureau of Reclamation Date Street Complex Soil Sampling and Analysis

Boulder City, Nevada

BEC Environmental, Inc (BEC) was contracted by The Whiting-Turner Contracting Company (Whiting-Turner) to conduct field observations and soil sampling in subsurface soils beneath Building 100 at the US Bureau of Reclamation (USBR), Date Street Complex, located in Boulder City, Nevada.



Building 100 soil sampling activities.

Source: BEC files.

According to previous environmental reports, the project site was used for storage of hazardous materials. Based on observed conditions, BEC collected and submitted soil samples for analysis in order to characterize the soil for organochlorine pesticides. Upon receipt of the laboratory analytical results, BEC contacted Whiting-Turner to recommend future actions.

Project List

Client

S&B Christ Consulting

Services

- ❖ Economic Development Support
- ❖ Grants

Project Highlights

- ❖ Analyzed demographic and housing data
- ❖ Grant Identification

Deliverables

- ❖ Value Needs Assessment Report

Project Dates

- ❖ February - May 2012

White Pine County Value Needs Assessment

Ely, Nevada

S&B Christ Consulting, LLC. (S&B Christ) subcontracted BEC Environmental, Inc. (BEC) on behalf of White Pine County, to identify current housing availability and projected housing needs. BEC also worked collaboratively with S&B Christ to prepare the White Pine County Value Needs Assessment and assisted with report preparation.

BEC collected and summarized demographic and housing data and analyzed future housing needs. BEC also reported available grant and loan resources supporting identified housing and infrastructure needs. BEC collected data from a variety of sources including the U.S. Census Bureau, Nevada Department of Employment, Training and Rehabilitation, Nevada Department of Taxation, the White Pine County Workforce Housing Assessment completed by the University of Nevada, Reno (UNR) Center for Economic Development (Tom Harris, 2008), and the annual County Housing Unit Reports prepared by the County Assessor's Office.



Nevada state map with White Pine County detail.
Source: BEC files.

Project List

Client

Nye County

Services

- ❖ Renewable Energy Support
- ❖ Grant Services

Project Highlights

- ❖ Coordination with local, state, regional and federal agencies
- ❖ Marketing support to renewable energy developers
- ❖ Facilitation of Environmental Protection Agency Technical Assistance Grant
- ❖ Facilitation of option to lease agreements

Deliverables

- ❖ Grant applications
- ❖ Funding opportunity summaries
- ❖ Updated Developers Information Packet
- ❖ Updated maps of renewable energy right of way applications
- ❖ Map of Nye County's solar suitability

Project Dates

- ❖ May 2010 - July 2012



Wind turbine.
Source: BEC files.

Nye County Renewable Energy and Sustainability Planning and Technical Assistance

Nye County, Nevada

BEC Environmental, Inc. (BEC) served as liaison with renewable energy developers (generation and transmission) to facilitate site selection, project development, developer agreements, and coordination with regulating and permitting agencies and other stakeholders to support Nye County, Nevada's economic development goals.

BEC supported Nye County staff by marketing renewable energy resources to a growing list of developers and utilities. Marketing support was provided through the development of and updates to the Renewable Developers Information Packet and the Nye County Renewable Energy website. BEC generated maps of renewable energy right-of-way applications. BEC also facilitated the development of a county-wide solar suitability map. BEC acted as a representative for Nye County on government task forces, regional transmission planning groups, and at local, regional and national conferences.

BEC has assisted four solar energy developers in obtaining Option to Lease agreements for Photovoltaic projects at the Airport, with two of these Options progressing to Lease negotiations. The proposed solar projects range in size from 17 to 40 Megawatts.

BEC was instrumental in obtaining an Environmental Protection Agency (EPA) Technical Assistance Grant for inventorying Nye County's Brownfields and their potential for net-metering solar generation. Through this grant, BEC suggested ten sites for evaluation and was working with the EPA contractor to develop and utilize a ranking tool and subsequent feasibility report.

At the County's direction and in concert with NV Energy's Solar Generations Program, BEC prepared a Request for Proposal (RFP) for Countywide Distributed Generation on Public Facilities.

A database of funding opportunities was maintained in order to facilitate the timely identification and monitoring and tracking of funding opportunities. BEC provided bi-weekly summaries of funding and technical assistance obtained through its research and the information was added to the database.

Project List

Client

Ventura Enterprises Investment & Development, Inc.

Services

- ❖ Environmental Characterization

Project Highlights

- ❖ Phase I completed to ASTM E-1527 Standard
- ❖ Site Visit
- ❖ Outreach

Deliverables

- ❖ Phase I ESA

Project Dates

- ❖ October - November 2012

Auto Shop Phase I Environmental Site Assessment

Las Vegas, Nevada

BEC Environmental, Inc. (BEC) was contracted by Ventura Enterprises Investment & Development, Inc. to prepare a Phase I Environmental Site Assessment (ESA) for 2575 East Sahara Avenue, Las Vegas, Nevada.



Nevada Auto Group sign.
Source: BEC files.

The purpose of the ESA was to evaluate existing site conditions and land use history in order to identify potential environmental liabilities and to assess the possibility of impairment due to the presence, handling, or disposal of hazardous substances.

During the ESA study BEC performed records reviews, site reconnaissance, interviews, evaluations, and the final report.



Interior view of the Nevada Auto Group showroom.
Source: BEC files.

Client

Nevada Division of Environmental Protection, Bureau of Water Pollution Control

Services

- ❖ Water Resource Planning and Compliance

Project Highlights

- ❖ Wellhead Protection Plan Development and Implementation
- ❖ Development of a State of Nevada Integrated Source Water Protection Program Guidance Document
- ❖ Development of Community Source Water Protection Plans

Deliverables

- ❖ McGill-Ruth Wellhead Protection Plan Update
- ❖ Integrated Source Water Protection Program Guidance Document
- ❖ Community Source Water Protection Plan for Public Water Systems in Douglas, Nye and White Pine County, Nevada
- ❖ Quarterly reports

Project Dates

- ❖ July 2008 - December 2012



Wellhead.

Source: BEC files.

State of Nevada Integrated Source Water Protection Program Development and Implementation

Nevada

Nevada Division of Environmental Protection (NDEP), Bureau of Water Pollution Control, contracted BEC Environmental, Inc. (BEC) from July 2008 through December 2012, to provide technical assistance to various communities throughout Nevada and establish procedures for the continued protection of drinking water for future generations.

BEC assisted NDEP with the revision and update of the Nevada Integrated Source Water Protection Program Guidance Document. BEC obtained community feedback on the program and guidance document and coordinated and assisted with the development and implementation of local ordinances.

BEC also worked with communities throughout Nevada to develop and update water resource management and provided technical assistance for plan development. BEC assisted the communities and public water systems in Douglas County, White Pine County, and Nye County in the development and implementation of a county-wide Community Wellhead Protection Plans.

In addition to these major initiatives, a number of short-duration initiatives were also completed: 1) providing assistance to the Beatty Water and Sanitation District in the abandonment of two wells; 2) reviewing, revising, and finalizing the 2006 draft Wellhead Protection Plan for McGill/Ruth; 3) providing assistance to the Lander County Sewer and Water General Improvement District #2 in the creation and promotion of a wellhead protection program for the Austin, Nevada, area; and 4) facilitating Groundwater Protection Task Force quarterly meetings.

Client

Advanced Rail Energy Storage, LLC

Services

- ❖ Government Liaison and Relations

Project Highlights

- ❖ Liaison services with local, state and federal government agencies, local utilities, Nevada State Higher Education, and other stakeholders
- ❖ Advisement on Nevada State policies and plans including State Energy and Economic Development Policy, Transmission Planning and Development and Workforce Development

Deliverables

- ❖ Bureau of Land Management Siting Memorandum

Project Dates

- ❖ 2012 - 2013

Advanced Rail Energy Storage (ARES) Government Liaison and Planning Assistance *Nevada*

BEC Environmental, Inc. (BEC) provided liaison services to coordinate and facilitate stakeholder involvement relevant to siting, interconnection and purchase offer opportunities, and public-private partnership opportunities in Nevada. BEC assisted ARES in interacting with Federal and State agencies, local utilities, the relevant regional transmission organization, local government officials, Nevada communities, special interest groups, and other stakeholders.

BEC advised ARES on Nevada State policies and plans in areas including but not limited to: State energy and economic development policy, land use policy, environmental policy, transmission planning and development, regional opportunities, and workforce development. BEC also informed ARES of significant planning issues, federal and state funding opportunities, and regulatory or policy changes.

BEC assisted ARES in the development of agendas, meeting notes, and other documents.

Client

Converse Consultants

Services

- ❖ Brownfields
- ❖ Outreach

Project Highlights

- ❖ Brownfields community meetings in Lyon County
- ❖ Coordination with key stakeholders to build program momentum
- ❖ Identified petroleum contaminated sites
- ❖ Leveraged USDA grant funding

Deliverables

- ❖ Brownfields identification of various sites in Lyon County
- ❖ Summary of possible brownfields and redevelopment funding opportunities

Project Dates

- ❖ September 2011 - January 2013



Photo caption.
Source: BEC files.

Lyon County Brownfields Site Identification and Program Assistance

Lyon County, Nevada

Converse Consultants contracted BEC Environmental, Inc. (BEC) to support Lyon County, the City of Yerington, and City of Fernley in the execution of their Environmental Protection Agency (EPA) Brownfields Coalition Assessment grant (CDFA # 66.818) for the identification, assessment, and reuse planning of potentially contaminated sites.

Representatives from each of the Coalition partners were interviewed and relevant databases and public records were used to identify sites known or suspected to be contaminated by petroleum products. BEC prepared a list of three sites likely to be eligible for participation in the EPA Brownfields Assessment grant. As a result of early successes in identifying and receiving EPA approval for assessment of the sites, BEC was able to provide additional technical assistance including supplementing reports required by the EPA, coordinating with property owners, and identifying additional brownfields sites in the Coalition area.

BEC participated in a Brownfields community meeting in Lyon County, which included representatives from each of the Coalition partners and property owners. Discussion at the meeting included the current status of the Lyon County Coalition Brownfields Program, next steps in the assessment and reuse planning process, and future possibilities for Lyon County associated with brownfields redevelopment.

BEC worked closely with Converse Consultants, Lyon County, Silver Springs Airport, and Northern Nevada Development Authority staff to advance the redevelopment process for the Brownfields Assessment program. To help support the reuse initiatives, BEC also provided a summary of possible funding opportunities for the various redevelopment phases.

Client

Nye County

Services

- ❖ Economic Development Support
- ❖ Grants

Project Highlights

- ❖ Support for economic development opportunities throughout the County

Deliverables

- ❖ Successful Brownfields Revolving Loan Fund Grant Application

Project Dates

- ❖ September 2012 - January 2013

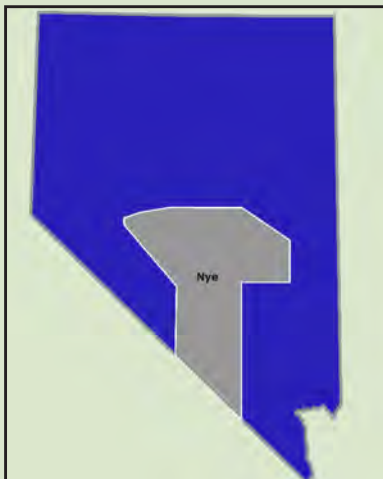
Nye County Economic Development Support

Nye County, Nevada

Nye County contracted BEC Environmental, Inc. (BEC) to prepare grant applications to support economic development and environmental-related initiatives identified by Nye County and to facilitate economic development opportunities throughout the county.

BEC coordinated with representatives and stakeholders from Nye County, the Nye County Regional Economic Development Authority (NCREDA), and local communities to facilitate economic development. BEC followed up on new business leads to provide relevant resource, infrastructure, and site stability information. BEC provided technical expertise on water resources, brownfields, site characterization, renewable energy, and permitting as needed.

BEC assisted Nye County Commissioners with preparation of a successful Brownfields Revolving Loan Fund (RLF) Grant application securing \$1,000,000 in funding to establish an RLF for Nye County and the Nevada Rural Brownfields Partnership.



Nevada state map with Nye County detail.

Source: BEC files.

Project List

Client

Moapa Paiute Farm Board

Services

- ❖ Water Resource Planning and Compliance

Project Highlights

- ❖ Research completed to aid in the development of potential flood control mitigation options

Deliverables

- ❖ Preliminary Flood Hazard Evaluation Report

Project Dates

- ❖ August 2012 - February 2013

Moapa Flood Control Assessment

Moapa River Reservation, Moapa, Nevada

Moapa Farm Board contracted BEC Environmental, Inc. (BEC) to identify existing relevant studies, reports, maps, and other references and to perform a thorough review with respect to the Moapa Paiute Farm greenhouse site.



Moapa greenhouse site.
Source: BEC files.

BEC researched relevant information from multiple sources including; Clark County Geographic Information System, Clark County Public Works Department, Clark County Regional Flood Control District, Federal Emergency Management Agency, U.S. Geological Survey (USGS), U.S. Army Corps of Engineers, and others.

Documents consisting of readily available current and historical aerial photographs, USGS topographic maps, and USGS GIS based Digital Elevation Model 7.5-minute Terrain data were reviewed by BEC and the Moapa Greenhouse Complex site was evaluated to identify elevation differences, existing drainage paths, and vegetation density.

This review was used in conjunction with the site reconnaissance to determine potential flood hazards. Potential flood control mitigation options were developed, including but not limited to: berms, levees, channelization, detention, and/or raising the site above the 100-year Base Flood Elevation.

BEC also reviewed NV Energy reports, design plans, and drainage studies pertaining to the Harry Reid Substation, located in the flood plain, to better develop flood control mitigation options.



Moapa greenhouse site.
Source: BEC files.

Client

Adams Ecology, Inc.

Services

- ❖ Water Resource Planning and Compliance
- ❖ Biological

Project Highlights

- ❖ Identification and mapping of most likely current and/or historical location for identified water resources

Deliverables

- ❖ Seeps and Springs list with descriptions for Northeast North, Northwest North, Southwest North, and South Ranges
- ❖ GIS shapefile of seep and spring locations

Project Dates

- ❖ November 2012 - March 2013

Nevada Test and Training Range Seeps and Spring Inventory

Nevada Test and Training Range, Nevada

Adams Ecology, Inc. subcontracted BEC Environmental, Inc. (BEC) to research the Nevada State Engineer's water rights database to support development of a Nevada Test and Training Range spring and seep catalog.

BEC developed a systematic process to review and compare current and historical water rights information. This required collection of seep and spring ownership summaries; Water Resource maps; copies of original surveyor maps and Certificates of Appropriation; determination of likely water source locations; and a summary of historic information for each seep or spring located within the current Range.

BEC also developed an ArcGIS shapefile that identified the most likely current and/or historical location for each of the identified water resources.



Seep observed on site.
Source: BEC files.

Client

Nye County Regional Economic Development Authority (NCREDA)

Services

- ❖ Economic Development Support
- ❖ Grants

Project Highlights

- ❖ Support for economic development opportunities throughout Nye County

Deliverables

- ❖ Successful Grant Application

Project Dates

- ❖ February - April 2013

2013 Nye County Regional Economic Development Authority Technical Assistance and Grant Support

Nye County, Nevada

BEC Environmental, Inc. (BEC) was contracted by Nye County Regional Economic Development Authority (NCREDA) to assist in the facilitation of the NCREDA's sustainable economic development and environmental-related projects, programs, and initiatives. BEC performed the following tasks:

- Provided development, coordination, and implementation of the Tonopah Food and Housing Needs meetings that resulted in two food service truck companies initiating operations in the Tonopah area.
- Provided technical support to numerous organizations to attract outside companies to Nye County, expand opportunities for existing Nye County firms, and assist start-up organizations throughout Nye County, consistent with NCREDA's mission objectives.
- Coordinated economic development leads and opportunities among NCREDA, Esmeralda County, Northern Nevada Development Authority, the City of Henderson, and the Las Vegas Global Economic Alliance in a manner consistent with NCREDA's Strategies.
- Prepared application for Smart Growth Implementation Assistance opportunity to address housing needs in the Tonopah area.
- Procured \$3,200 in committed funding in support of the NCREDA Job and Business Fair in Pahrump.
- Prepared draft agendas and backup materials for NCREDA meetings, and prepared for and participated in NCREDA meetings.
- Prepared NCREDA's successful application to the Nevada Governor's Office of Economic development for a \$180,000 grant to support NCREDA operations.

Project List

Client

Town of Pahrump

Services

- ❖ Economic Development Support

Project Highlights

- ❖ Jobs and Business Fair Facilitation

Deliverables

- ❖ Technical Support to Incoming Business
- ❖ Monthly Activity Summary Reports

Project Dates

- ❖ October 2012 - May 2013

Pahrump Economic Development Support

Pahrump, Nevada

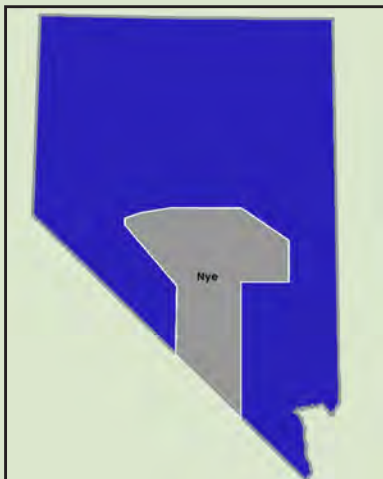
BEC Environmental, Inc. (BEC) was contracted by Town of Pahrump, Nevada (Town) to assist in the facilitation of the Town sustainable economic development and environmental related projects, programs, and initiatives.



View from the Town of Pahrump.
Source: pahrumpmv.com

BEC performed the following tasks:

- Facilitated economic development opportunities throughout the Town of Pahrump.
- Provided technical support to incoming business on demographics, infrastructure, and licensing procedure.
- Coordinated a job and business fair for the Town to match job seekers with potential employers, and business with business support services.



Nevada state map with Nye County detail.
Source: BEC files.

Client

Advanced Rail Energy Storage, LLC

Services

- ❖ Permitting and Compliance Support
- ❖ NEPA

Project Highlights

- ❖ Feasibility Study
- ❖ Environmental Assessment
- ❖ Project Permitting
- ❖ Coordinated with multiple federal, state and local agencies to assist in permitting the project

Deliverables

- ❖ Fatal Flaw Analysis
- ❖ Preliminary Plan of Development
- ❖ BLM Right-of-Way Application
- ❖ Preliminary and Draft Environmental Assessment
- ❖ Outreach materials
- ❖ Biological Assessment
- ❖ Biological Survey Report
- ❖ Cultural Survey Report
- ❖ Visual Resource Assessment

Project Dates

- ❖ January - June 2013



Vegetation on site.
Source: BEC files.

Advanced Rail Energy Storage (ARES) Site Analysis and Environmental Permitting

Nevada

ARES Nevada, LLC (ARES) contracted BEC Environmental, Inc. (BEC) to provide professional support for the permitting and development of a first-of-its-kind, \$55 Million grid-scale Regulation Energy Management facility to deliver ancillary services to the regional electrical grid.

To assist ARES in their site selection, BEC evaluated several potential project sites and conducted a fatal flaw analysis, which enabled ARES to identify preferred and alternative project sites on Federal land managed by the Bureau of Land Management (BLM). Since the sites extended into two Nevada counties, the environmental permitting of the project required coordination with multiple local jurisdictions, the local transmission service provider, Valley Electric Association (VEA), and state and federal regulatory agencies including BLM, the lead agency.

Working collaboratively with the Southern Nevada District and Pahrump Field Offices of the BLM, BEC prepared and submitted the Preliminary Plan of Development and the BLM Right of Way Application for the generation, operations and maintenance, and distribution and transmission project components. BEC tracks permitting tasks and subtasks using project management software to enable ARES and BEC to coordinate comprehensive project planning activities spanning a 24 month development horizon. BEC also created a National Environmental Protection Act (NEPA) permitting matrix for the project. BEC conducted cultural, rare plant and weed, and desert tortoise surveys, reported on potential impacts to birds and bats, evaluated visual impacts, and prepared the Environmental Assessment (EA).

Mitigation measures were developed for impacts to desert tortoise, horse and burro, and yucca habitat, requiring close coordination with the BLM, Nevada Department of Wildlife, and the U.S. Fish and Wildlife Service. BEC briefed local planning agencies on the status of the project conducted informal and formal outreach meetings to present the draft EA to affected communities.

Project List

Client

Nye County Regional Economic Development Authority (NCREDA)

Services

- ❖ Economic Development Support

Project Highlights

- ❖ Planning and Coordination
- ❖ Implementation and Facilitation

Deliverables

- ❖ Survey monthly results
- ❖ 2013 Business Resources Guide

Project Dates

- ❖ March - June 2013

Nye County Regional Economic Development Authority Job and Business Fair Facilitation

Nye County, Nevada



Nevada Jobs Connect table at NCREDA Job and Business Fair.
Source: BEC files.

BEC Environmental, Inc. (BEC) was contracted by Nye County Regional Economic Development Authority (NCREDA) to facilitate an NCREDA Job and Business Fair (Fair), held in April 12, 2013.

BEC's activities included:

- **Planning and Coordination:** designed and prepared the agendas, advertising for the event, business/organization directory, exhibit maps, and name tags; followed up with businesses and organizations to confirm their participation in the Fair and to address last minute changes; identified and coordinated sponsors in an effort to obtain funding or offset expenses for the event.
- **Implementation and Facilitation:** ensured the availability of audio and presentation equipment; provided coordinators to assist the business, organization and agency representatives and the job seekers during the event; prepared a business, organization, and job seeker database of contact information for distribution of follow-up information regarding the conference and future relevant opportunities.



Rural Nevada Development Corporation (RNDC) table.
Source: BEC files.

Client

U.S. Bureau of Reclamation

Services

- ❖ Environmental Characterization

Project Highlights

- ❖ Site Characterization
- ❖ Soil Sampling
- ❖ Coordination with state and federal agencies

Deliverables

- ❖ Report of Sampling Activities
- ❖ Corrective Action Plan

Project Dates

- ❖ February 2012 - July 2013

Bureau of Reclamation Date Street Complex Site Characterization and Soil Sampling

Boulder City, Nevada

U.S. Bureau of Reclamation (USBR) contracted BEC Environmental, Inc. (BEC) to conduct site characterization activities for a release of petroleum hydrocarbons and polychlorinated biphenyls adjacent to Building 200 at the Date Street Complex, located at 500 Date Street in Boulder City, Nevada.



Field work.
Source: BEC files.



Field work.
Source: BEC files.

The scope of work was completed in two phases. Phase I consisted of the initial assessment (four borings to 20-feet below ground surface [bgs], sampling, and laboratory analysis) to evaluate the extent of contamination. Based on the data obtained from Phase I activities, Phase II consisted of an additional five soil borings to 20-feet bgs, sampling, and laboratory analysis. Phase II includes, but is not limited to: developing a Corrective Action Plan; coordinating with the Nevada Division of Environmental Protection (NDEP) and the Environmental Protection Agency (EPA); performing soil sampling, analysis, and remediation; preparing waste manifests; and coordinating waste transportation and disposal contractors.

Throughout this project, BEC was responsible for coordination with other contractors at the active construction site, directing soil boring activities, collecting samples for laboratory analyses, and coordinating among state and federal agencies.

Project List

Client

Solauro Industries, Inc.

Services

- ❖ Biological
- ❖ NEPA

Project Highlights

- ❖ Development of a Biological Assessment for mine waste remediation
- ❖ Coordination with the Bureau of Land Management, Nevada Department of Wildlife, and the Nevada Natural Heritage Program

Deliverables

- ❖ Biological Assessment
- ❖ Environmental Assessment

Project Dates

- ❖ March 2012 - July 2013

Georgia Tailings Reclamation Biological Assessment and Environmental Assessment

Beatty, Nevada



Vegetation on site.
Source: BEC files.

Solauro Industries, Inc. (Solauro) contracted BEC Environmental, Inc. (BEC) to draft a Biological Assessment for the remediation of mining waste impacted Bureau of Land Management (BLM) land north of the Town of Beatty, Nevada. The project required consultation and coordination with the BLM, the Nevada Department of Wildlife, and the Nevada Natural Heritage Program. BEC conducted pedestrian surveys of the 220-acre site, logging evidence of potential threatened, endangered, protected, and sensitive flora and fauna.

Based on surveys and literature research, BEC provided Solauro with a Biological Assessment to be used as supplemental information for additional environmental impact analysis and BLM approval of the reclamation project.

Solauro subsequently contracted BEC to draft the Environmental Assessment for the BLM, to identify potential impacts of Solauro conducting mine tailings reclamation near Beatty, Nevada. Following completion of the Environmental Assessment, BLM approved the Solauro Plan of Operation to conduct the reclamation activities, near Beatty, Nevada.



Vegetation on site.
Source: BEC files.

Project List

Client

Glorieta Geoscience, Inc.

Services

- ❖ Economic Development Support
- ❖ Water Resource Planning and Compliance

Project Highlights

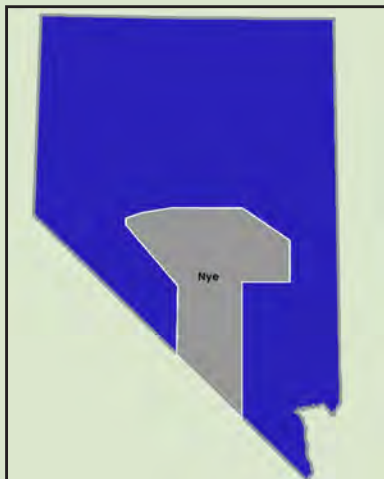
- ❖ Collected data and conducted research including population statistics and projected industry growth
- ❖ Assisted in review of the Water Supply Appraisal Report

Deliverables

- ❖ Population statistics and projected industry growth data
- ❖ PowerPoint presentation for Nye County Water Supply Appraisal Investigation Project

Project Dates

- ❖ March 2012 - August 2013



Nevada state map with Nye County detail.
Source: BEC files.

Nye County Water District Socioeconomic Analysis and Hydrology Data Verification

Nye County, Nevada

Glorieta Geoscience, Inc. (GGI) contracted BEC Environmental, Inc. (BEC) to assist in collecting data and conducting research relevant to community, business, and industry information in support of the Nye County Water District (NCWD) Water Supply Appraisal Investigation Project.

BEC coordinated with GGI to identify information needed for the Appraisal Investigation, such as population statistics and projected industry growth using primary data sources including, the U.S. Census Bureau and Nevada State Demographer.

BEC provided support to GGI to develop presentations to the NCWD. BEC also provided review and comments for the Water Supply Appraisal Report, as directed by GGI, including verifying water resource data.

Project List

Client

Bureau of Land Management, New Mexico State Office

Services

- ❖ Biological
- ❖ Environmental Characterization
- ❖ NEPA

Project Highlights

- ❖ Coordination with state and federal agencies Pedestrian survey for sensitive flora and fauna
- ❖ Sample collection of potentially contaminated soil

Deliverables

- ❖ Biological Survey Report
- ❖ Environmental Assessment

Project Dates

- ❖ April - September 2013

Spencer Abandoned Mine Environmental Assessment and Site Characterization

Albuquerque, New Mexico



Spencer abandoned mine site.
Source: BEC files.

BEC Environmental, Inc. (BEC) was contracted by the Bureau of Land Management (BLM) New Mexico State Office to conduct a biological survey, conduct environmental soil screening for uranium and other heavy metal contaminants, and draft an Environmental Assessment to support the remediation of an abandoned uranium mine near Albuquerque, New Mexico.

The project required consultation and coordination with two BLM Offices (New Mexico State Office and the Farmington Field Office) and the New Mexico Abandoned Mine Lands Program.

BEC conducted a pedestrian survey of the site, characterizing the condition of the site, logging evidence of potential threatened, endangered, protected, and sensitive flora and fauna, and collected soil samples of potentially contaminated soil. BEC provided a Biological Survey Report and, subsequently, an Environmental Assessment, to support the remediation decisions for the abandoned mine site.



Spencer abandoned mine site.
Source: BEC files.

Project List

Client

First Solar, Inc.

Services

- ❖ Outreach

Project Highlights

- ❖ Provided a Spanish speaking interpreter
- ❖ Identified key media outlets and environmental organizations, organized public meetings, and coordinated site tours for local officials

Deliverables

- ❖ Letters of Support
- ❖ Coordination and delivery of meeting materials
- ❖ Coordination of site tours

Project Dates

- ❖ September 2012 - September 2013



Community outreach meeting.

Source: BEC files.

First Solar Community Outreach

Amargosa Valley, Nevada

First Solar contracted BEC Environmental, Inc. (BEC) to assist in community outreach for the planning phase of their photovoltaic solar project in Amargosa Valley, Nevada. BEC assisted with introducing First Solar to public officials in Amargosa Valley, Nevada and Nye County, Nevada; including Amargosa Valley, Nevada Town Board Members and Nye County, Nevada County Commissioners.

BEC identified key media outlets and environmental organizations in Amargosa Valley, Nevada and aided in the organization of public meetings in Amargosa Valley, Nevada (including notifying members of the community, coordinating the printing and delivery of meeting materials, providing a Spanish speaking interpreter, providing meeting refreshments, and gathering names and contact information of attendees).

Community members who requested more information regarding how the project would affect them were contacted by BEC and meetings were arranged between those individuals and First Solar representatives.

Meetings with Nye County, Nevada County Commissioners and First Solar representatives were arranged in accordance with Nevada Open Meeting Law requirements.

BEC assisted with coordinating a site tour for local officials at a completed First Solar photovoltaic solar facility including arranging transportation to and from the site and providing refreshments.

Client

MaryEllen C. Giampaoli,
Environmental Compliance Specialist

Services

- ❖ Environmental Characterization

Project Highlights

- ❖ Revision of a Phase I ESA with recommendations for the Phase II ESA

Deliverables

- ❖ Tonopah Airport Refinery History Timeline Report
- ❖ Revision of the Draft Phase I ESA
- ❖ Recommendations Letter for Phase II ESA

Project Dates

- ❖ November 2013

Tonopah Airport Refinery Environmental Site Assessment

Tonopah, Nevada

Under contract with MaryEllen Giampaoli, Environmental Compliance Specialist, BEC Environmental, Inc. (BEC) utilized a Nevada Certified Environmental Manager to review and evaluate a draft Tonopah Airport Refinery Phase I Environmental Site Assessment for compliance with the associated ASTM Standard. BEC completed a review of potential environmental liabilities, and the assessment of possible environmental impairment due to the presence, handling, or disposal of hazardous substances. BEC revised the draft Phase I Environmental Site Assessment (ESA) and provided a descriptive letter of recommendations for the Phase II ESA to MaryEllen Giampaoli, Environmental Compliance Specialist.

Project List

Client

High Road Engineering, Inc.

Services

- ❖ Biological

Project Highlights

- ❖ Pedestrian Survey
- ❖ Biological Evaluations

Deliverables

- ❖ Biological Evaluation

Project Dates

- ❖ February - May 2015

Kaibab Paiute BIA Route 50 (Six Mile Road) Biological Evaluation

*Kaibab Band of Paiute Indian Reservation Mohave
County, Arizona*

High Road Engineering, Inc. subcontracted BEC Environmental, Inc. (BEC) to conduct surveys and produce a Biological Evaluation for the Kaibab Paiute Six Mile Road (Bureau of Indian Affairs [BIA] Route 50) drainage repair and improvement project located on the Kaibab Band of Paiute Indian Reservation in Mohave County, Arizona.



BIA Route 50 (Six Mile Road).

Source: BEC files.



Kaibab Paiute Reservation survey area.

Source: BEC files.

In conjunction with a project-specific list of U.S. Fish and Wildlife Service threatened and endangered species, BEC conducted a pedestrian survey to gather data on endangered, threatened, protected, or sensitive flora and fauna species, as well as suitable habitat for protected plants and animals, wetlands, waterways, and noxious weeds located within or adjacent to the proposed project area.

BEC assembled the data collected during field observations along with existing data to develop a Biological Evaluation for the proposed project.

Client

White Pine County

Services

- ❖ Renewable Energy Support

Project Highlights

- ❖ Coordination of contractors for completion of the Resource Assessment and Feasibility Report

Deliverables

- ❖ White Pine County Resource Assessment and Feasibility Study

Project Dates

- ❖ January 2013 - January 2014

White Pine County Renewable Energy Feasibility Study

White Pine County, Nevada

White Pine County retained BEC Environmental, Inc. (BEC) to assist with the completion of the Feasibility Study Report Summary to be developed under the County's U.S. Department of Energy (DOE) Renewable Energy Feasibility Study and Resources Assessment grant.



Spring Valley Wind site
Source: BEC files.

BEC assisted County staff with coordination of contractors to provide subject specific material and reports to be incorporated into the final document.

The White Pine County Resource Assessment and Feasibility Report was developed under this contract.

Project List

Client

Nye County Nuclear Waste Repository Project Office (NWRPO)

Services

- ❖ Government Liaison and Relations
- ❖ NEPA
- ❖ Renewable Energy Support

Project Highlights

- ❖ Inter-Agency Coordination
- ❖ Funding Coordination

Deliverables

- ❖ Draft Public Safety Phase II Proposal: Nye County to DOE
- ❖ Other draft proposals from Nye County to DOE
- ❖ Draft Memorandum of Understanding between the DOE/Office of Civilian Radioactive Waste Management and Nye County
- ❖ DOE Emergency Management Plan Review on behalf of Nye County
- ❖ Draft Memorandum of Understanding between Nye County and the Bureau of Land Management (BLM) for renewable energy
- ❖ Coordination of seven conference workshops for renewable energy developers, transmission developers, utilities, and regulatory agencies regarding specific developments
- ❖ Coordination for Nye County with renewable energy developers, transmission developers, utilities, and regulatory agencies regarding specific project developments

Project Dates

- ❖ August 2006 - March 2014

Nye County Inter-Agency Support and Project Management

Nye County, Nevada

BEC Environmental, Inc. (BEC) was contracted by the Nye County Nuclear Waste Repository Project Office (NWRPO) to advise, consult, and support County staff with all local, state, and federal inter-agency coordination. BEC reviewed and drafted comments on National Environmental Policy Act (NEPA) and other documents relevant to Department of Energy (DOE) developments affecting Nye County. BEC also facilitated funding for the Nye County Emergency Management Services Office and other Nye County offices through the preparation of successful Cooperative Agreement proposals between DOE and Nye County.

BEC assisted County personnel in the development of equipment, manning, and budgetary requirements for a professional fire station and emergency medical support service, and in the preparation of the related job descriptions. BEC also provided consultation regarding related services and an integrated approach to facilities and management for Nye County in relation to the DOE projects within the County.

BEC coordinated seven workshops that brought together key County stakeholders, renewable energy and transmission developers, utility representatives, and state and federal regulators to successfully identify and develop solutions for constraints affecting renewable energy development in Nye County, Nevada, and other western states.

BEC facilitated the development of a Nye County Memorandum of Understanding for the coordination and development of renewable energy with the four Bureau of Land Management Districts having jurisdiction in Nye County. BEC developed Memorandums of Understanding between Nye and Esmeralda Counties in Nevada and Inyo County, California, for the coordination of renewable energy and transmission development within the three county area. BEC facilitated Nye County coordination with the Department of Energy Office of Energy Efficiency, the Federal Energy Regulatory Commission, the Western Area Power Administration, the Western Electricity Coordinating Council, and their subordinate planning and policy groups, as well as the California Energy Commission, the Nevada and California Public Utility Commissions, utilities in Nevada and California and various renewable energy and environmental advocacy groups.

Project List

Client

Aztech Materials Testing, Inc.

Services

- ❖ Environmental Characterization

Project Highlights

- ❖ Consultation and coordination with client, property owner, and state regulatory agency
- ❖ Surface investigation and collection of soil samples

Deliverables

- ❖ Response to NDEP Request for Release/Spill Information

Project Dates

- ❖ February - July 2014



Spilled petroleum product.
Source: BEC files.

Goodfellow Enterprises Site Characterization and Soil Sampling

Boulder City, State

Aztech Materials Testing, Inc. (Aztech) subcontracted BEC Environmental, Inc. (BEC) for environmental services necessary for initial site characterization of a site owned by Goodfellow Enterprises (Goodfellow) property in Boulder City, Nevada. The subject site was proposed for transfer to the State of Nevada for the I-11 Corridor project.



Goodfellow Enterprises site conditions.
Source: BEC files.

BEC consulted with Aztech and Goodfellow staff to gather data and information on the property, previous soil excavation activities, and terms and conditions the property must meet prior to transfer of the land to the State. BEC performed a limited surface investigation exploration of the area for analysis of petroleum-related compounds. In response to the initial Request for Release/Spill Information letter issued by the Nevada Division of Environmental Protection (NDEP), BEC also completed a report summarizing field activities (waste characterization and confirmation sampling) and laboratory results from analysis of samples collected.

As a result of activities performed by BEC, the NDEP issued a “No Further Action” determination for the site, allowing the construction activities to proceed.

Project List

Client

Broadbent & Associates, Inc.

Services

- ❖ Outreach

Project Highlights

- ❖ English to Spanish translation of an NDEP fact sheet

Deliverables

- ❖ Spanish-language “Plan for Cleanup of Groundwater at the Maryland Square PCE Site” fact sheet

Project Dates

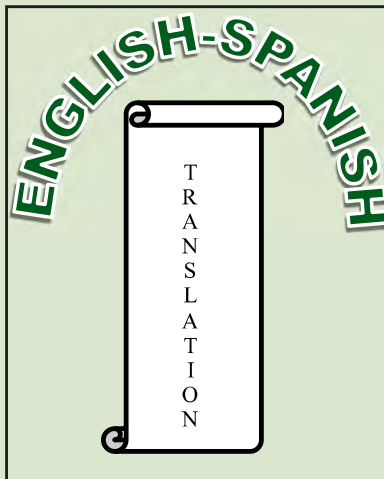
- ❖ August 2014

Contamination Cleanup Fact Sheet English to Spanish Translation Services

Las Vegas, Nevada

Broadbent & Associates, Inc. (Broadbent), on behalf of the Nevada Division of Environmental Protection (NDEP), contracted BEC Environmental, Inc. (BEC) to provide translation and formatting services for a fact sheet related to perchloroethylene (PCE) contamination cleanup in Las Vegas, Nevada.

BEC translated the “Plan for Cleanup of Groundwater at the Maryland Square PCE Site” fact sheet, as prepared by NDEP, from English to Spanish and formatting of the translated document to conform with the English-language version.



English-Spanish translation image.
Source: BEC files.

Client

City of Henderson

Services

❖ Brownfields

Project Highlights

❖ Brownfields Assessment grant awarded

Deliverables

❖ Draft of technical sections for inclusion in the EPA Brownfields Assessment Grant application

Project Dates

❖ September 2014

City of Henderson Brownfields Grant Application Technical Support

Clark County, Nevada

The City of Henderson contracted BEC Environmental, Inc. (BEC) to provide professional services in support of preparation of a draft U.S. Environmental Protection Agency (EPA) Brownfields Assessment Grant application for the Maryland Parkway Coalition in Clark County, Nevada.

BEC gathered information on previous assessments completed for sites within the target area and compiled a list of contaminants found during those assessment activities. Utilizing this information, BEC drafted a history of the target area, including the following:

- Past site uses
- List of contaminants found during assessment activities along the Corridor
- Cumulative environmental issues, such as airport noise, air pollution, attainment status, and flooding issue
- Potential cumulative health effects to residents along the corridor that may have resulted from exposure to contamination

Grant components completed by BEC were incorporated in the final grant application by the City of Henderson and ECONorthwest. The final application was submitted January 2015. The application resulted in a successful grant award for the City and ECONorthwest.

Project List

Client

Te-Moak Tribe of the Western Shoshone

Services

- ❖ Renewable Energy Support

Project Highlights

- ❖ Prepared a comprehensive analysis of the feasibility of a Battle Mountain Renewable Energy Park
- ❖ Provided grant management assistance to ensure compliance with the terms of the DOE Tribal Energy Program Grant

Deliverables

- ❖ ArcGIS map showing Tribal lands and proposed solar park
- ❖ Budget Justification (SF424) and Quarterly Reports to DOE
- ❖ Community engagement activities including a workshop, newsletter articles and Council progress reports
- ❖ Environmental Datasheet
- ❖ Fatal Flaw Analysis
- ❖ Feasibility Study Report
- ❖ Request for Proposals Document

Project Dates

- ❖ April 2013 - September 2014

Te-Moak Tribe Solar Feasibility Study

Battle Mountain, Nevada



Cultural survey on site.

Source: BEC files.

The Battle Mountain Band of the Te-Moak Tribe of the Western Shoshone Nation contracted BEC Environmental, Inc. to prepare a Solar Feasibility Study using funding from a DOE Tribal Energy Program Grant.

BEC worked with the Band and coordinated with multiple specialized subcontractors to successfully complete the project within budget and on-schedule, while assisting the Tribe in complying with grant conditions.

A Barriers and Opportunities Fatal Flaw Analysis and subsequently a Feasibility Study Report incorporating Technology and Financial / Business Model Assessments presented benefits and impacts of a five MW solar photovoltaic lease.

The Battle Mountain Band directed BEC to conduct a solicitation for a solar lease that resulted in the Tribe's selection of a qualified solar developer. Lease negotiations were underway at the time the project was completed.

Project List

Client

Esmeralda County

Services

- ❖ Economic Development Support
- ❖ Grants

Project Highlights

- ❖ Economic development through grant writing services

Deliverables

- ❖ Funding Opportunities and Priorities Planning Report
- ❖ Assistance to Firefighters Grant application
- ❖ Community Development Block Grant application
- ❖ Nevada Access Program grant application for repaving the Silver Peak Road
- ❖ Nevada Aging and Disability Services Division Non-Competitive Social Services grant application
- ❖ Nevada Department of Transportation Intermodal Planning/Transit Section grant application
- ❖ Nevada Governor's Office of Economic Development Economic Development Services grant application
- ❖ U.S. Department of Agriculture (USDA) Community Facilities grant application the Fish Lake Valley Community Center Complex Well Construction/Improvement
- ❖ USDA Community Facilities grant application for patrol vehicles for the Esmeralda County Sheriff's Office

Project Dates

- ❖ February 2013 - October 2014

Esmeralda County Economic Development and Grant Writing Services

Esmeralda County, Nevada

Esmeralda County contracted BEC Environmental, Inc. (BEC) to provide economic development and grant writing services to support initiatives, projects, and programs in Esmeralda County, Nevada. The focus identified was promoting supply chain and housing development to support mine and other industrial expansion.

BEC's mission is to foster job creation, increase localized fiscal multiplier effects, and expand the County's economic base, while minimizing adverse, social, economic, and environmental impacts. Funding opportunities and strategies to facilitate community and economic development based on County direction were identified.

BEC worked proactively with Esmeralda County, Nevada Governor's Office of Economic Development, other state and federal entities to identify suitable projects for the County.

Project List

Client

Esmeralda County

Services

- ❖ NEPA

Project Highlights

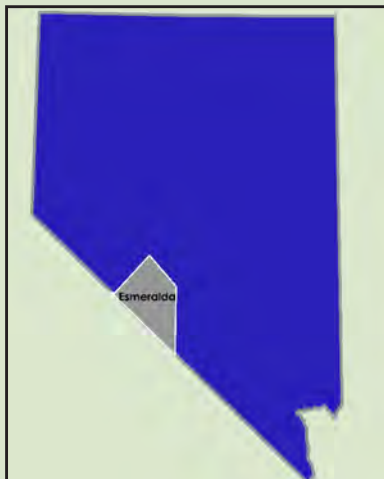
- ❖ Reviewed and provided draft comments on multiple iterations of the BLM RMP and Bi-State Sage Grouse EIS for Esmeralda County approval

Deliverables

- ❖ Draft comments on the BLM Bi-State Sage Grouse EIS and RMP
- ❖ Draft comments on the Greater Sage-grouse Draft Land Use Plan Amendment and EIS

Project Dates

- ❖ September 2013 - October 2014



Nevada state map with Esmeralda County detail.
Source: BEC files.

Esmeralda County Greater Sage-Grouse NEPA Review

Esmeralda County, Nevada

BEC Environmental, Inc. (BEC) reviewed National Environmental Policy Act (NEPA) documents, addressing the management and conservation of the Bi-state District Population Segment habitats of the greater sage-grouse within the states of Nevada and California, on behalf of Esmeralda County, Nevada.

Multiple state jurisdictions of federal agencies are completing or updating NEPA documents in response to the “warranted, but precluded” Endangered Species Act (ESA) finding from the U.S. Fish and Wildlife Service (USFWS), to address needed changes in management and conservation of the Bi-state Distinct Population Segment habitats within the County to support greater sage-grouse population management objectives within Nevada and California.

BEC reviewed and prepared draft comments on: the U.S. Forest Service (USFS) Greater Sage-grouse Bi-state Distinct Population Segment Forest Plan Amendment Draft Environmental Impact Statement (DEIS); Chapters 1, 2, and 3 of the Bureau of Land Management (BLM) Battle Mountain District Resource Management Plan and Environmental Impact Statement (EIS); and the BLM Nevada and Northeastern California Greater Sage-Grouse Draft Land Use Plan Amendment and EIS.

The USFS subsequently revisited the boundaries of the area in the DEIS based on comments submitted.

Project List

Client

Nye County Regional Economic Development Authority (NCREDA)

Services

- ❖ Grants
- ❖ Economic Development Support

Project Highlights

- ❖ Grant Writing
- ❖ Funding Research
- ❖ Permitting
- ❖ Technical Assistance

Deliverables

- ❖ Grant Application

Project Dates

- ❖ March - December 2014

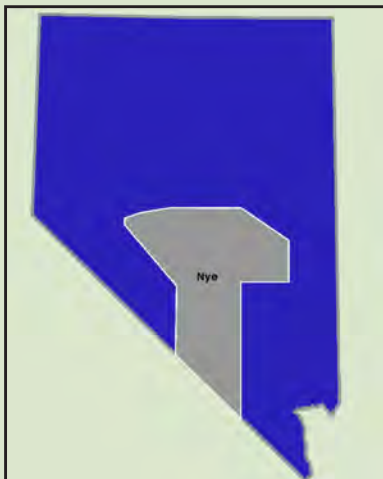
2014 Nye County Regional Economic Development Authority Technical Assistance and Grant Support

Nye County, Nevada

BEC Environmental, Inc. (BEC) was contracted by Nye County Regional Economic Development Authority (NCREDA) to assist in the facilitation of sustainable economic development and environmental-related projects, programs, and initiatives.

BEC's activities included:

- Providing technical assistance for the NCREDA Board on an as-needed basis as directed by the NCREDA Executive Director.
- Researching potential funding mechanisms and wrote grant applications to support economic development and environmental-related initiatives.
- Performing other projects as assigned by the NCREDA Executive Director.



Nevada state map with Nye County detail.

Source: BEC files.

Project List

Client

First Solar, Inc.

Services

❖ Outreach

Project Highlights

❖ Participation in Amargosa Days public outreach event

Deliverables

❖ Coordination

Project Dates

❖ May - December 2014

First Solar Sunshine Valley Solar Project Community Outreach

Amargosa Valley, Nevada

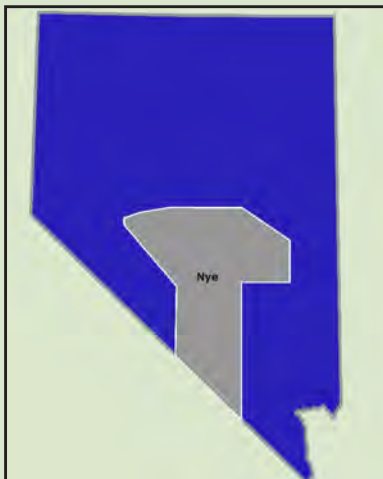
BEC Environmental, Inc. (BEC) was contracted by First Solar, Inc. to provide assistance to client's booth at Amargosa Days on May 10, 2014.



Alfalfa field in Amargosa Valley. Photo courtesy of TerraSpectra Geomatics. Source: Amargosa Valley Area Plan (2009)

Services provided include:

- Coordination with First Solar prior to the event, including the printing of updated project and corporate fact sheets, and participation in a teleconference to review updated project information.
- Transportation of supplies to and from the Amargosa Days event, including a pop-up tent (provided by First Solar), and provision of tables, extension cords, power strips, a computer monitor, printed fact sheets, and other supplies that may be requested by First Solar prior to the event.
- Participation in Amargosa Days, including arrival time of 7:00 am on May 10, 2014 to set up booth, activities during the day as directed by First Solar, and booth tear down at approximately 6:00 pm on May 10, 2014.
- Coordination with First Solar for post event debriefing and return shipping of supplies provided by First Solar.



Nevada state map with Nye County detail.

Source: BEC files.

Client

Nevada Housing Division

Services

- ❖ Environmental Characterization

Project Highlights

- ❖ Phase I completed to ASTM E1527-13 Standard for HUD grant-funded project

Deliverables

- ❖ Phase I ESA

Project Dates

- ❖ November - December 2014



Jeanell Apartments external view.
Source: BEC files.

Jeanell Apartments Phase I Environmental Site Assessment

Carson City, Nevada

BEC Environmental, Inc. (BEC) prepared a Phase I Environmental Site Assessment (ESA) for the Carson City Planning Department for construction of the Jeanell Drive Apartments, under an environmental review Master Services Agreement with the Nevada Housing Division. The construction project entailed demolition of an existing building and construction of a multi-family supportive living facility.

BEC conducted the ESA in accordance with guidelines provided in the American Society of Testing and Materials (ASTM) Standard Practices for Environmental Site Assessments: Phase I ESA Process (ASTM Designation: E1527-13).

BEC reviewed records from state and federal agencies and available databases that identify sites known or suspected of contamination, and facilities that handle hazardous substances or wastes, in the vicinity of the subject property. BEC reviewed regional geologic and hydrogeologic literature to assess soil characteristics, as well as the occurrence, relative depth, quality, and uses of groundwater and its potential vulnerability to contamination.

BEC reviewed available historical aerial photographs and archival topographic maps of the site and surrounding area to evaluate past land use. BEC then conducted a site reconnaissance of the property and surrounding areas to evaluate environmental conditions on the site and land uses of potential concern in the surrounding area. BEC interviewed current owners and local government officials to obtain information regarding potential recognized environmental conditions.

The findings of the records review, site reconnaissance and interviews were presented in a report provided to Carson City Planning and the Nevada Housing Division.

Client

Nye County

Services

- ❖ Brownfields
- ❖ Grants

Project Highlights

- ❖ Community outreach
- ❖ Brownfields properties identification
- ❖ Coordination with state and federal agencies

Deliverables

- ❖ Health & Safety Plans
- ❖ Quality Assurance Project Plans
- ❖ Sampling Analysis Plans
- ❖ Phase I & II Environmental Site Assessments
- ❖ Cleanup and Reuse Plans
- ❖ Quarterly Progress Reports

Project Dates

- ❖ December 2011 - December 2014



Coaldale brownfield site in Esmeralda County.
Source: BEC files.

2011 Brownfields Coalition Assessment Grant Management and Program Implementation

Nye, Esmeralda, Lincoln, White Pine County, Nevada, and Inyo County, California

Nye County contracted BEC Environmental, Inc. (BEC) to provide services in support of its Environmental Protection Agency (EPA) Brownfields Coalition Assessment grant for the identification, assessment, and reuse planning of sites for the Rural Desert Southwest Brownfields Coalition (RDSBC) which included Nye, Esmeralda, Lincoln, and White Pine County, Nevada, and Inyo County, California. As part of this process, BEC developed and refined a database to inventory potential Brownfields properties and distinguish between sites with potential hazardous substance and petroleum contamination by reviewing current and readily available public domain databases compiled by federal and state regulatory agencies. BEC also worked directly with community members and representatives to identify and assess Brownfield sites not readily identified through regulatory agencies. BEC's responsibilities included: preparing Phase I Environmental Site Assessments (ESAs), Health & Safety Plans, Quality Assurance Project Plans and/or Sampling Analysis Plans, Phase II ESAs, cleanup and reuse plans as appropriate, an Area Wide Plan, and drafting quarterly reports as required by the grant terms and conditions.

BEC worked with the Coalition, in partnership with local communities (governments, citizens and other community-based organizations), to conduct area-wide planning activities to help promote a shared vision amongst the five Coalition members, citizens, business and other stakeholders. Throughout this project, BEC was involved in community outreach programs to address each community's concerns by facilitating meetings to educate and inform the public on the status of the project activities and solicit public input and direction.

The RDSBC grant was the first of its kind in the nation, and subject to Congressional review and oversight. It presented a unique and innovative approach to promoting energy project development on Brownfield sites.

Project List

Client

Town of Tonopah

Services

- ❖ Economic Development Support
- ❖ Grants

Project Highlights

- ❖ Grant Application

Deliverables

- ❖ Grant Application

Project Dates

- ❖ October 2012 - December 2014

Tonopah Economic Development Support

Tonopah, Nevada

BEC Environmental, Inc. (BEC) was contracted by Town of Tonopah, Nevada to assist in the facilitation of the Town of Tonopah's sustainable economic development and environmental related projects, programs, and initiatives.

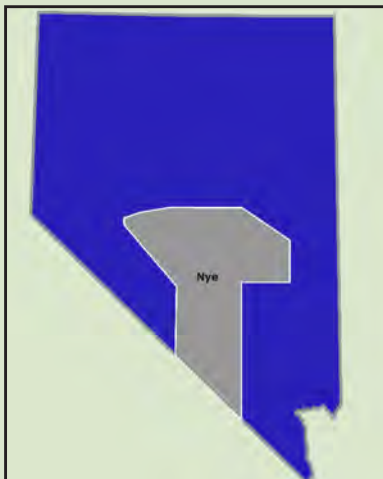


View of the Town of Tonopah.

Source: Adapted from Western Mining History.

BEC performed the following tasks:

- Provided grant support for infrastructure economic development, and environmental-related initiatives identified by the Town of Tonopah.
- Facilitated economic development opportunities throughout the Town of Tonopah.
- Identified housing, food, and other amenities to support incoming labor for the Solar Reserve Construction Project.



Nevada state map with Nye County detail.

Source: BEC files.

Project List

Client

Nevada Sea Dream, Inc.

Services

- ❖ Economic Development Support
- ❖ Permitting and Compliance Support

Project Highlights

- ❖ Developed permit matrix and summary report
- ❖ Assisted with permit applications
- ❖ Regulatory agency coordination

Deliverables

- ❖ Permitting requirements summary report
- ❖ Permit Matrix

Project Dates

- ❖ June 2014 - January 2015

Microdel Aquaculture Permitting and Agency Coordination Support

Douglas County, Nevada

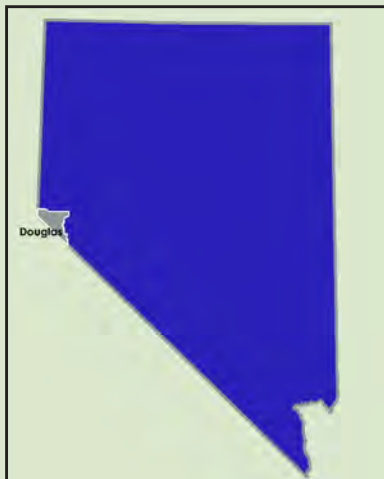


Aquaculture example. Source: www.agmrc.org/commodities-products/aquaculture/aquaculture-profile/.

Microdel Limited, d.b.a. Nevada Sea Dream, Inc., contracted BEC Environmental, Inc. (BEC) to assist in the development and local coordination of an aquaculture facility in Douglas County, Nevada. BEC conducted research on permitting requirements of local, county, and state regulating agencies. Based on the information collected, a permit matrix and summary report of the permitting process and timeline was completed, confirming the proposed aquaculture facility was a viable project for Douglas County, Nevada.

BEC also assisted in the completion and submission of necessary permits, including conducting research on land ownership status and environmental concerns.

BEC also acts as the local liaison (point of contact) for the Sea Dream aquaculture facility for local, county, and state agencies requiring information on the facility's design, construction and permitting progress, and operational timelines. BEC coordinates meetings with agents of Microdel and the involved local, county, and state agency representatives.



Nevada state map with Douglas County detail.
Source: BEC files.

Project List

Client

Nye County School District

Services

- ❖ Biological

Project Highlights

- ❖ Desert Tortoise Presence/Absence Survey

Deliverables

- ❖ Presence/Absence Survey Summary Report
- ❖ BLM and USFWS Biological Assessment and Consultation Support

Project Dates

- ❖ January - February 2015

Nye County School District Pahrump Facility Tortoise Survey and Consultation Support

Pahrump, Nevada

The Nye County School District proposed to construct new facilities in Pahrump, Nevada on 76.6 acres of Bureau of Land Management (BLM) Recreation and Public Purpose (R&PP) lands. Prior to approval of such an action, the potential impacts on natural resources in the area had to be assessed.



Survey path.

Source: BEC files.

BEC Environmental, Inc (BEC) was contracted by the Nye County School District to conduct a Mojave desert tortoise (*Gopherus agassizii*) presence/absence survey for this parcel of land to assess impacts of the project.

BEC conducted the survey in accordance with standard U.S. Fish and Wildlife Service (USFWS) protocols, and provided a summary report of the survey findings to the Nye County School District.

The School District subsequently requested that BEC assist them during the Endangered Species Act Section 7 consultation process with the BLM and the USFWS by developing additional documentation and for development of the Biological Assessment and review of the draft Biological Opinion for the land lease. Based on the report, the BLM renewed the School District's lease for the 76.6 acre parcel.



Eggshell fragment observed on site.

Source: BEC files.

Project List

Client

High Road Engineering, Inc.

Services

- ❖ Biological

Project Highlights

- ❖ Pedestrian Surveys
- ❖ Coordination with environmental consultants, Kaibab Paiute representatives and Bureau of Indian Affairs biologist

Deliverables

- ❖ Biological Evaluations

Project Dates

- ❖ November 2013

Kaibab Paiute Reservation Biological Evaluation

Kaibab, Arizona



Kanab Creek on Kaibab Paiute Reservation.
Source: BEC files.

High Road Engineering, Inc. subcontracted BEC Environmental, Inc. (BEC) to draft a Biological Evaluation for the installation of a three mile fitness trail and the construction of a bridge on the Kaibab Paiute Reservation, Kaibab, Arizona. The potential and actual occurrences of threatened, endangered, protected and sensitive flora and fauna along the alignment for both projects were catalogued through pedestrian surveys.

BEC completed a Biological Evaluation for each of the three projects, which were submitted to the Bureau of Indian Affairs for approval and guidance in additional environmental studies and construction of the trail and bridge.



Kanab Creek bank on Kaibab Paiute Reservation.
Source: BEC files.

Project List

Client

Stimulus Technologies

Services

- ❖ Biological
- ❖ Permitting and Compliance Support

Project Highlights

- ❖ Tortoise Monitor Training
- ❖ Hazardous Materials Management Training
- ❖ Solid Waste Management Training

Deliverables

- ❖ Paper copy of the in-house presentation
- ❖ Paper certificate identifying participation in the training

Project Dates

- ❖ June 2015

Tortoise Monitor Training

Las Vegas, Nevada

BEC Environmental, Inc. (BEC) was contracted by Stimulus Technologies (Client) to provide professional services for training Client staff members to act as desert tortoise monitors, per BLM's guidance for the requirements of the project.



Mojave Desert.
Source: BEC files.

BEC conducted a training session in-house on how to identify a Mojave desert tortoise (*Gopherus agassizii*); protocols to follow if a tortoise is encountered on site; how to review a Biological Opinion and applicable federal and state regulations regarding the Mojave desert tortoise.

Upon completion of the training, client's participating staff received guidance and informational materials for reference to assist in monitoring duties, as well as a certificate identifying the individual as having received the training.



Desert Tortoise Field Survey.
Source: BEC files.

Project List

Client

Esmeralda County

Services

- ❖ Grants

Project Highlights

- ❖ Management of ADSD Non-Competitive Social Services Grant
- ❖ Management of NDOT Intermodal Planning/Transit Section Grant

Deliverables

- ❖ Revised Esmeralda Transportation Program Policies Manual
- ❖ Monthly progress reports
- ❖ Quarterly financial and progress reports

Project Dates

- ❖ May 2014 - July 2015

Esmeralda County Transportation Grant Management and Program Oversight

Esmeralda County, Nevada

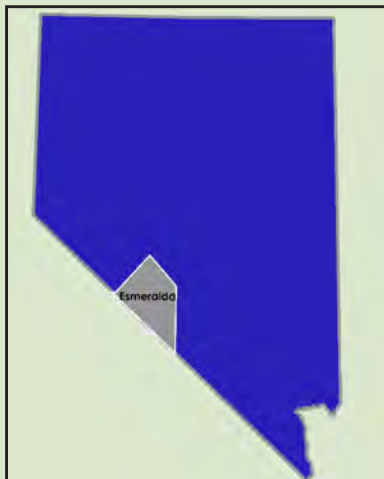


Esmeralda County courthouse in Goldfield, Nevada.
Source: Wikipedia 08/18/17.

Esmeralda County contracted BEC Environmental, Inc. (BEC) to provide technical assistance with management of grants awarded to Esmeralda County from the Nevada Aging and Disability Services Division (ADSD) Non-Competitive Social Services program and from the Nevada Department of Transportation (NDOT) Intermodal Planning/Transit Section.

BEC coordinated grant documents, provided project management assistance, and maintained grant administration.

Upon receipt of ADSD funds, BEC assisted Esmeralda County with revision of the Esmeralda Transportation Program Policies Manual to incorporate additional program policies as required by ADSD. BEC also assisted with monthly and quarterly ridership and financial reporting requirements for both grants.



Nevada state map with Esmeralda County detail.
Source: BEC files.

Client

McGinley & Associates, Inc.

Services

- ❖ NEPA

Project Highlights

- ❖ Environmental Impact Analysis for Biological and Socioeconomic Resources

Deliverables

- ❖ Draft sections for EA

Project Dates

- ❖ June - July 2015

Northern Nevada Veterans Home Environmental Assessment Support

Sparks, Nevada

BEC Environmental, Inc. (BEC) was contracted by McGinley & Associates, Inc. to provide professional services for the drafting of a United State Department of Veterans Affairs (VA) Environmental Assessment (EA) for the construction of a veterans home on 20 acres of land in Sparks, Nevada.

BEC developed the sections of the EA describing potential impacts on biological and socioeconomic resources. The narrative included potential cumulative effects and potential mitigation measures.



The Northern Nevada Veterans Home.

Source: Nevada Department of Veterans Services and Community Living Center Planning and Design Team FAI #32-003.

Project List

Client

Nevada Housing Division

Services

- ❖ NEPA

Project Highlights

- ❖ Division Approval of Environmental Review Record
- ❖ SHPO Concurrence with Section 106 Consultation Findings

Deliverables

- ❖ Environmental Assessment
- ❖ SHPO Section 106 Consultation Package

Project Dates

- ❖ June - July 2015

Jeanell Apartments Construction HUD Environmental Review

Carson City, Nevada

BEC Environmental, Inc. (BEC) evaluated the potential environmental impacts of the proposed demolition of an existing building and construction of multi-family supportive living facility for Carson City Planning, under an environmental review Master Services Agreement with the Nevada Housing Division.



Exterior of westernmost building.

Source: BEC files.

BEC conducted the review in accordance with the National Environmental Policy Act (NEPA) and U.S. Housing and Urban Development (HUD) regulations 24 CFR 50.4, 58.5, and 58.6. Based on BEC's review of HUD regulations and the project description, the level of environmental review was determined to be an Environmental Assessment. The environmental review covered various development, socioeconomic, community facilities and services, and environmental and natural features assessment factors.

BEC professionals compiled and reviewed available information on each of the elements, assessed the potential for impacts to those elements, identified required mitigation where applicable, and documented the review.

As part of the environmental review process, BEC drafted the Nevada State Historic Preservation Office (SHPO) Section 106 Consultation Package, which the Division submitted to SHPO for a concurrence determination.

An Environmental Assessment was developed for Division review. An Environmental Review Record was compiled which contained the data and documents supporting the determinations made in the Assessment.



Southern parking area and concrete-lined plant area.

Source: BEC files.

Project List

Client

MaryEllen C. Giampaoli,
Environmental Compliance Specialist

Services

- ❖ Recycling and Solid Waste Management Planning
- ❖ Environmental Characterization

Project Highlights

- ❖ Entry RAE Multi-gas Meter, Model PGM-3000 training
- ❖ Pahrump landfill inspection module 3 training
- ❖ Waste acceptance criteria training

Deliverables

- ❖ Training for Nye County Works personnel to conduct inspections

Project Dates

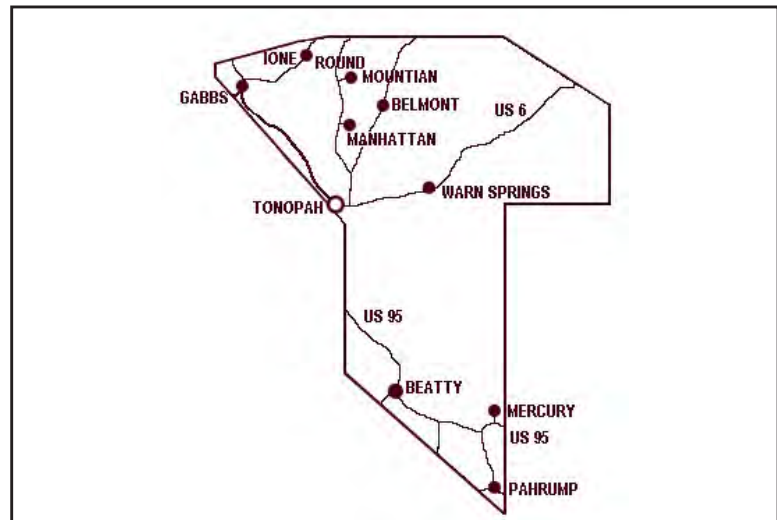
- ❖ September 2014 - August 2015

Nye County Landfill Gas Monitoring

Nye County, Nevada

BEC Environmental, Inc. (BEC) was subcontracted by MaryEllen C. Giampaoli, Environmental Compliance Specialist, to prepare and provide training to Nye County Public Works personnel. Trainings include:

- Entry RAE Multi-Gas Meter, Model PGM-3000
- Pahrump Landfill Inspection Module 3
- Waste Acceptance Criteria



Map of Nye County with landfill facilities identified by the star.
Source: Adapted from ww.bprlicenseplates.com/Nevada



Pahrump, Nevada landfill.
Source: BEC files.

Project List

Client

Broadbent & Associates, Inc.

Services

- ❖ Environmental Characterization

Project Highlights

- ❖ Attended meetings relevant to the project
- ❖ Reviewed and provided draft comments on multiple documents relevant to the project

Deliverables

- ❖ Meeting summaries
- ❖ Document review comments

Project Dates

- ❖ March 2014 - August 2015

Black Mountain Industrial Site Outreach Support and Technical Review

Henderson, Nevada

Broadbent & Associates, Inc. (Broadbent) subcontracted BEC Environmental, Inc. (BEC) to provide public outreach support and review of technical documents regarding environmental cleanup of the Black Mountain Industrial (BMI) Complex Site for the Nevada Division of Environmental Protection (NDEP).



BMI complex aerial view. Source: <https://ndep.nv.gov/environmental-cleanup/site-cleanup-program/active-cleanup-sites/bmi-complex>.

BEC was tasked with attending meetings as directed and providing meeting summaries and preparing review comments for documents relating to the project.

BEC provided technical review of documents and data associated with groundwater monitoring wells. Documents reviewed included:

- Response to NDEP Comments
- Data Usability Evaluation
- Human Health Risk Assessment and Closure Report

Project List

Client

High Road Engineering, Inc.

Services

- ❖ Biological
- ❖ Coordination with environmental consultants, Shivwits Paiute representatives, and Bureau of Indian Affairs biologist

Project Highlights

- ❖ Coordination with environmental consultants, Shivwits Paiute representatives and Bureau of Indian Affairs biologist
- ❖ Pedestrian Surveys

Deliverables

- ❖ Biological Evaluation

Project Dates

- ❖ June - August 2015

Shivwits Paiute Reservation Trail Biological Evaluation

Ivins, Utah



Vegetation observed on site.
Source: BEC files.

High Road Engineering, Inc. subcontracted BEC Environmental, Inc. (BEC) to conduct surveys and produce a Biological Evaluation for the development of the Shivwits Bicycle and Pedestrian Trail on the Shivwits Paiute Reservation, near Ivins, Utah.

The potential and actual occurrences of threatened, endangered, protected and sensitive flora and fauna along the proposed project alignment were compiled from existing records, then catalogued through pedestrian surveys. BEC compiled the information from the existing data and the field observations into a Biological Evaluation for the proposed project.

The information from the Biological Evaluation was incorporated into an Environmental Assessment, which was submitted to the Bureau of Indian Affairs to request approval of and guidance in construction of the trail.



Shivwits Reservation sign.
Source: BEC files.

Project List

Client

Nevada Housing Division

Services

- ❖ NEPA

Project Highlights

- ❖ Division Approval of Environmental Review Record

Deliverables

- ❖ Environmental Assessment

Project Dates

- ❖ July - September 2015

Southwood Apartments Rehabilitation Environmental Review

Yerington, Nevada

BEC Environmental, Inc. (BEC) evaluated the potential environmental impacts of construction of a community multi-use facility and upgrades to the Southwood Apartments in Yerington, Nevada, under an environmental review Master Services Agreement with the Nevada Housing Division.



Southwood Apartments Vicinity Map.

Source: Google Earth/BEC files.

BEC conducted the review in accordance with the National Environmental Policy Act (NEPA) and U.S. Housing and Urban Development (HUD) regulations 24 CFR 50.4, 58.5, and 58.6. Based on BEC's review of HUD regulations and the project description, the level of environmental review was determined to be an Environmental Assessment. The environmental review covered various development, socioeconomic, community facilities and services, and environmental and natural features assessment factors.

BEC professionals compiled and reviewed available information on each of the elements, assessed the potential for impacts to required elements, identified required mitigation where applicable, and documented the review.

An Environmental Assessment was developed for Division review. An Environmental Review Record was compiled which contained the data and documents supporting the determinations made in the Assessment.

Client

Nevada Housing Division

Services

- ❖ NEPA

Project Highlights

- ❖ Division Approval of Environmental Review Record

Deliverables

- ❖ Categorical Exclusion Subject to the laws and authorities in 24 CFR Section 58.5
- ❖ HUD Floodplain Management Documentation

Project Dates

- ❖ July - September 2015



Caliente, Nevada site.

Source: Civil Works, Inc. Phase I Assessment Report.

Three Properties in Lincoln County Environmental Review

Caliente, Panaca, and Pioche, Nevada

BEC Environmental, Inc. (BEC) evaluated the potential environmental impacts of proposed upgrades and rehabilitation of residential properties at three locations in Lincoln County, under an environmental review Master Services Agreement with the Nevada Housing Division.

BEC conducted the review in accordance with the National Environmental Policy Act (NEPA) and U.S. Housing and Urban Development (HUD) regulations 24 CFR 50.4, 58.5, and 58.6. Based on BEC's review of HUD regulations and the project description, the level of environmental review was determined to be a HUD Categorical Exclusion Subject to the laws and authorities in 24 CFR Section 58.5 (CEST). The environmental review covered Air Quality, Environmental Justice, Explosive and Flammable Concerns, Flood Insurance, Floodplain Management, Historic Preservation, Noise Abatement and Control, Site Contamination, Wetlands Protection, Wild and Scenic Rivers, Airport Hazards, Farmlands Protection, Coastal Barrier Resources, Coastal Zone Management, and Sole Source Aquifers.

BEC professionals compiled and reviewed available information on each of the required elements, assessed the potential for impacts to those elements, identified required mitigation where applicable, and documented the review.

Documentation of the potential impacts was summarized using HUD templates and an Environmental Review Record was compiled and submitted.

Project List

Client

McGinley & Associates, Inc.

Services

- ❖ Biological

Project Highlights

- ❖ Desert Tortoise Clearance Survey

Deliverables

- ❖ Desert Tortoise Clearance Survey Report

Project Dates

- ❖ April 2015 - January 2016

Mountains Edge Elementary School Desert Tortoise Clearance Survey

Las Vegas, Nevada



Site conditions at future Mountains Edge Elementary School.
Source: BEC files.

BEC Environmental, Inc. (BEC) was contracted by McGinley & Associates, Inc. (McGinley) to conduct a desert tortoise (*Gopherus agassizii*) clearance survey on a 15 acre parcel, number 176-34-401-014, in Clark County, Nevada.

Once the clearance was complete, a summary of the survey results was submitted to McGinley.



Entrance and surrounding habitat for a Class 2 burrow on site.
Source: BEC files.

Project List

Client

Nye County

Services

❖ Grants

Project Highlights

❖ Successful Grant Application

Deliverables

❖ Environmental Workforce Development and Job Training Grant Applications

Project Dates

❖ November 2015 - January 2016

Nye County Environmental Workforce Development and Job Training Grant Application

Pahrump, Nevada

BEC Environmental, Inc. (BEC) was contracted by Nye County to provide professional services for preparation of an application for the U.S. Environmental Protection Agency (EPA) FY16 Environmental Workforce Development and Job Training (EWDJT) Grant for funding to continue implementation of Nye County's Environmental Job Training program.



Graduates of Nye County's Environmental Job Training Program.
Source: BEC files.

The application prepared by BEC garnered \$200,000 for Nye County.

Activities performed for the successful grant application included:

- Preparation of the project approach, application, and budget in coordination with Nye County and Nye Communities Coalition.
- Identification of and coordination with community organizations to obtain commitments of support for the proposed project.
- Drafting of support letters for review, consideration, and signature by community organizations and other stakeholders.



Training equipment funded under grant award.
Source: BEC files.

Project List

Client

Nye County

Services

❖ Grants

Project Highlights

❖ Grant Application Development

Deliverables

- ❖ AFG Regional Project grant application
- ❖ AFG Vehicle Acquisition grant application

Project Dates

❖ December 2015 - January 2016

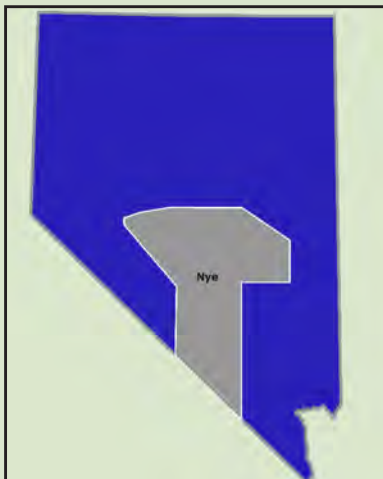
Nye County Assistance to Firefighters Grant Applications

Nye County, Nevada

BEC Environmental, Inc. (BEC) was contracted by Nye County to provide professional services for preparation of two applications for Federal Emergency Management Agency (FEMA) Assistance to Firefighters Grant (AFG) funding to purchase 197 sets of new Personal Protective Equipment (PPE), three ambulances, and two Quick Response Vehicles.

Grant application preparation included:

- Preparation of the project approaches, applications, and budgets in coordination with Nye County departments.
- Identification and coordination with community organizations to obtain commitments of support for the proposed project, as appropriate.
- Drafting of support letters for review, consideration, and signature by community organizations and other stakeholders, as appropriate.



Nevada state map with Nye County detail.

Source: BEC files.

Project List

Client

White Pine County

Services

- ❖ Grants

Project Highlights

- ❖ Management of Renewable Energy Feasibility Study and Resource Assessment grant

Deliverables

- ❖ Grant and award documents
- ❖ Quarterly progress and financial reports
- ❖ Annual Project Management Plan Update

Project Dates

- ❖ April 2012 - February 2016

White Pine County Department of Energy Grant Support

White Pine County, Nevada

White Pine County (WPC) contracted BEC Environmental, Inc. (BEC) to provide professional services for assistance with management of the Renewable Energy Feasibility Study and Resource Assessment grant.

BEC coordinated grant documents, provided project management and maintained grant administration.

Approval of release of award funds from the Department of Energy (DOE) was coordinated by BEC. BEC also worked to identify relevant funding mechanisms to leverage in support of DOE project activities.

The purpose of the grant was to promote educational opportunities for local middle-school-age children, to expand employment opportunities for local residents, and to diversify the local economy.

BEC assisted WPC in making grant work plan modifications to address changes in the project approach and to maintain flexibility in economic diversification opportunities.



Nevada state map with White Pine County detail.
Source: BEC files.

Client

Advanced Rail Energy Storage, LLC

Services

- ❖ Biological

Project Highlights

- ❖ Coordinated with multiple federal, state and local agencies to assist in permitting the project
- ❖ Pedestrian Surveys

Deliverables

- ❖ Biological Assessment
- ❖ Biological Survey Report

Project Dates

- ❖ January 2013 - February 2016



Vegetation on site.
Source: BEC files.

Advanced Rail Energy Storage (ARES) Natural Resources Surveys Nevada

ARES Nevada, LLC (ARES) contracted BEC Environmental, Inc. (BEC) to provide professional support for the permitting and development of a first-of-its-kind, \$50 Million grid-scale Regulation Energy Management facility to deliver ancillary services to the regional electrical grid.

The proposed project is to be constructed on Federal land managed by the Bureau of Land Management (BLM), therefore the potential environmental impacts of the activity must be evaluated and permits must be obtained. To support those efforts, an inventory of the resources in the area was required. As part of the overall environmental support contract, BEC was tasked with conducting natural resources surveys of the proposed area. As part of the process, BEC conducted surveys for BLM sensitive plants and inventoried noxious weeds present in the project area. A BLM-approved BEC botanist conducted the surveys and the BEC team compiled the findings in a summary report for BLM review and concurrence.

BEC coordinated with the Southern Nevada District and Pahrump Field Offices of the BLM, to identify and confirm the survey requirements and protocol and develop survey plans.

BEC conducted pre-project surveys for the Mojave desert tortoise in accordance with BLM and U.S. Fish and Wildlife Service standard protocols. BEC biologists compiled the resulting data and drafted the summary report for BLM review and concurrence. BEC also developed the Biological Assessment to support the Endangered Species Act Section 7 consultation process.

Client

Las Vegas Valley Water District

Services

❖ Grants

Project Highlights

❖ Funding Research
❖ Grant Writing

Deliverables

❖ Funding Opportunity Report

Project Dates

❖ June 2014 - February 2016

Las Vegas Valley Water District Technical Assistance and Grant Writing Services

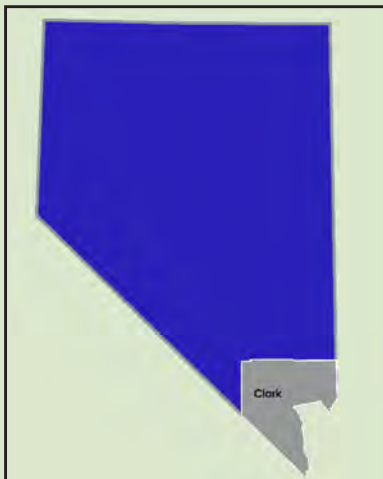
Las Vegas, Nevada

BEC Environmental, Inc. (BEC) was retained by Las Vegas Valley Water District (LVVWD) to provide technical assistance and grant writing services.

BEC coordinated with Federal Funding agencies and their representatives to facilitate relationships between LVVWD and grant funding agencies. Additionally, BEC worked with other agencies in Clark County, such as the Clark County Fire Department, to explore sharing resources to minimize costs.

BEC's services included:

- Funding research
- Advanced project planning
- Grant writing
- Grant administration
- Progress and return on investment reporting
- Inter-agency coordination



Nevada state map with Clark County detail.
Source: BEC files.

Project List

Client

McGinley & Associates, Inc.

Services

- ❖ Biological

Project Highlights

- ❖ Desert Tortoise Presence/Absence Survey

Deliverables

- ❖ Presence/Absence Survey Summary Report

Project Dates

- ❖ December 2015 - February 2016

Clark County School District Tortoise Survey

Clark County, Nevada



South field view.
Source: BEC files.

BEC Environmental, Inc. (BEC) was contracted by McGinley & Associates, Inc. (McGinley) to provide professional services to conduct a Mojave desert tortoise (*Gopherus agassizii*) presence/absence survey on a 40-acre parcel, county assessor number 125-05-101-004, in Clark County, Nevada.

BEC conducted a field survey providing 100% coverage of the parcel.

Once the survey was complete, a survey summary report was submitted to McGinley.



North field view.
Source: BEC files.

Client

Metro-Fresh Ltd.

Services

- ❖ Permitting and Compliance Support
- ❖ Outreach

Project Highlights

- ❖ Permit application assistance
- ❖ Regulatory agency coordination
- ❖ Site identification assistance

Deliverables

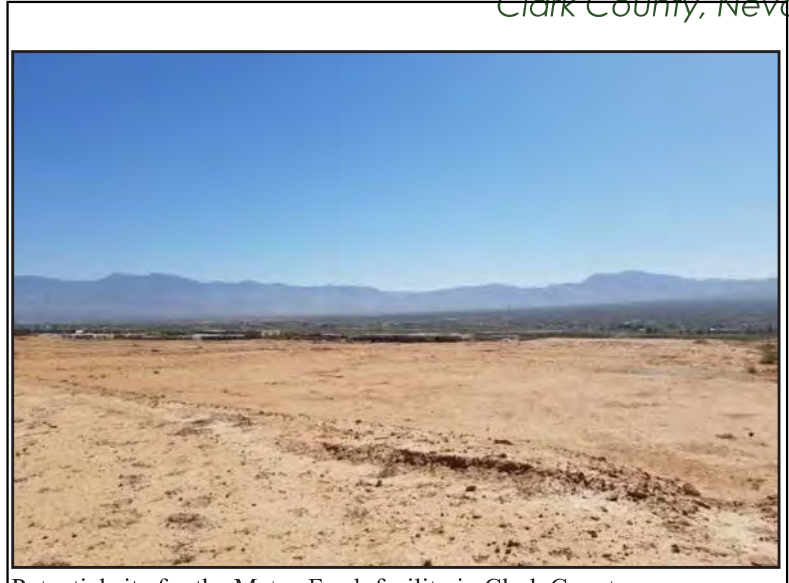
- ❖ Permit submittal timeline
- ❖ Letter summarizing regulatory requirements

Project Dates

- ❖ February 2016 - March 2016

Metro-Fresh Aquaculture Farm Permitting and Stakeholder Coordination

Clark County, Nevada

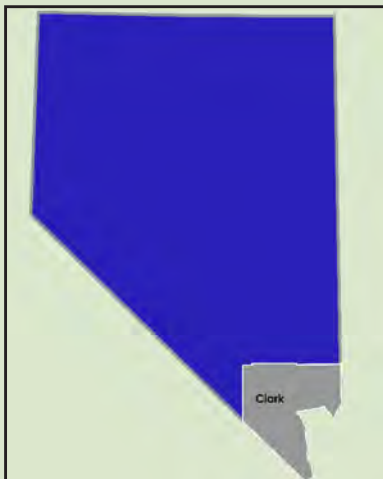


Potential site for the Metro-Fresh facility in Clark County.
Source: BEC files.

Metro-Fresh Ltd., d.b.a. Metro Fresh Las Vegas, contracted BEC to assist in the siting and permitting of a closed-loop water circulation horticulture facility on private land in Clark County, Nevada. BEC conducted research on permitting for local, county, and state agencies and coordinated meetings with multiple land owners, developers and distributors.

BEC will continue to assist Metro Fresh with completing the permitting and facility certification process, including coordinating meetings with the agents of Metro-Fresh and the involved local, county, and state agency contacts, and preparing permit applications.

As the project moves forward, BEC will act as a resource to assist Metro Fresh with regulatory coordination and permitting as needed.



Nevada state map with Clark County detail.
Source: BEC files.

Project List

Client

Clark County Department of Real Property Management

Services

- ❖ Permitting and Compliance Support

Project Highlights

- ❖ Air Emission Testing Services
- ❖ Annual air quality compliance reporting

Deliverables

- ❖ Source Test Protocol
- ❖ Source Test Report
- ❖ 2015 Annual Report and Emission Inventory for Minor Source Permit #16665

Project Dates

- ❖ January - March 2016

Clark County Regional Justice Center Air Emissions Test

Las Vegas, Nevada

BEC Environmental, Inc. (BEC) was contracted by Clark County Department of Real Property Management to perform Air Emission Testing Services on two boilers located at the Regional Justice Center (RJC), and complete annual air quality compliance reporting for renewal the facility's Minor Source Permit.

BEC provided the following services:

- Prepared a source test protocol for Clark County Department of Real Property Management review and submittal to the Clark County Department of Air Quality (DAQ).
- Prepared a source test report for Client review and submitted to the DAQ .
- Prepared the 2015 Annual Report and Emission Inventory for Minor Source Permit #16665



Exhaust stacks for Boilers 1 and 2.

Source: BEC files.

Project List

Client

NOVA Geotechnical and Inspection services (NOVA)

Services

- ❖ Environmental Characterization

Project Highlights

- ❖ Asbestos Survey and Inspections
- ❖ Pre-Demolition Hazardous Materials Surveys

Deliverables

- ❖ Field notes with asbestos sample location and hazardous material location diagrams
- ❖ Site Specific Health and Safety Plan

Project Dates

- ❖ April - June 2016

Project NEON Pre-Demolition Asbestos, Lead-Based Paint, and Hazardous Materials Surveys

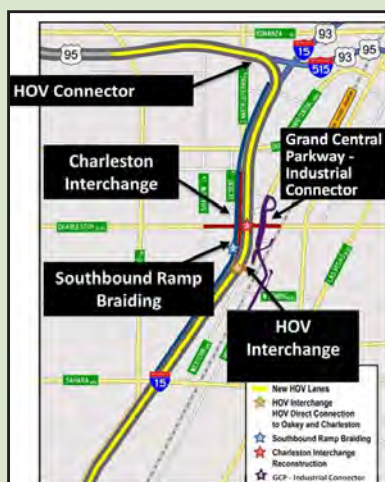
Las Vegas, Nevada

BEC Environmental, Inc. (BEC) was retained by NOVA Geotechnical and Inspection Services (NOVA) to provide asbestos and hazardous materials surveys for five sites located in Las Vegas, Nevada, in support of Project Neon. Project Neon is the State of Nevada's largest and most expensive public works project ever undertaken.

The Nevada Department of Transportation (NDOT), Federal Highway Administration (FHWA), and City of Las Vegas were working with multiple contractors and subcontractors to alleviate traffic congestion through the U.S. Highway 95 (U.S. 95) and Interstate 15 (I-15) interchange. A minimum of 33 structures were scheduled for demolition to facilitate the project.

BEC provided AHERA-trained building inspectors and Nevada licensed asbestos abatement consultants to conduct pre-demolition asbestos and hazardous materials surveys of buildings identified for demolition. The presence and quantity of hazardous materials including mercury containing fluorescent lighting, polychlorinated biphenyl containing ballasts, radioactive material containing smoke detectors, chlorofluorocarbon refrigerants in air conditioner units, indications of past chemical spills, and remaining chemical containers with their associated potential hazards were documented in field notes.

Surveys and inspections aided in identifying the composition and contents of the buildings to determine what asbestos abatement and other hazardous material disposal must occur prior to and during demolition.



Project Overview Map.

Source: ndotprojectneon.com

Project List

Client

Great Basin Regional Development Authority

Services

- ❖ Economic Development Support
- ❖ Grant Services

Project Highlights

- ❖ Support for economic development through grant writing activities
- ❖ Successful grant award

Deliverables

- ❖ EDA Planning and Local Technical Assistance Grant Application

Project Dates

- ❖ October 2014 - July 2016

Great Basin Regional Economic Development Authority Grant Services

Eureka, Lander, and White Pine Counties, Nevada

The Great Basin Regional Development Authority (GBRDA) contracted BEC Environmental, Inc. (BEC) to provide professional services for grant writing activities in support of economic development initiatives in Eureka, Lander, and White Pine Counties.

BEC assisted the GBRDA Board of Directors with the preparation of a successful U.S. Economic Development Administration (EDA) Planning and Local Technical Assistance grant application. The grant provided over \$29,000 to facilitate completion of a Comprehensive Economic Development Strategy (CEDS) for the GBRDA region. BEC also assisted with collection and presentation of additional information requested by EDA in support of the approved grant application.



Nevada state map with Eureka, Lander, White Pine County detail. Source: BEC files.

Project List

Client

U.S. Bureau of Reclamation

Services

- ❖ Biological

Project Highlights

- ❖ Desert Tortoise Presence/Absence Survey

Deliverables

- ❖ Biological Assessment
- ❖ Presence/Absence Survey Summary Report

Project Dates

- ❖ May - July 2016

Hoover Dam Fiber Optic Trail Project Biological Assessment

Boulder City, Nevada



Interstate 11 (I-11) through the desert.
Source: BEC files.

The Bureau of Reclamation proposed to install a new fiber optic cable as part of the Hoover Dam Fiber Optic Trail Project in Boulder City, Clark County, Nevada, on approximately 12.5 acres of land. The route for the new fiber optic cable was approximately 3.3 miles long, mainly following unpaved roads in open desert between Boulder City and a future communication tap at the new Interstate 11 Boulder City Bypass.

BEC Environmental, Inc. (BEC) was contracted by the U.S. Bureau of Reclamation to conduct a Mojave desert tortoise (*Gopherus agassizii*) presence/absence survey for the installation route to assess potential impacts of the project. BEC conducted the survey in accordance with standard U.S. Fish and Wildlife Service (USFWS) protocols.

Based on information collected during the presence/absence survey, BEC drafted a Biological Assessment for the Bureau of Reclamation to use as a basis for consultation with the U.S. Fish and Wildlife Service.



Utility poles on Colorado Street in Boulder City, Nevada.
Source: BEC files.

Project List

Client

Robert and Company

Contact

James E. Morgan, P.E.
2233 Park Avenue, Suite 205, Box 2B
Orange Park, FL, 32073
(904) 264-5230
j.morgan@robertco.com

Services

- ❖ Conducted permitting requirements research for the installation and operation of a military fuel stand
- ❖ Researched and provided copies of federal, state, Clark County, North Las Vegas, and Nellis Air Force Base permit applications
- ❖ Drafted environmental summaries to accompany engineering design submissions

Highlights

- ❖ Project deliverables were provided ahead of schedule and under budget
- ❖ 95% complete submittals were accepted as Ready to Advertise without additional edits

Deliverables

- ❖ Permit Matrix for federal, state, Clark County, North Las Vegas, and Nellis Air Force Base permits. Matrixes were provided at the 35%, 95%, and Ready to Advertise stages of design development
- ❖ Environmental Statement per Chapter 15, Section 3 of the U.S. Army Corps of Engineers Omaha District Design Guide
- ❖ A summary of Environmental Protection Specifications based on regulatory oversight

Project Dates

- ❖ August 2016 - October 2016

Nellis Air Force Base Fuel Line Installation

North Las Vegas, Nevada

Robert and Company was contracted by Nellis Air Force Base, through the U.S. Army Corps of Engineers, to create a design package to be advertised for construction of a new truck fill stand facility to support the F35A flying mission, and which would connect to the existing Type III Hydrant System on Nellis Air Force Base. Robert and Company contracted BEC to develop a permit matrix for the construction and operation of the fueling station being designed to be included in the design package. Additionally, BEC was tasked with drafting the environmental statement and Environmental Protection Specifications to be included as part of the design package. The matrix, environmental statement and Specifications were submitted with the design package at the 35%, 95%, and Ready to Advertise stages of development for review and comment.



Conceptual Site Plan with environmental survey limits for design package development.

Source: BEC files.

Drafting of the permit matrix, environmental statement, and Environmental Protection Specifications included coordination with federal, state, Clark County, North Las Vegas, and Nellis Air Force Base entities to ensure full compliance with all regulations were advertised to prospective bidders. The environmental statement was drafted in compliance with Chapter 15, Section 3 of the U.S. Army Corps of Engineers Omaha District Design Guide. The environmental statement included potential environmental compliance issues which could arise during construction, operation and monitoring and compliance testing requirements for the project, and Environmental Protection Specifications.

Client

Nye County

Services

❖ Grants

Project Highlights

❖ Development of preliminary applications

Deliverables

❖ Three final preliminary applications

Project Dates

❖ September - October 2016

Nye County Community Development Block Grant Preliminary Applications

Nye County, Nevada

BEC Environmental, Inc. (BEC) was contracted by Nye County to prepare three preliminary applications for Community Development Block Grant (CDBG) funds. Applications were prepared for blight and slum cleanup in Pahrump, Nevada, completion of a feasibility study for development of an industrial park in Pahrump, Nevada and to support revitalization of the Beatty Airport in Beatty, Nevada.

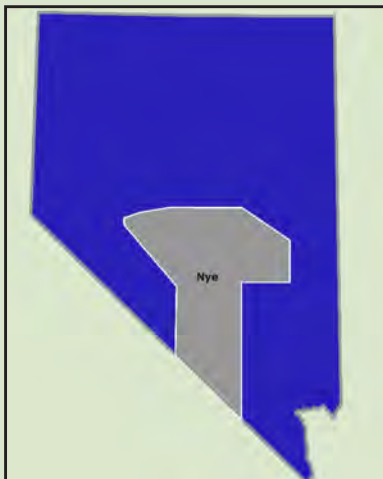


Beatty, Nevada.

Source: www.artandperception.com

BEC performed activities including:

- Preparation of the project approach, preliminary application, implementation schedule, and budget, developed in coordination with Nye County.
- Identification and coordination with beneficiaries.
- Identification of potential match and/or leverage funding requirements.
- Completion of the preliminary application in accordance with Nye County and CDBG application requirements.



Nevada state map with Nye County detail.

Source: BEC files.

Project List

Client

City of Las Vegas

Services

- ❖ NEPA

Project Highlights

- ❖ City Approval of Environmental Review Record
- ❖ SHPO Concurrence with Section 106 Consultation Findings

Deliverables

- ❖ Floodplain 8-Step Process Public Notification
- ❖ HUD Environmental Assessment
- ❖ SHPO Consultation Package
- ❖ Comment Request Letters
- ❖ Draft Public Notices

Project Dates

- ❖ July - November 2016

North Tenaya Apartments HUD Environmental Review

Las Vegas, Nevada

BEC Environmental, Inc. (BEC) was contracted by the City of Las Vegas to prepare a Housing and Urban Development (HUD) Environmental Review (ER) for a property located in Las Vegas, Nevada.



View from southeast across project area from northwest corner of parcel. Source: BEC files.

BEC conducted research on the property, provided public outreach documentation, and drafted an Environmental Assessment (EA) to detail the potential impacts of constructing an affordable senior housing complex on vacant land within the City of Las Vegas.

BEC also developed a Section 106 Consultation Package for submittal to the Nevada State Historic Preservation Office (SHPO). The package included maps of the proposed construction, delineation of the Area of Potential Effects, photographs depicting site conditions, and analysis of impacts on potential historic properties near the site.



View from west near southern boundary of project area. Source: BEC files.

Project List

Client

Nye County

Services

- ❖ Environmental Characterization

Project Highlights

- ❖ Site Survey
- ❖ Reuse and Disposal Evaluation

Deliverables

- ❖ Materials Inventory Report and Disposal Recommendations

Project Dates

- ❖ October - December 2016

Tonopah Airport Leased Parcels Environmental Inventory and Cleanup Recommendations

Tonopah, Nevada



Sulfuric acid containers at one of the buildings.

Source: BEC files.

BEC Environmental, Inc. (BEC) was contracted by Nye County to provide professional services for developing a Materials Inventory report of two Tonopah Airport Lease properties.

BEC conducted a site visit over the course of two days to fully assess each parcel and provided a complete inventory of materials remaining on site and an associated report of recommendations for addressing each environmental issue/condition identified. Options were provided for reuse, recycling, and disposal in accordance with regulatory requirements.



Rebar stored in stockpile area in southeast portion of fenced yard.
Source: BEC files.

Client

Pure Energy Minerals, Inc.

Services

- ❖ Permitting and Compliance Support
- ❖ Outreach

Project Highlights

- ❖ Technical Assistance

Deliverables

- ❖ Activity Reports
- ❖ Datasheets
- ❖ Meeting Agendas

Project Dates

- ❖ September 2014 - January 2017

Pure Energy Minerals, Inc. Facilities Permitting and Technical Assistance

Esmeralda County, Nevada

BEC Environmental, Inc. (BEC) was contracted by Pure Energy Minerals, Inc. (PURE) to provide professional services in support of an innovative lithium extraction project from geothermal brines.

BEC's activities include providing the following technical assistance as directed on an as-needed basis:

- Performing research for information on permitting requirements, service providers, supply chain information, etc.
- Providing introductions to and coordination/communication with governmental agencies, regulators, and stakeholders.
- Setting up and participating in/facilitating public outreach or stakeholder meetings.
- Other short-term activities as directed by PURE.

Project List

Client

City of North Las Vegas

Services

- ❖ Grants

Project Highlights

- ❖ Management of Choice Neighborhoods Initiative Planning grant

Deliverables

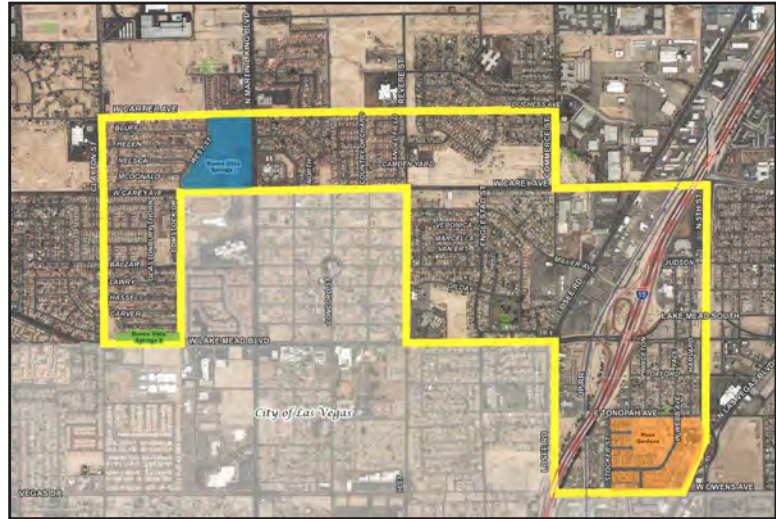
- ❖ Steering Committee meeting minutes
- ❖ Quarterly progress and financial reports
- ❖ Revised Community Survey
- ❖ Secondary data analyses
- ❖ Urban Core Transformation Plan Annotated Outline

Project Dates

- ❖ March 2015 - January 2017

City of North Las Vegas Choice Neighborhoods Initiative Planning Grant Management

North Las Vegas, Nevada

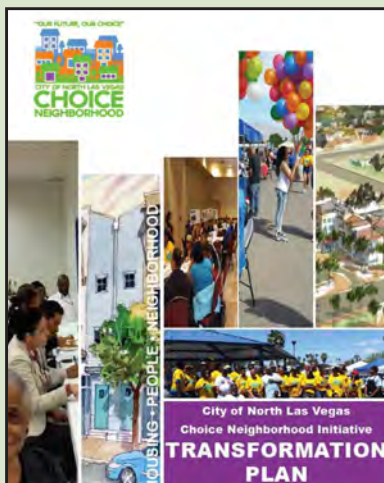


City of North Las Vegas Choice Neighborhood Focus Area.

Source: Google Maps/BEC files.

The City of North Las Vegas (CNLV) contracted BEC Environmental, Inc. (BEC) to provide professional services for assistance with management and development of the Choice Neighborhoods Initiative Planning grant and preparation of the Urban Core Transformation Plan. The purpose of the grant was to develop a Transformation Plan to address redevelopment of the Urban Core neighborhood in North Las Vegas, Nevada. The Transformation Plan identified redevelopment goals, objectives, funding mechanisms, and implementation plans for three sectors: Housing, Neighborhood, and People.

BEC provided project management and supported grant administration. BEC assisted with development of the Community Survey and completed secondary data analysis/narrative summary development for Neighborhood Sector data. BEC assisted CNLV with tracking cash and in-kind funding for the grant from over 30 partner agencies. The total grant budget, consisting of a combination of grant funds, cash match, in-kind match, and leveraged funds, totaled over \$2 million. As part of this effort, BEC contributed more than \$40,000 in in-kind support to facilitate the Transportation Plan's development.



Choice Neighborhood Initiative Transformation Plan Cover Page.

Source: BEC files.

Project List

Client

City of Reno

Services

❖ NEPA

Project Highlights

- ❖ Site Visit
- ❖ Section 106 (SHPO) Consultation
- ❖ Environmental Impact Analysis

Deliverables

- ❖ Historic Preservation/Section 106 Consultation Package
- ❖ Environmental Assessment
- ❖ Public Notices
- ❖ Request Release of Funds letter

Project Dates

- ❖ December 2016 - January 2017

Alpine Haven Apartments HUD Environmental Review

Sparks, Nevada

BEC Environmental, Inc. (BEC) was contracted to provide professional services for the development of a Housing and Urban Development (HUD) Environmental Review document for a low income housing project in Sparks, Nevada.



Historic property in Alpine Have Apartments Area of Potential Effect.
Source: BEC files.

BEC's primary roles in the project were:

- Conduct a site visit of the proposed housing project site to identify potential environmental issues and/or cultural impacts. The Area of Potential Effect for cultural and historical impacts was determined during this site visit.
- Complete a Section 106 State Historic Preservation Office (SHPO) Consultation Package in conjunction with the development of the Environmental Assessment (EA).
- Develop an EA in accordance with HUD 24 CFR Part 58 guidelines.



Alpine Haven Apartments view
from North.
Source: BEC files.

Client

Dominion Environmental Consultants, Inc.

Services

- ❖ Permitting and Compliance Support

Project Highlights

- ❖ Review and comment for response letter to environmental reports

Deliverables

- ❖ Signed response letter

Project Dates

- ❖ March 2017

Moapa Mulching Operations Environmental Compliance Support

Moapa Reservation, Nevada

BEC Environmental, Inc. (BEC) was contracted by Dominion Environmental Consultants, Inc. (Dominion) to provide professional services for as-needed technical support for the environmental reports entitled Evaluation of Conceptual Remedial Strategies for Ash Disposal/Remediation and Human and Ecological Risk Assessment.

BEC's primary role in the project was to review the response letter prepared by Dominion and incorporate comments based on BEC's understanding of the project and previous work conducted for the Moapa Band of Paiutes and the Nevada Division of Environmental Protection (NDEP).

Project List

Client

The Louis Berger Group, Inc.

Services

- ❖ Biological

Project Highlights

- ❖ Biological Opinion
- ❖ Compliance Monitoring
- ❖ Pre-Construction Desert Tortoise Clearance Surveys
- ❖ Worker Environmental Awareness Training

Deliverables

- ❖ Summary Field Notes

Project Dates

- ❖ December 2014 - April 2017



Desert Tortoise.
Source: BEC files.

I-11 Boulder City Bypass Phase 2 Desert Tortoise Monitoring

Boulder City, Nevada

The Louis Berger Group, Inc. contracted BEC Environmental, Inc. (BEC) to provide biological opinion and compliance support for the construction of Phase 2 of the Interstate 11 Boulder City Bypass Project. The 12-mile highway project connects the existing U.S. Highway 93/95 from Las Vegas directly to the O'Callaghan-Tillman Memorial Bridge.



Site construction activities.
Source: BEC files.

BEC was assisting in overseeing compliance with conservation and mitigation measures related to the threatened Mojave desert tortoise (*Gopherus agassizii*) during construction. BEC's support included:

- Assisting in removing tortoises from harm's way as needed.
- Conducting pre-construction clearance surveys.
- Conducting Worker Environmental Awareness Training.
- Ensuring construction activities remain in the cleared area and required mitigation measures are followed.
- Monitoring construction activity to ensure compliance with the biological opinion stipulations.
- Monitoring project access routes.
- Providing information regarding potential environmental issues to construction managers to allow them to maintain schedules and avoid issues.

Project List

Client

Client Name

Services

- ❖ Environmental Characterization

Project Highlights

- ❖ Document Development

Deliverables

- ❖ Phase I ESA Reports

Project Dates

- ❖ March - May 2017

Flyers Service Stations Phase I Environmental Site Assessments

California

BEC Environmental, Inc. (BEC) was contracted by Broadbent & Associates, Inc. (Broadbent) to assist with Phase I Environmental Site Assessment (ESA) report preparation, for Flyers Service Stations located across California.

BEC performed the local and regulatory record reviews, summarized interviews, and developed the draft Phase I reports for thirteen Flyers Service Stations. The draft reports were consistent with the American Society for Testing and Materials (ASTM) International Standard E1527-13: Standard Practice for Environmental Site Assessment - Phase I Environmental Site Assessment Process, and the United States Environmental Protection Agency (EPA) final rule contained within Code of Federal Regulations Volume 40 Part 312—Standards and Practices for All Appropriate Inquiries.



2012 aerial view of Flyers Service Station 23.
Source: EDR.

Project List

Client

Nevada Division of State Parks

Services

- ❖ NEPA
- ❖ Biological

Project Highlights

- ❖ Desert Tortoise Presence/Absence Survey

Deliverables

- ❖ Environmental Assessment
- ❖ Presence/Absence Survey Summary Report

Project Dates

- ❖ April 2017 - May 2017

Tule Springs Environmental Assessment

Las Vegas, Nevada

BEC Environmental, Inc. (BEC) was contracted to develop an Environmental Assessment (EA) for the proposed Tule Springs State Park project.



Desert Tortoise actively walking.
Source: BEC files.

BEC conducted a pedestrian survey of the 320-acre proposed State Park site in accordance with current U.S. Fish and Wildlife Service protocols. Locations of any identified protected species, or protected species habitat, were recorded.

BEC developed a preliminary draft EA based on National Park Service and National Environmental Policy Act standards for EAs, incorporating observed site conditions, readily available information for the site, and other information/reports provided by Nevada Division of State Parks.



Desert Tortoise in burrow.
Source: BEC files.

Project List

Client

Board of Regents Nevada System of Higher Education (NSHE)

Services

- ❖ Renewable Energy Support
- ❖ Outreach
- ❖ Grants

Project Highlights

- ❖ Stakeholder Identification
- ❖ Funding Identification

Deliverables

- ❖ Coordination
- ❖ Stakeholder Identification
- ❖ Funding Identification

Project Dates

- ❖ June 2014 - June 2017

Nevada EPSCoR Project Nexus External Engagement Team

Nevada

BEC Environmental, Inc. (BEC) was contracted by Board of Regents Nevada System of Higher Education (NSHE) to provide professional services as part of the Nexus External Engagement Team, comprised of members from the Desert Research Institute (DRI) and NSHE.



Nevada EPSCoR Nexus project diagram.
Source: Nevada EPSCoR.

The Nexus project connects innovative research with industry to achieve water efficient and environmentally friendly solar projects throughout Nevada.

BEC's activities included workflow coordination and schedule milestones, stakeholder identification and meeting facilitation, identification of funding opportunities, and additional tasks as directed.

Project List

Client

Unicon Contracting

Services

- ❖ Biological
- ❖ Permitting and Compliance Support

Project Highlights

- ❖ Botany Survey
- ❖ Noxious Weed Management Plan

Deliverables

- ❖ Noxious Weed Management Plan

Project Dates

- ❖ June 2017

Nevada Department of Transportation Noxious Weed Survey and Management Plan

Clark County, Nevada

BEC Environmental, Inc. (BEC) was contracted by Unicon Contracting to provide professional services for the development of a Noxious Weed Management Plan in support of the Nevada Department of Transportation (NDOT) Americans with Disabilities Act (ADA) Remediation project.



US 95 South and Valley View Boulevard Intersection.
Source: BEC files.

Plan development included a Noxious Weed survey of twenty intersections along I-15 and US Route 95 throughout Clark County.

BEC's primary roles in the project were to:

- Conduct a pre-construction survey of each remediation site at the 20 intersections identified in the Plan Set.
- Draft an NDOT-approved Noxious Weed Management Plan including a summary of existing conditions as well as mitigation measures to be taken by Unicon to prevent the spread of noxious weeds.



US 95 South Entrance.
Source: BEC files.

Project List

Client

City of Las Vegas

Services

- ❖ NEPA

Project Highlights

- ❖ City Approval of Environmental Review Record
- ❖ SHPO Concurrence with Section 106 Consultation Findings

Deliverables

- ❖ HUD Environmental Assessment
- ❖ SHPO Consultation Package
- ❖ Draft Public Notice
- ❖ Comment Request Letters

Project Dates

- ❖ March - July 2017



Apartment building front.
Source: BEC files.

City Impact Center Senior Housing HUD Environmental Review

Las Vegas, Nevada

BEC Environmental, Inc (BEC) was contracted by the City of Las Vegas to prepare an Environmental Review, including an Environmental Assessment and Nevada State Historic Preservation Office (SHPO) Consultation Package for the proposed City Impact Center Senior Housing project. The City of Las Vegas proposed replacing the existing senior-living apartment building with a new four-story development with 66 units, each with Energy Star-rated appliances, reversible ceiling fans, vinyl wood flooring, wood cabinetry, and other amenities.

BEC conducted the review in accordance with the National Environmental Policy Act (NEPA) and U.S. Housing and Urban Development (HUD) regulations 24 CFR 50.4, 58.5, and 58.6. Based on BEC's review of HUD regulations and the project description, the level of environmental review was determined to be an Environmental Assessment. The environmental review covered Air Quality, Environmental Justice, Explosive and Flammable Concerns, Flood Insurance, Floodplain Management, Historic Preservation, Noise Abatement and Control, Site Contamination, Wetlands Protection, Wild and Scenic Rivers, Airport Hazards, Farmlands Protection, Coastal Barrier Resources, Coastal Zone Management, and Sole Source Aquifers. The environmental review also included multiple development, socioeconomic, community facilities and services, and natural features assessment factors.

BEC professionals compiled and reviewed available information on each element, assessed the potential for impacts to the element, identified mitigation where applicable, and documented the review.

As part of the environmental review process, BEC drafted the Nevada State Historic Preservation Office (SHPO) Section 106 Consultation Package, which the City submitted to SHPO for concurrence.

BEC was also responsible for drafting comment and consultation request letters, public notices, and the HUD funding request form, which were provided to the City for review and distribution.

An Environmental Assessment was developed for the City's review. An Environmental Review Record was compiled which contained the data and documents supporting the determinations made in the Assessment.

Project List

Client

Mineral County

Services

- ❖ Environmental Characterization
- ❖ NEPA

Project Highlights

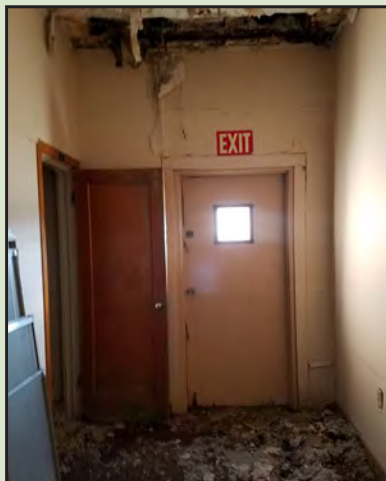
- ❖ Combined site visit for Nevada SHPO, EA, and Phase I ESA
- ❖ HUD approval of Environmental Review Record
- ❖ SHPO Concurrence with Section 106 Consultation Findings

Deliverables

- ❖ 8-Step Floodplain Process
- ❖ Draft Public Notices (2)
- ❖ HUD EAs (2)
- ❖ Limited Asbestos Survey Reports (2)
- ❖ Phase I ESAs (2)
- ❖ SHPO Consultation Packages (2)

Project Dates

- ❖ April - August 2017



Damaged interior of Sierra Pacific building.

Source: BEC files.

Patriot's Plaza and the Sierra Pacific Building HUD Environmental Reviews, Phase I Environmental Site Assessments, and Asbestos Surveys

Hawthorne, Nevada



Damaged interior of Patriot's Plaza garage.

Source: BEC files.

BEC Environmental, Inc. (BEC) was contracted by Mineral County to conduct Environmental Site Assessments (ESAs), Environmental Reviews, and Asbestos Surveys for the Patriot's Plaza and the Sierra Pacific Building.

BEC prepared Phase I ESAs for both properties based on site reconnaissance, regulatory records review, environmental database review, and historical sources review.

As part of the Housing and Urban Development (HUD) Environmental Review process, BEC developed Environmental Assessments and Nevada State Historic Preservation Office (SHPO) Section 106 consultation packages for each building. Information obtained during the Phase I ESA, Nevada SHPO checklist development, and site inspections were compiled into one HUD Environmental Assessment (EA) for each site, prepared in accordance with Title 24 of the Code of Federal Regulations (CFR) Part 58 guidelines, using HUD-approved templates. The Sierra Pacific Building was within Federal Emergency Management Agency (FEMA) Special Flood Hazard Area (SFHA) Zone AE (1% chance of annual flood). Therefore, BEC also developed the 8-Step Process for Development on a Floodplain for this property as part of the Environmental Review.

BEC assessed the presence of asbestos-containing materials (ACMs) in preparation for planned demolition activities at each property. BEC prepared a summary report for each property, including a discussion of findings, site vicinity map, site map, and conclusions, as appropriate. The report summarized the findings, conclusions, and recommendations and was signed by a Nevada OSHA Licensed Asbestos Building Inspector.

Project List

Client

Tetra Tech, Inc.

Services

- ❖ Environmental Characterization

Project Highlights

- ❖ Ambient air sampling for asbestos
- ❖ Equipment maintenance and operation troubleshooting

Deliverables

- ❖ Chain of Custody Reports for each cartridge sample delivery
- ❖ Site visit and sample setup and collection logs

Project Dates

- ❖ July - August 2017

Boulder City Bypass Ambient Air Sampling for Asbestos

Boulder City, Nevada



Ambient air sampling locations.
Source: Google Earth/BEC files.

BEC Environmental, Inc. (BEC) was contracted by Tetra Tech, Inc. to conduct ambient air sampling for asbestos in support of the I-11 Boulder City Bypass Project. Ambient air samples were collected from ten air sampling stations in the vicinity of the Bypass project.

The day prior to commencement of ambient air sampling, each sample equipment container (containing a car battery, pump, and air hose) was taken to its specified ambient air sampling station. Each programmable air pump was programmed in the field to run for five days. Once programmed, the pump was placed within its fenced and locked station. An air hose connected the pump and an air sampling cartridge to promote ambient air flow through the air sampling cartridge. The hose with air sampling cartridge was taped to a vertical pole, placing the air sampling cartridge intake about five feet above ground surface.

Operational verification visits were conducted the day the pump was scheduled to begin operation and one other day, chosen randomly. Site conditions, air flow rates, and weather conditions were recorded. Air sample cartridges and equipment containers were collected at the end of the air sampling period. The cartridges were removed from the air hose, labeled, and sealed in individual plastic bags. The air sampling cartridges were delivered to a laboratory certified to conduct the appropriate asbestos fiber analysis.



Air sampling equipment.
Source: BEC files.

Project List

Client

American Civil Constructors
Southwest (ACC)

Services

- ❖ Biological

Project Highlights

- ❖ Construction monitoring for burrowing owls and paleontological resources

Deliverables

- ❖ Daily Activity Reports

Project Dates

- ❖ June 2017 - September 2017

City of Las Vegas Brent Lane Drainage System and Trail Project Biological and Paleontological Support

Las Vegas, Nevada



Owl observed inside a burrow on site.
Source: BEC files.

BEC Environmental, Inc. (BEC) was contracted by American Civil Constructors Southwest (ACC) to conduct monitoring for burrowing owl (*Athene cunicularia*) and paleontological resources during the construction of the City of Las Vegas Brent Lane Drainage System and Trail Project.

BEC's role in the project was to conduct monitoring during construction activity to identify potential burrowing owl interactions and unearthed paleontological resources. Sightings of burrowing owls were reported to the site supervisor and project manager. Unearthed paleontological resources were catalogued and moved out of harm's way.



Owl observed on site.
Source: BEC files.

Project List

Client

Private Consultant

Services

- ❖ Environmental Characterization

Project Highlights

- ❖ Phase I completed to ASTM E-1527 Standard

Deliverables

- ❖ Two Phase I Environmental Site Assessments

Project Dates

- ❖ September 2017 - October 2017

Smith's Grocery Phase I Environmental Site Assessments Las Vegas, Nevada



Exterior of one of the Smith's grocery sites.
Source: BEC files.

BEC Environmental, Inc. (BEC) was subcontracted to perform Phase I Environmental Site Assessments of two Smith's grocery stores in Las Vegas. BEC conducted the site visit, as well as a review of regulatory records, environmental databases, historical city directories and historical aerial photos. BEC prepared the reports of the findings (one report for each site) and submitted the deliverables on time and within budget. All work was performed in accordance with current ASTM standard E 1527-05 for Phase I Environmental Site Assessments.



Interior of one of the Smith's grocery sites.
Source: BEC files.

Project List

Client

State of Nevada

Services

- ❖ Grants
- ❖ Government Liaison and Relations

Project Highlights

- ❖ Over \$1.2 Million in successful grant applications
- ❖ Over 30 government units advised on federal funding opportunities and sustainable development strategies

Deliverables

- ❖ Quarterly reports
- ❖ Funding opportunity assessments
- ❖ Grant applications

Project Dates

- ❖ July 2013 - October 2017

State of Nevada Federal Grant Development and Administration

Nevada

The State of Nevada contracted BEC Environmental, Inc. (BEC) to provide grant writing and administration services to government units across Nevada. This contract enabled State of Nevada agencies, the Nevada System of Higher Education, and local governments to contract BEC without going through an open bid process. BEC was one of a handful of competitively-selected, approved vendors to provide grant services through this State contracting mechanism.

BEC worked with government units across the State to promote collaboration between agencies and local governments to increase the amount of federal funding awarded to Nevada. BEC coordinated with government representatives, advised stakeholders on funding programs, developed funding opportunity assessments, and prepared grant applications. BEC utilized team member technical expertise to advance community and economic development across the state by building coalitions and developing innovative projects focused on environmental, social, and fiscal sustainability.

Under this contract mechanism, BEC prepared successful grant applications resulting in more than \$1.2 Million in federal funding awarded to Nevada.



Nevada state map with county detail.

Source: BEC files.

Project List

Client

Town of Pahrump

Services

- ❖ Grants
- ❖ Biological
- ❖ NEPA

Project Highlights

- ❖ Grant research and review
- ❖ Successful grant application
- ❖ Desert Tortoise Presence/Absence Survey
- ❖ EA
- ❖ SHPO coordination

Deliverables

- ❖ Grant Application
- ❖ SHPO Section 106 Package
- ❖ NEPA EA
- ❖ Presence/Absence Survey Summary Report

Project Dates

- ❖ May 2017 - October 2017

Kellogg Park Nevada Land and Water Conservation Fund Grant Application and Environmental Assessment

Pahrump, Nevada



Kellogg Park project areas.
Source: BEC files.

BEC Environmental, Inc. (BEC) was contracted by the Town of Pahrump (Town) to assist in preparing a Nevada Land and Water Conservation Fund (LWCF) Grant Application to help fund the development of Kellogg Park.

BEC performed the necessary research for the grant application; drafted Letters of Support for governmental entities and other organizations; and incorporated the necessary mapping documentation for the grant application.

BEC coordinated with the Nevada State Historic Preservation Office (SHPO) to complete a Section 106 Consultation of the National Historic Preservation Act (NHPA) and performed a site visit to assess the project.

BEC also performed a desert tortoise presence/absence survey on the 40-acres project parcel.

Subsequent to the awarding of over \$200,000 in grant funding by the Nevada Division of State Parks, BEC drafted a National Environmental Policy Act (NEPA) Environmental Assessment (EA) to analyze the direct, indirect and cumulative impacts the development project has on the surrounding environment.



Vegetation observed during Desert Tortoise Survey for Kellogg Park.
Source: BEC files.

Project List

Client

City of Reno, Community
Development Center

Services

- ❖ NEPA

Project Highlights

- ❖ City Approval of Environmental Review Record

Deliverables

- ❖ Early Notice and Public Review of a Proposed Activity in a 100-Year Floodplain
- ❖ Final Notice and Public Explanation of a Proposed Activity in a 100-Year Floodplain
- ❖ HUD Environmental Assessment
- ❖ Notice of Intent to Request Release of Funds public notice letter
- ❖ SHPO Consultation Package
- ❖ Tribal Consultation and Interested Party Comment Request Letters

Project Dates

- ❖ April - October 2017



Nevada state map with Washoe
County detail.
Source: BEC files.

Steamboat at the Summit HUD Environmental Review

Reno, Nevada

BEC Environmental, Inc. (BEC) was contracted by City of Reno, Nevada, to provide professional services for the development of a Housing and Urban Development (HUD) Environmental Review document for the Steamboat at the Summit Project in Reno, Nevada.

BEC conducted the review in accordance with the National Environmental Policy Act (NEPA) and U.S. Housing and Urban Development (HUD) regulations 24 CFR 50.4, 58.5, and 58.6. Based on BEC's review of HUD regulations and the project description, the level of environmental review was determined to be an Environmental Assessment. The environmental review covered Air Quality, Environmental Justice, Explosive and Flammable Concerns, Flood Insurance, Floodplain Management, Historic Preservation, Noise Abatement and Control, Site Contamination, Wetlands Protection, Wild and Scenic Rivers, Airport Hazards, Farmlands Protection, Coastal Barrier Resources, Coastal Zone Management, and Sole Source Aquifers. The environmental review also included multiple development, socioeconomic, community facilities and services, and natural features assessment factors.

BEC professionals compiled and reviewed available information on each of the elements, assessed the potential for impacts to those elements, identified required mitigation where applicable, and documented the review.

As part of the environmental review process, BEC drafted the Nevada State Historic Preservation Office (SHPO) Section 106 Consultation Package, which the City submitted to SHPO for a concurrence determination.

BEC was also responsible for drafting consultation request letters, public notices, and HUD funding request forms.

An Environmental Assessment was developed for the City's review. An Environmental Review Record was compiled which contained the data and documents supporting the determinations made in the Assessment.

Client

City of Las Vegas

Services

- ❖ Environmental Site Characterization
- ❖ NEPA

Project Highlights

- ❖ Grant funding approval for redevelopment of five properties, including a historic property
- ❖ City Approval of Environmental Review Record
- ❖ SHPO Concurrence with Section 106 Consultation Findings
- ❖ Two Phase I ESAs

Deliverables

- ❖ 310 Foremaster Lane Phase I ESA
- ❖ City Properties Phase I ESA
- ❖ Architectural Resources Report
- ❖ Comment Request Letters
- ❖ Draft Public Notice
- ❖ HUD Environmental Assessment
- ❖ SHPO Consultation Package
- ❖ Tribal Consultation Letters

Project Dates

- ❖ August - November 2017



Water damage and mold.

Source: BEC files.

Corridor of Hope HUD Environmental Review and Phase I Environmental Site Assessments

Las Vegas, Nevada

The City of Las Vegas contracted BEC Environmental, Inc. (BEC) to perform an environmental evaluation of five properties in the Corridor of Hope, an area designated by the City as a one-stop homeless services complex. The properties were intended for demolition and redevelopment to create permanent homeless service facilities. Redevelopment of the five sites was to be partially funded with Community Development Block Grant Funds.

BEC conducted two Phase I Environmental Site Assessments (ESAs) to identify the presence or likely presence of hazardous substances or petroleum products at four City-owned properties (combined Phase I) and one privately-owned property in advance of transfer to the City.

A Section 106 Consultation Package was submitted to the Nevada State Historic Preservation Office (SHPO). The package included maps of the proposed demolition, delineation of the Area of Potential Effects, photographs depicting site conditions, and analysis of impacts on potential historic properties, including one of the subject properties that had distinct architectural characteristics and was determined to be eligible for listing on the National Register of Historic Places.

BEC then developed an Environmental Assessment in accordance with the National Environmental Policy Act (NEPA) and U.S. Housing and Urban Development (HUD) regulations 24 CFR 50.4, 58.5, and 58.6. BEC utilized the results of the SHPO Consultation and both Phase I ESAs in combination with resources, documents, and data collected from entities such as the U.S. Fish and Wildlife Service, Federal Emergency Management Agency, U.S. Department of Agriculture, National Park Service, U.S. Census Bureau, Nevada Division of Environmental Protection, Nevada Department of Wildlife, Nevada Natural Heritage Program, and Nevada Department of Transportation to evaluate potential impacts and draft the NEPA document. As part of the Environmental Review package, BEC also drafted comment and consultation request letters, tribal outreach letters, public notices, and the HUD Request for Release of Funds forms, which were provided to the City for review and distribution.

Project List

Client

Nye County

Services

- ❖ Grants

Project Highlights

- ❖ Grant research and review
- ❖ Grant writing

Deliverables

- ❖ Brownfields Coalition Assessment Grant application
- ❖ Assistance to Firefighters Grant application

Project Dates

- ❖ September 2013 - December 2017

Nye County Grants Support

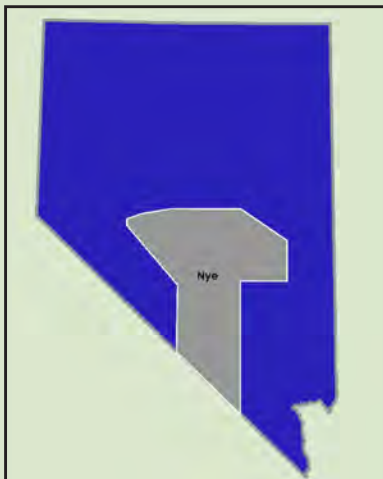
Nye County, Nevada

Nye County contracted BEC Environmental, Inc. (BEC) to provide technical assistance and grant services in support of Nye County projects and initiatives. BEC reviewed and provided recommendations on available grants to assess the potential applicability of individual funding mechanisms to County-identified projects and needs.

BEC assisted Nye County Commissioners with the preparation of grant requests to the U.S. Environmental Protection Agency (EPA) and the Federal Emergency Management Agency (FEMA).

Applications prepared by BEC garnered over \$1,200,000 for Nye County, in the form of two separate successful grant applications. Successful applications prepared by BEC include a:

- Brownfields Coalition Assessment Grant in the amount of \$600,000 to continue the Rural Desert Southwest Brownfields Coalition (RDSBC) site identification, assessment, and cleanup/reuse planning activities started under a previous Brownfields Coalition Assessment grant;
- FEMA Assistance to Firefighters Grant in the amount of \$603,013 to purchase self-contained breathing apparatuses and other equipment to replace aging equipment county-wide.



Nevada state map with Nye County detail.

Source: BEC files.

Project List

Client

The Whiting-Turner Contracting Company

Services

- ❖ Environmental Characterization

Project Highlights

- ❖ Identification of potential hazards
- ❖ Use of site material safety data sheets
- ❖ Proactive client engagement
- ❖ Site cleanup activities successfully concluded

Deliverables

- ❖ Clean up Recommendations
- ❖ Report of Observations

Project Dates

- ❖ November - December 2017

3230 West Desert Inn Storage Yard Environmental Site Characterization

Las Vegas, Nevada



Storage yard site conditions.

Source: BEC files.

BEC Environmental, Inc. (BEC) was contracted by Whiting-Turner Contracting Company (Whiting-turner) to provided professional services for cleanup recommendations along with a report of cleanup activities associated with a fire which took place in a storage yard being leased by Whiting-Turner located at 3230 W. Desert Inn Road, Suite 170, in Las Vegas, Nevada. BEC performed a site visit and provided recommendations relevant to the handling and disposal of centrifugally cast glass-fiber-reinforced plastic pipes based on unsaturated polyester or vinyl ester resins (HOBAS) along with high density polyethylene (HDPE) pipes that were damaged in the fire. BEC's investigation into the fire-damaged materials showed that the pipes did not meet Federal or State definitions of hazardous waste and could be disposed as non-hazardous solid waste.

BEC performed a secondary site visit after preliminary cleanup activities and noted surface remnants of fiberglass and associated ash. BEC documented site conditions and provided recommendations and assistants in the removal and disposal of remnant debris.



Storage yard site conditions.

Source: BEC files.

Project List

Client

Wulfenstein Construction Company, Inc.

Services

- ❖ Environmental Characterization

Project Highlights

- ❖ Five Phase I ESAs in multiple locations completed in three weeks

Deliverables

- ❖ Gamebird Gravel Pit Phase I ESA
- ❖ BLM Gravel Pit Phase I ESA
- ❖ Mesquite Gravel Pit Phase I ESA
- ❖ Oyster Street Shop Phase I ESA
- ❖ Tonopah Gravel Pit Phase I ESA

Project Dates

- ❖ December 2017



Red asphalt hopper observed in central portion of site.
Source: BEC files.

Gravel Pit Operations Phase I Environmental Site Assessments

Pahrump and Tonopah, Nevada



Gravel pit.
Source: BEC files.

BEC Environmental, Inc. (BEC) was contracted by Wulfenstein Construction Company, Inc. to perform Phase I Environmental Site Assessments (ESAs) for: Tonopah Gravel Pit (Tonopah, Nevada), Gamebird Gravel Pit, Mesquite Gravel Pit, BLM Gravel Pit, and Oyster Street Shop (Pahrump, Nevada).

BEC reviewed lists compiled by federal and state agencies that identified sites known or suspected to be contaminated, and facilities which handle hazardous substances or wastes. A computer database firm was used to provide listings of sites with the ASTM standard search radius which included information from, but was not limited to, U.S. Environmental Protection Agency-designated Superfund sites, SEMS sites, RCRA facilities, and Nevada Division of Environmental Protection lists of Corrective Actions cases, leaking underground storage tank cases, and registered UST owners. BEC reviewed geologic and hydrogeologic information to assess soil characteristics and ground water occurrence, relative depth, quality, and uses. BEC also reviewed historical aerial photography; U.S. Geological Survey maps; and building department, NDEP, ownership, zoning/land use, and any prior assessment usage records.

BEC performed field visits to each site paying particular attention to the possible presence of unauthorized waste disposal, Underground Storage Tanks (USTs), 55-gallon drums, sumps and clarifiers, wells, septic systems, oil-water separators and leachfields, and PCB-containing electrical transformers. Surrounding land use was evaluated for industrial and/or commercial activity and chemical usage, and for the presence of nearby facilities with readily identifiable USTs.

BEC summarized the results of the records review, interviews, and site visits in five Phase I reports.

Client

Nevada Housing Division

Services

- ❖ NEPA

Project Highlights

- ❖ Division Approval of Environmental Review Record

Deliverables

- ❖ Categorical Exclusion Subject to the laws and authorities in 24 CFR Section 58.5

Project Dates

- ❖ December 2017 - January 2018

Rural Nevada Development Corporation Program Environmental Review

City, Nevada

BEC Environmental, Inc. (BEC) evaluated the applicability of U.S. Housing and Urban Development (HUD) environmental review regulations for a Rural Nevada Development Corporation (RNDC) Rehabilitation and Down Payment Assistance Program, under an environmental review Master Services Agreement with the Nevada Housing Division.

BEC conducted the review in accordance with the National Environmental Policy Act (NEPA) and HUD regulations 24 CFR 50.4, 58.5, and 58.6. BEC determined the project was a Categorical Exclusion Subject to the laws and authorities in 24 CFR Section 58.5 (CEST).

BEC recommended the Nevada Housing Division forward a conditional funding availability letter to the RNDC, stating funding would be provided on a case by case basis pending an environmental review of specific project funding requests.

Project List

Client

Jacobs Engineering Group Inc.

Services

- ❖ Environmental Characterization

Project Highlights

- ❖ Environmental cleanup oversight
- ❖ Intra-agency coordination
- ❖ Site Closure/No Further Action Determination

Deliverables

- ❖ Additional Site Characterization Summary Report and Closure Plan
- ❖ Site Characterization Work Plan

Project Dates

- ❖ July 2017 - January 2018

Regional Transportation Commission of Southern Nevada Environmental Oversight

Clark County, Nevada



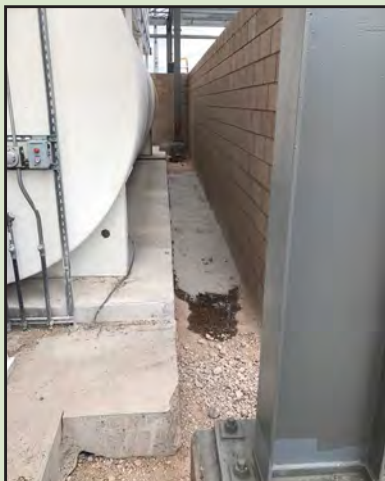
Site cleanup and oversight activities.
Source: BEC files.

BEC Environmental, Inc. (BEC) was contracted by Jacobs Engineering Group Inc. (Jacobs) on behalf of the Regional Transportation Commission of Southern Nevada (RTC) to review cleanup activities and prepare Additional Site Characterization Work Plan relating to a diesel fuel release at the RTC facility located at 5156 West Sunset Road in Las Vegas. The work plan was prepared in a response form letter from Nevada Division of Environmental Protection (NDEP) to RTC outlining steps needed to complete site characterization before a remediation system was implemented.

BEC performed a site visit to obtain additional information regarding site characterization, spill release, excavation depth, and other site conditions.

Based upon findings, BEC developed a work plan addressing NDEP's endpoint goal and provided guidance for site characterization and cleanup decisions.

Upon completion of cleanup activities, BEC prepared a Summary Report and requested closure for the site from NDEP. NDEP concurred with BEC's recommendation and subsequently issued a No Further Action Determination letter for the site.



Spilled petroleum product.
Source: BEC files.

Client

Nevada Housing Division

Services

- ❖ NEPA

Project Highlights

- ❖ Division Approval of Environmental Review Record
- ❖ SHPO Concurrence with Section 106 Consultation Findings

Deliverables

- ❖ Categorical Exclusion Subject to the laws and authorities in 24 CFR Section 58.5
- ❖ SHPO Section 106 Consultation Package

Project Dates

- ❖ December 2017 - February 2018



Woodlands Apartments.

Source: BEC files.

Woodlands Apartments Rehabilitation Environmental Review

Elko, Nevada

BEC Environmental, Inc. (BEC) evaluated the potential environmental impacts of a rehabilitation project for the Woodlands Apartments in Elko, Nevada, under an environmental review Master Services Agreement with the Nevada Housing Division.

BEC conducted the review in accordance with the National Environmental Policy Act (NEPA) and U.S. Housing and Urban Development (HUD) regulations 24 CFR 50.4, 58.5, and 58.6. Based on BEC's review of HUD regulations and the project description, the level of environmental review was determined to be a HUD Categorical Exclusion Subject to the laws and authorities in 24 CFR Section 58.5 (CEST). The environmental review covered Air Quality, Environmental Justice, Explosive and Flammable Concerns, Flood Insurance, Floodplain Management, Historic Preservation, Noise Abatement and Control, Site Contamination, Wetlands Protection, Wild and Scenic Rivers, Airport Hazards, Farmlands Protection, Coastal Barrier Resources, Coastal Zone Management, and Sole Source Aquifers.

BEC professionals compiled and reviewed available information on each of the required elements, assessed the potential for impacts to those elements, identified required mitigation where applicable, and documented the review.

As part of the environmental review process, BEC drafted the Nevada State Historic Preservation Office (SHPO) Section 106 Consultation Package, which the Division submitted to SHPO for a concurrence determination.

BEC was also responsible for drafting comment and consultation request letters, public notices, and HUD funding request forms.

Documentation of the potential impacts was summarized using HUD templates and an Environmental Review Record was compiled and submitted.

Client

Nevada Housing Division

Services

- ❖ NEPA

Project Highlights

- ❖ Division Approval of Environmental Review Record
- ❖ SHPO Concurrence with Section 106 Consultation Findings

Deliverables

- ❖ Categorical Exclusion Subject to the laws and authorities in 24 CFR Section 58.5
- ❖ SHPO Section 106 Consultation Package

Project Dates

- ❖ December 2017 - February 2018



Plaza at 4th Street.
Source: BEC files.

Plaza at 4th Street Rehabilitation Environmental Review

Reno, Nevada

BEC Environmental, Inc. (BEC) evaluated the potential environmental impacts of a rehabilitation project for the Plaza at 4th Street in Reno, Nevada, under an environmental review Master Services Agreement with the Nevada Housing Division.

BEC conducted the review in accordance with the National Environmental Policy Act (NEPA) and U.S. Housing and Urban Development (HUD) regulations 24 CFR 50.4, 58.5, and 58.6. Based on BEC's review of HUD regulations and the project description, the level of environmental review was determined to be a HUD Categorical Exclusion Subject to the laws and authorities in 24 CFR Section 58.5 (CEST). The environmental review covered Air Quality, Environmental Justice, Explosive and Flammable Concerns, Flood Insurance, Floodplain Management, Historic Preservation, Noise Abatement and Control, Site Contamination, Wetlands Protection, Wild and Scenic Rivers, Airport Hazards, Farmlands Protection, Coastal Barrier Resources, Coastal Zone Management, and Sole Source Aquifers.

BEC professionals compiled and reviewed available information on each of the required elements, assessed the potential for impacts to those elements, identified required mitigation where applicable, and documented the review.

As part of the environmental review process, BEC drafted the Nevada State Historic Preservation Office (SHPO) Section 106 Consultation Package, which the Division submitted to SHPO for a concurrence determination.

BEC was also responsible for drafting consultation request letters, public notices, and HUD funding request forms.

Documentation of the potential impacts was summarized using HUD templates and an Environmental Review Record was compiled and submitted.

Client

City of Reno, Community
Development Center

Services

- ❖ NEPA

Project Highlights

- ❖ City Approval of Environmental Review Record

Deliverables

- ❖ Environmental Assessment
- ❖ SHPO Section 106 Consultation Package

Project Dates

- ❖ December 2017 - February 2018



Nevada state map with Washoe
County detail.
Source: BEC files.

Sky Mountain Apartments Environmental Assessment Reno, Nevada

BEC Environmental, Inc. (BEC) was contracted by City of Reno, Nevada, to provide professional services for the development of a Housing and Urban Development (HUD) Environmental Review for the Sky Mountain Apartments project in Reno, Nevada.

BEC conducted the review in accordance with the National Environmental Policy Act (NEPA) and U.S. Housing and Urban Development (HUD) regulations 24 CFR 50.4, 58.5, and 58.6. Based on BEC's review of HUD regulations and the project description, the level of environmental review was determined to be an Environmental Assessment. The environmental review covered Air Quality, Environmental Justice, Explosive and Flammable Concerns, Flood Insurance, Floodplain Management, Historic Preservation, Noise Abatement and Control, Site Contamination, Wetlands Protection, Wild and Scenic Rivers, Airport Hazards, Farmlands Protection, Coastal Barrier Resources, Coastal Zone Management, and Sole Source Aquifers. The environmental review also included multiple development, socioeconomic, community facilities and services, and natural features assessment factors.

BEC professionals compiled and reviewed available information on each of the elements, assessed the potential for impacts to those elements, identified required mitigation where applicable, and documented the review.

As part of the environmental review process, BEC drafted the Nevada State Historic Preservation Office (SHPO) Section 106 Consultation Package, which the City submitted to SHPO for a concurrence determination.

BEC was also responsible for drafting consultation request letters, public notices, and HUD funding request forms.

An Environmental Assessment was developed for the City's review. An Environmental Review Record was compiled which contained the data and documents supporting the determinations made in the Assessment.

Project List

Client

Nye County

Services

- ❖ Grants

Project Highlights

- ❖ Grant research and review
- ❖ Grant writing

Deliverables

- ❖ Assistance to Firefighters Grant application

Project Dates

- ❖ January - February 2018

Nye County FY2017 Assistance to Firefighters Grant Application

Nye County, Nevada

Nye County contracted BEC Environmental, Inc. (BEC) to provide grant preparation services to support Nye County Emergency Management obtain funding under the Fiscal Year (FY) 2017 Federal Emergency Management Agency (FEMA) Assistance to Firefighters Grant (AFG).

BEC reviewed the AFG Notice of Funding Opportunity and participated in FEMA-hosted grant webinars to understand the application requirements and agency funding objectives in order to make recommendations on the viability of success for different projects proposed by Nye County Emergency Management.

Based on coordination with Nye County Emergency Management, BEC prepared a grant application for the purchase of extrication equipment in the amount of \$310,546. The requested extrication equipment would be stocked in ten department vehicles strategically located throughout the 18,000 square mile territory in order to improve emergency response capability.

Project List

Client

Nevada Division of Environmental Protection, Brownfields Program

Contact

David Friedman
Brownfields Program Coordinator
901 South Stewart Avenue, Ste. 4001
Carson City, Nevada
(775) 687-9385
dfriedman@ndep.nv.gov

Services

- ❖ Environmental Site Characterization
- ❖ Brownfields

Highlights

- ❖ Phase I completed to ASTM E1527-13 Standard
- ❖ Facilitated property transfer to Town of Pahrump

Deliverables

- ❖ Phase I Environmental Site Assessment

Project Dates

- ❖ December 2017 - February 2018



Lakeview Executive Golf Course building.
Source: BEC files.

Lakeview Executive Golf Course Phase I Environmental Site Assessment

Pahrump, Nye County, Nevada

BEC Environmental, Inc. (BEC) was contracted by Nevada Division of Environmental Protection (NDEP) Nevada Brownfields Program (NBP), on behalf of Nye County, to perform a Phase I Environmental Site Assessment (ESA) of the Lakeview Executive Golf Course in Pahrump, Nevada.



Pond at Lakeview Executive Golf Course.
Source: BEC files.

BEC reviewed lists compiled by federal and state agencies that identified sites known or suspected to be contaminated, and facilities which handle hazardous substances or wastes. A computer database firm was used to provide listings of sites within the ASTM standard search radius which included information regarding, but not limited to, U.S. Environmental Protection Agency (EPA)-designated Superfund sites, Superfund Enterprise Management Systems (SEMS) sites, Resource Conservation and Recovery Act (RCRA) facilities, and NDEP lists of Corrective Actions cases, leaking underground storage tank (UST) cases, and registered UST owners. BEC reviewed geologic and hydrogeologic information to assess soil characteristics and ground water occurrence, relative depth, quality, and uses. BEC also reviewed historical aerial photography; U.S. Geological Survey maps; and building department, NDEP, ownership, zoning/land use, and any prior assessment usage records.

BEC performed a field visits to the site paying particular attention to the possible presence of unauthorized waste disposal, USTs, 55-gallon drums, sumps and clarifiers, wells, septic systems, oil-water separators and leachfields, and polychlorinated biphenyls (PCB)-containing electrical transformers. Surrounding land use was evaluated for industrial and/or commercial activity and chemical usage, and for the presence of nearby facilities with readily identifiable USTs.

Project List

Client

Converse Consultants

Services

- ❖ Brownfields
- ❖ Outreach

Project Highlights

- ❖ Area Wide Planning
- ❖ Community Outreach and Involvement

Deliverables

- ❖ Area Wide Plan

Project Dates

- ❖ February 2015 - March 2018

Northern Nevada Development Authority Brownfields Coalition Grant Outreach and Technical Assistance

Churchill and Lyon Counties, Nevada

BEC Environmental, Inc. (BEC) was contracted by Converse Consultants to facilitate community outreach activities fostering public involvement and building community support for the Northern Nevada Development Authority's (NNDA) Brownfields program.



Life (Senior) Center, Churchill County, Nevada.
Source: BEC files.

Activities included, but were not limited to:

- Brownfields project fact sheet development and review
- Development/review of the NNDA Community Outreach Plan
- Development of the NNDA Brownfields Area Wide Plan, which focused on Churchill and Lyon Counties, and the cities of Yerington, Fallon, and Fernley
- Meeting/workshop participation and facilitation across the NNDA area
- Technical assistance to the Brownfields Steering Committees in Churchill and Lyon Counties



Detention Center, North Side,
Churchill County, Nevada.
Source: BEC files.

Client

Nye County

Services

- ❖ Brownfields
- ❖ Environmental Characterization
- ❖ Outreach

Project Highlights

- ❖ Community Outreach
- ❖ Brownfields identification
- ❖ Inter-Agency Coordination

Deliverables

- ❖ Cleanup and Reuse Plans
- ❖ Health & Safety Plans
- ❖ Phase I and II Environmental Site Assessments
- ❖ Quality Assurance Project Plans
- ❖ Quarterly Progress Reports
- ❖ Sampling Analysis Plans
- ❖ Website Updates

Project Dates

- ❖ February 2015 - March 2018

2015 Rural Desert Southwest Brownfields Coalition Assessment Grant Program Management

Nye, Esmerelda, Lincoln, Mineral, White Pine County, Nevada and Inyo County, California

Following the successful completion of the first-of-its-kind Brownfields assessment grant in 2014, Nye County contracted BEC Environmental, Inc. (BEC) to provide services in support of its 2015 Environmental Protection Agency (EPA) Brownfields Coalition Assessment grant for the identification, assessment, and reuse planning of sites for the Rural Desert Southwest Brownfields Coalition (RDSBC). The new grant encompasses the original five member counties of Nye, Esmeralda, Lincoln, and White Pine counties in Nevada, and Inyo County in California and includes the addition of a sixth member, Mineral County in Nevada.

By reviewing current and readily available public domain databases compiled by federal and state regulatory agencies, BEC developed and refined a database to inventory potential Brownfields properties and distinguish between sites with potential hazardous substance and petroleum contamination. BEC completed 19 Phase I Environmental Site Assessments (ESAs) and five Phase II ESAs on approved parcels through this grant period. BEC worked directly with community members and representatives to identify and assess Brownfield sites not readily identified through regulatory agencies. BEC's responsibilities included: preparing Phase I ESAs, Health & Safety Plans, Quality Assurance Project Plans and/or Sampling Analysis Plans, Phase II ESAs, cleanup and reuse plans as appropriate, an updated Public Outreach and Communications Plan, RDSBC website updates, an updated Area Wide Plan, and draft quarterly reports.

BEC worked with the Coalition, in partnership with local communities, to conduct area-wide planning activities to help promote a shared vision amongst the six Coalition members, citizens, businesses and other stakeholders. Throughout the project, BEC was involved in community outreach programs to address each community's concerns by facilitating meetings to educate and inform the public on the status of project activities and solicit public input and direction.



Rural Desert Southwest Brownfields Coalition seal.
Source: BEC files.

Client

PE/Q Energy, Inc.

Services

- ❖ NEPA

Project Highlights

- ❖ Agency coordination
- ❖ NEPA coordination

Deliverables

- ❖ Environmental Assessment
- ❖ Scoping Statement and Environmental Impact Datasheet

Project Dates

- ❖ February 2016 - March 2018

Battle Mountain Environmental Assessment

Battle Mountain, Nevada

BEC was contracted by PE/Q Energy, Inc. (PE/Q) to provide Environmental Support Services for the development of a photovoltaic solar energy project within the Battle Mountain Band of the Te-Moak Tribe of Western Shoshone Indians (Band) Renewable Energy Park.



Battle Mountain site.

Source: BEC files.

In 2013 and 2014, BEC assisted the Band in conducting a feasibility study for a potential solar project, to be constructed within the 430-acre Battle Mountain Band Renewable Energy Park. Using the research gathered, BEC provided a Scoping Statement and Environmental Impact Datasheet summarizing the potential environmental impacts which may have resulted from development of the park.

Based on the findings in the Scoping Statement and Environmental Impact Datasheet, PE/Q proposed to construct a 5-megawatt photovoltaic solar energy facility on 100 acres within the 430-acre park. BEC used PE/Q's project-specific information to update and revise the Environmental Impact Datasheet and associated Scoping Statement to summarize the potential environmental impacts due to the development of this PE/Q project and initiate project planning.

BEC drafted an EA on the project to allow PE/Q to initiate project review with the Bureau of Indian Affairs (BIA). As PE/Q moves through the National Environmental Policy Act (NEPA) process with the BIA, BEC will continue to provide support services during consultation with the BIA.

Project List

Client

Nevada Housing Division

Services

- ❖ NEPA

Project Highlights

- ❖ Division Approval of Environmental Review Record
- ❖ SHPO Concurrence with Section 106 Consultation Findings

Deliverables

- ❖ Environmental Assessment
- ❖ SHPO Section 106 Consultation Package

Project Dates

- ❖ December 2017 - March 2018



Highland Manor.
Source: BEC files.

Highland Manor Apartments Rehabilitation Environmental Review

Douglas County, Nevada

BEC Environmental, Inc. (BEC) evaluated the potential environmental impacts of a rehabilitation project for the Highland Manor Apartments in Douglas County, Nevada, under an environmental review Master Services Agreement with the Nevada Housing Division.

BEC conducted the review in accordance with the National Environmental Policy Act (NEPA) and U.S. Housing and Urban Development (HUD) regulations 24 CFR 50.4, 58.5, and 58.6. Based on BEC's review of HUD regulations and the project description, the level of environmental review was determined to be an Environmental Assessment. The environmental review covered Air Quality, Environmental Justice, Explosive and Flammable Concerns, Flood Insurance, Floodplain Management, Historic Preservation, Noise Abatement and Control, Site Contamination, Wetlands Protection, Wild and Scenic Rivers, Airport Hazards, Farmlands Protection, Coastal Barrier Resources, Coastal Zone Management, and Sole Source Aquifers. The environmental review also included multiple development, socioeconomic, community facilities and services, and natural features assessment factors.

BEC professionals compiled and reviewed available information on each of the elements, assessed the potential for impacts to those elements, identified required mitigation where applicable, and documented the review.

As part of the environmental review process, BEC drafted the Nevada State Historic Preservation Office (SHPO) Section 106 Consultation Package, which the Division submitted to SHPO for a concurrence determination.

BEC was also responsible for drafting comment and consultation request letters, public notices, and HUD funding request forms.

An Environmental Assessment was developed for Division review. An Environmental Review Record was compiled which contained the data and documents supporting the determinations made in the Assessment.

Project List

Client

Nevada Housing Division

Services

- ❖ NEPA

Project Highlights

- ❖ Division Approval of Environmental Review Record
- ❖ SHPO Concurrence with Section 106 Consultation Findings

Deliverables

- ❖ Categorical Exclusion Subject to the laws and authorities in 24 CFR Section 58.5
- ❖ SHPO Section 106 Consultation Package

Project Dates

- ❖ December 2017 - March 2018



Desert Properties.
Source: BEC files.

Desert Properties Rehabilitation Environmental Review

Tonopah, Nevada

BEC Environmental, Inc. (BEC) evaluated the potential environmental impacts of a rehabilitation project for the Desert Properties in Tonopah, Nevada, under an environmental review Master Services Agreement with the Nevada Housing Division.

BEC conducted the review in accordance with the National Environmental Policy Act (NEPA) and U.S. Housing and Urban Development (HUD) regulations 24 CFR 50.4, 58.5, and 58.6. Based on BEC's review of HUD regulations and the project description, the level of environmental review was determined to be a HUD Categorical Exclusion Subject to the laws and authorities in 24 CFR Section 58.5 (CEST). The environmental review covered Air Quality, Environmental Justice, Explosive and Flammable Concerns, Flood Insurance, Floodplain Management, Historic Preservation, Noise Abatement and Control, Site Contamination, Wetlands Protection, Wild and Scenic Rivers, Airport Hazards, Farmlands Protection, Coastal Barrier Resources, Coastal Zone Management, and Sole Source Aquifers.

BEC professionals compiled and reviewed available information on each of the required elements, assessed the potential for impacts to those elements, identified required mitigation where applicable, and documented the review.

As part of the environmental review process, BEC drafted the Nevada State Historic Preservation Office (SHPO) Section 106 Consultation Package, which the Division submitted to SHPO for a concurrence determination.

BEC was also responsible for drafting consultation request letters, public notices, and HUD funding request forms.

Documentation of the potential impacts was summarized using HUD templates and an Environmental Review Record was compiled and submitted.

Project List

Client

Nye County

Services

- ❖ Environmental Characterization

Project Highlights

- ❖ Sampling design in accordance with Interstate Technology & Regulatory Council (ITRC) sampling guidance

Deliverables

- ❖ One Limited Site Investigation Report

Project Dates

- ❖ March 2017 - March 2018

Unregulated Firing Range Phase II Limited Site Investigation

Pahrump, Nevada

BEC Environmental, Inc. (BEC) was contracted to provide professional services for site assessment activities adjacent to the Nye County Gravel Pit at a formerly used unauthorized firing range, located on Bureau of Land Management (BLM) land on East Basin Road, Pahrump, Nevada.



Sample collection.

Source: BEC files.

BEC conducted field sampling of composite and discrete soil samples from surface and subsurface locations (up to 2 feet below ground surface-bgs) based on the Sampling and Analysis Plan. Sample locations were tracked using a GPS unit and marked with labeled and flagged wooden stakes for use in future field identification.

A summary report was developed including analytical results, maps, conclusions, and recommendations and was signed by a Nevada Certified Environmental Manager.

The project entailed stakeholder coordination facilitated by BEC among the Nye County Public Works Department, BLM, and Nevada Division of Environmental Protection.



Material preparation before sampling.

Source: BEC files

Project List

Client

Advanced Rail Energy Storage, LLC

Services

- ❖ Government Liaison and Relations
- ❖ Permitting and Compliance Support
- ❖ Outreach

Project Highlights

- ❖ BLM Right of Way Grant
- ❖ PUCN Utilities Environmental Protection Act Permit
- ❖ Coordinated with multiple agencies, two county governments, and public stakeholders

Deliverables

- ❖ Biological Assessment
- ❖ Environmental Assessment
- ❖ Plan of Development
- ❖ Press Releases
- ❖ Project Iteration Maps
- ❖ BLM Planning Documents
- ❖ Project Fact Sheets/Brochures

Project Dates

- ❖ April 2012 - April 2018

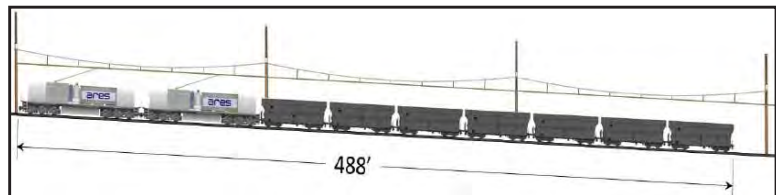


ARES Tehachapi Pilot Project (1/5th scale) in operation.
Source: BEC files.

Advanced Rail Energy Storage (ARES) BLM Right-of-Way Notice to Proceed Coordination

Clark and Nye Counties, Nevada

BEC Environmental, Inc. (BEC) was contracted by ARES to provide professional support for the ARES Nevada project with federal, state, county, and local interactions for the development of a first-of-its-kind rail energy storage project.



Artistic rendering of the shuttle train and overhead catenary line.
Source: ARES.

BEC coordinated with ARES, the Bureau of Land Management (BLM), US Fish and Wildlife Service (USFWS), and Nevada Department of Wildlife (NDOW) to facilitate ARES' receipt of a BLM right of way grant for their project. The site entails approximately 100 acres in Clark and Nye Counties.

BEC continues to support coordination and communication between BLM, USFWS, NDOW, Nevada Department of Transportation, Clark County, Nye County, The Public Utilities Commission of Nevada (PUCN), and Valley Electric Association (VEA).

BEC also continues to assist ARES with permit identification, and completion, and with compliance for the construction and operation of the project. BEC acts as the local point of contact for federal, state, county, local, and public requests for information. As the project moves through construction, BEC coordinates and assists other ARES subcontractors with project information, environmental permit compliance, project mapping, and providing recommendations for sources of local project development support.

Project List

Client

Nevada Housing Division

Services

- ❖ NEPA

Project Highlights

- ❖ Division Approval of Environmental Review Record
- ❖ SHPO Concurrence with Section 106 Consultation Findings

Deliverables

- ❖ Environmental Assessment
- ❖ SHPO Section 106 Consultation Package

Project Dates

- ❖ December 2017 - April 2018



Belmont Apartments
Source: BEC files.

Belmont Apartments Rehabilitation Environmental Review

Tonopah, Nevada

BEC Environmental, Inc. (BEC) evaluated the potential environmental impacts of a rehabilitation project for the Belmont Apartments in Tonopah, Nevada, under an environmental review Master Services Agreement with the Nevada Housing Division.

BEC conducted the review in accordance with the National Environmental Policy Act (NEPA) and U.S. Housing and Urban Development (HUD) regulations 24 CFR 50.4, 58.5, and 58.6. Based on BEC's review of HUD regulations and the project description, the level of environmental review was determined to be an Environmental Assessment. The environmental review covered Air Quality, Environmental Justice, Explosive and Flammable Concerns, Flood Insurance, Floodplain Management, Historic Preservation, Noise Abatement and Control, Site Contamination, Wetlands Protection, Wild and Scenic Rivers, Airport Hazards, Farmlands Protection, Coastal Barrier Resources, Coastal Zone Management, and Sole Source Aquifers. The environmental review also included multiple development, socioeconomic, community facilities and services, and natural features assessment factors.

BEC professionals compiled and reviewed available information on each of the elements, assessed the potential for impacts to those elements, identified required mitigation where applicable, and documented the review.

As part of the environmental review process, BEC drafted the Nevada State Historic Preservation Office (SHPO) Section 106 Consultation Package, which the Division submitted to SHPO for a concurrence determination.

BEC was also responsible for drafting consultation request letters, public notices, and HUD funding request forms.

An Environmental Assessment was developed for Division review. An Environmental Review Record was compiled which contained the data and documents supporting the determinations made in the Assessment.

Project List

Client

NyE Communities Coalition (NyECC)

Services

- ❖ Brownfields
- ❖ Recycling and Solid Waste Management Planning
- ❖ Outreach

Project Highlights

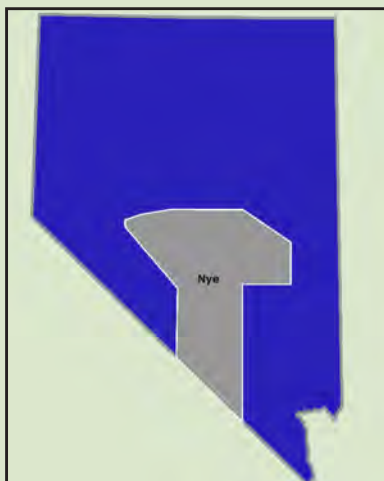
- ❖ 8-hour course on Solid Waste Disposal and Recycling and Biohazard Disposal

Deliverables

- ❖ Solid Waste and Biohazard Disposal Training
- ❖ Student assessment
- ❖ Pre- and post-course student survey

Project Dates

- ❖ March 2017 - April 2018



Nevada state map with Nye County detail.

Source: BEC files.

Solid Waste and Biohazard Disposal Training

Pahrump, Nevada

BEC Environmental, Inc. (BEC) was contracted to provide professional services for the development and implementation of an 8-hour solid waste and biohazard disposal course for Nye County's U.S. Environmental Protection Agency (EPA) FY16 Environmental Workforce Development and Job Training (EWDJT) Program.

BEC prepared and presented the first 8-hour course on Solid Waste Disposal and Recycling and Biohazard Disposal for 12 students. The results of the student assessment were compiled and distributed to NyE Communities Coalition. In addition, a pre- and post-course student survey was conducted to evaluate the effectiveness of delivering learning objectives and provide guidance for future course development.

This first class provided valuable comments and feedback which will be incorporated in future classes. We are proud to say Rachel Schlick received the highest ratings possible from every student!



Graduates of the July 10, 2017, Nye County Solid Waste and Biohazard Disposal Training Class through the EWDJT Program.

Source: BEC files.

Client

Nye County Administration

Services

- ❖ Economic Development Support
- ❖ Grants
- ❖ Outreach

Project Highlights

- ❖ Community outreach
- ❖ Grant writing
- ❖ Inter-organizational coordination
- ❖ Reuse Plan

Deliverables

- ❖ Bullfrog Commercial Park prospectus
- ❖ Index of potential funding resources
- ❖ Presentation on natural gas potential in Pahrump for Southwest Gas
- ❖ Brownfields Hazardous Substance Assessment Grant application
- ❖ Community Development Block Grant application for water systems at the former Barrick Bullfrog Mine
- ❖ Application to HUD for earmarked funds to Tonopah physical therapy facility
- ❖ Categorical Exclusion Subject to the laws and authorities in 24 CFR Section 58.5
- ❖ Commission for Cultural Affairs grant submitted for The Old Nye County Courthouse renovation
- ❖ Submission of the Gabbs NDEP/ Brownfields asbestos/lead paint abatement application
- ❖ Tonopah Airport Reuse Plan

Project Dates

- ❖ May 2010 - March 2019 (under several contracts)

Nye County Economic Development Planning and Technical Assistance

Nye County, Nevada

BEC provided technical assistance to Nye County to evaluate the impacts of, plan for, and facilitate development of renewable energy projects, airport expansions, and mine reuse opportunities. BEC reviewed and documented proposed renewable energy sites, prepared maps utilizing GIS information, and coordinated with the Bureau of Land Management (BLM), developers, and local stakeholders resulting in early identification and mitigation of development concerns.



Tonopah Airport hanger.
Source: BEC files.

BEC provided preliminary National Environmental Policy Act information and significant coordination with BLM to facilitate project evaluations on federally managed lands in Nye County. BEC also provided environmental assessment support to Nye County for federal grants received.

Nye County Commissioners and staff directed BEC to prepare grant requests for a variety of federal and state agencies. Applications prepared by BEC in support of various programs garnered over \$4.75 million for Nye County, in the form of ten separate successful grant applications.

BEC created a funding resources index to match project opportunities with available funds.

Nye County tasked BEC with compiling information regarding its three general aviation airports: Beatty, Gabbs, and Tonopah. The task was in response to multiple requests for information for airport facilities requiring service storage and operational needs for large manufacturing and commercial servicing firms that desired access to remote, strategically located airports throughout the United States.

Project List

Client

Baughman & Turner, Inc.

Contact

Pamela Pitcher
Senior Vice President
1210 Hinson St.
Las Vegas, NV 89102
(702) 870-8771
PamP@baughman-turner.com

Services

- ❖ Wildlife Surveys
- ❖ Botanical Surveys

Highlights

- ❖ Expedited turnaround time of deliverables
- ❖ Recommended determination of "No Effect" on Federally-listed species
- ❖ Assisted in completion of a FEMA CLOMR application

Deliverables

- ❖ Biological Evaluation

Project Dates

- ❖ March 2018 - April 2018



Roadrunner observed on site during surveys.
Source: BEC files.

Vegas Trade Village Biological Evaluation

North Las Vegas, Nevada

BEC Environmental, Inc. (BEC) was retained by Baughman & Turner, Inc. (Baughman-Turner) to perform a Biological Evaluation for the site of the proposed Vegas Trade Village in North Las Vegas, Nevada. The Biological Evaluation was necessary to support Baughman-Turner's application for a Conditional Letter of Map Revision (CLOMR) from the Federal Emergency Management Agency (FEMA). As a condition of processing the CLOMR, FEMA required a Biological Evaluation be conducted to confirm the proposed project would not involve the "Take" of any Endangered Species Act (ESA)-listed species or result in the destruction or adverse modification of critical habitat.

BEC biologists acquired data from the U.S. Fish and Wildlife Service (USFWS), Nevada Department of Wildlife (NDOW), and Nevada Natural Heritage Program (NNHP) to identify protected species potentially occurring in the area. BEC biologists surveyed the project area to characterize the habitat, identify potential presence of ESA-listed species or other species of concern, and evaluate potential impacts to species identified.

BEC documented the findings in a Biological Evaluation Report, including site and project description, a summary of species identified as potentially occurring, and an effects analysis based on observations made during the site survey as well as supporting data, photographs, and map figures. BEC also assisted Baughman-Turner in summarizing the findings from the Biological Evaluation in the CLOMR application.



Zone A Special Flood Hazard Area.
Source: BEC files.

Project List

Client

Advanced Rail Energy Storage, LLC

Services

- ❖ Biological
- ❖ NEPA
- ❖ Government Liaison and Relations
- ❖ Permitting and Compliance Support

Project Highlights

- ❖ Assisted with BLM ROW acquisition and permitting for first-of-its-kind technology
- ❖ Coordinated with multiple agencies, two county governments, and public stakeholders

Deliverables

- ❖ Biological Assessment
- ❖ Biological Survey Report
- ❖ BLM Right-of-Way Application
- ❖ Cultural Survey Report
- ❖ Fatal Flaw Analysis
- ❖ Outreach materials
- ❖ Preliminary and Draft Environmental Assessment
- ❖ Preliminary Plan of Development
- ❖ Visual Resource Assessment

Project Dates

- ❖ January 2013 - May 2018

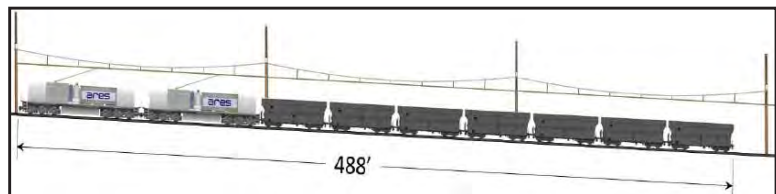


Vegetation on site.
Source: BEC files.

ARES Site Analysis, Natural Resource Surveys, Environmental Assessment, and Permitting Assistance

Clark and Nye Counties, Nevada

ARES Nevada, LLC (ARES) contracted BEC Environmental, Inc. (BEC) to assist with site selection, Bureau of Land Management (BLM) Right-of-Way (ROW) acquisition, permitting assistance, natural resource assessments, and stakeholder facilitation for the development of a first-of-its-kind, \$55 Million, grid-scale rail energy storage development.



Artistic rendering of the shuttle train and overhead catenary line.

Source: BEC files.

BEC assisted ARES with site selection and navigating the National Environmental Policy Act (NEPA) for the project located on land in Clark and Nye counties managed by the BLM.

BEC conducted natural resources surveys of the proposed project area for Mojave desert tortoise, birds and bats, sensitive plants, and noxious weeds. BEC developed the Biological Assessment based on survey findings. BEC also evaluated cultural and visual resources.

Mitigation measures were developed for impacts to desert tortoise, horse and burro, and yucca habitat, requiring close coordination with the Nevada Department of Wildlife (NDOW) and USFWS. BEC prepared the draft Environmental Assessment (EA), incorporating the mitigation measures to minimize potential impacts. BEC briefed local planning agencies on the project and conducted informal and formal outreach meetings to present the draft EA to affected communities.

Following receipt of the BLM ROW grant, BEC continues to support coordination and communication between ARES and BLM, USFWS, NDOW, Nevada Department of Transportation, Clark County, Nye County, the Public Utilities Commission of Nevada (PUCN), and the local transmission service provider. BEC assisted with local permitting processes and preparation of BLM-required plans. As the project moves into construction, BEC continues to provide environmental permit assistance and coordination support.

Client

Nye County

Services

- ❖ Grants

Project Highlights

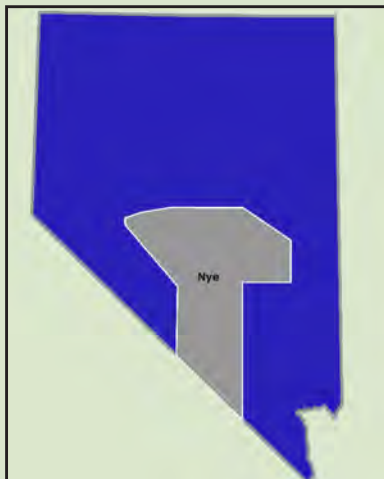
- ❖ Grant research and review
- ❖ Grant writing

Deliverables

- ❖ Beatty Airport Fueling Station CDBG Application
- ❖ Pahrump Fairgrounds Drainage Study and Flood Control Design CDBG Application

Project Dates

- ❖ August 2017 - June 2018



Nevada state map with Nye County detail.

Source: BEC files.

2017 Nye County Community Development Block Grant Technical Support

Nye County, Nevada

BEC Environmental, Inc. (BEC) was contracted by Nye County to provide technical assistance and grant preparation services in support of Nye County applications for the Community Development Block Grant program for the Fiscal Year 2017 Round 2 and Fiscal Year 2018.

BEC prepared preliminary project descriptions for review and consideration by the Nye County Board of County Commissioners (BoCC) for the following projects:

- Amargosa Valley Science and Technology Park (AVSTP) Water Line Installation
- Beatty Airport Redevelopment Phase II: Beatty Airport Fueling Station
- Beatty Airport Redevelopment Phase II: Beatty Airport Hangar
- Pahrump Fairgrounds Drainage Study and Flood Control Design
- Tonopah Airport Development Project Phase I: Tonopah Airport Fixed Base Operator (FBO) Building Demolition and Replacement

The Nye County BoCC approved the preparation applications for Fiscal Year 2017 Round 2 for the Beatty Airport Fueling Station and the Pahrump Fairgrounds Drainage Study and Flood Control Design. BEC prepared the CDBG applications for both projects. The Beatty Airport Fueling Station project was selected for presentation to the CDBG Advisory Panel, and BEC assisted with the preparation of the presentation. The Beatty Airport Fueling Station project was ranked second among eligible projects but was not selected for funding.

For Fiscal Year 2018, the Nye County BoCC approved the submission of applications for the Beatty Airport Fueling Station and the Pahrump Fairgrounds Drainage Study and Flood Control Design. BEC updated the Fiscal Year 2017 Round 2 applications for both projects. BEC also prepared the Environmental Review paperwork for both projects as part of the application.

Client

City of Henderson

Services

- ❖ Desert Tortoise Clearance Surveys

Project Highlights

- ❖ Rapid completion of surveys

Deliverables

- ❖ Worker Environmental Awareness Program materials
- ❖ Clearance Survey Report

Project Dates

- ❖ April 2018 - June 2018

Mission Hills Detention Basin Desert Tortoise Clearance Surveys

Henderson , Nevada

BEC Environmental, Inc. (BEC) was contracted by the City of Henderson to perform a desert tortoise clearance survey prior to commencement of sediment removal and maintenance activities in the Mission Hills Detention Basin at Arrowhead Trail and Lomprey Avenue in Henderson, Clark County, Nevada.

BEC biologists conducted a 100% coverage desert tortoise clearance survey of the 28-acre site in accordance with the Clark County Regional Flood Control District Biological Opinion, Las Vegas Programmatic Biological Opinion, and U.S. Fish and Wildlife Service Survey Protocol.

BEC developed a Worker Environmental Awareness Program for the project and conducted training for the operators prior to commencement of ground disturbance.



Survey site.
Source: BEC files.



Moderately vegetated area of the detention basin bottom
Source: BEC files.

Project List

Client

Clark County School District

Services

- ❖ Biological

Project Highlights

- ❖ Migratory Bird Surveys
- ❖ Desert Tortoise Presence/Absence Survey
- ❖ Worker Environmental Awareness Training program

Deliverables

- ❖ Environmental awareness information handout
- ❖ Presence/Absence Survey Summary Report

Project Dates

- ❖ April 2017 - July 2018



Spencer and Pyle future elementary school site.

Source: BEC files.

Clark County School District Facilities On-Call Biological

Clark County, Nevada



Desert Tortoise.

Source: BEC files.

BEC Environmental, Inc. (BEC) was contracted by Clark County School District (CCSD) to provide on-call biological services for conducting construction site worker environmental awareness training, desert tortoise monitoring and surveying, and migratory bird surveys.

BEC's primary roles in the project are:

- Provide Worker Environmental Awareness Training sessions to all personnel working on new school sites throughout Clark County.
- Provide biological monitoring services for CCSD construction site activities to ensure compliance with Bureau of Land Management (BLM) and U.S. Fish and Wildlife Service (USFWS) requirements, as stipulated in the BLM lease agreements, for the protection of sensitive biological resources.
- Conduct presence/absence and clearance surveys for Mojave desert tortoise.
- Conduct migratory bird surveys and monitoring.
- Provide an annual report summarizing the area of disturbance and desert tortoises identified and/or handled.

BEC has performed surveys and associated monitoring work for the Spencer and Pyle Future Elementary School Site, Tompkins and Conquistador School Site, and El Capitan and Mountains Edge.

Project List

Client

Nevada Housing Division

Contact

Tim Whitright
Deputy Administrator, Nevada
Housing Division
3300 West Sahara Avenue, Suite 300
Las Vegas, Nevada 89102
(702) 486-7259
twhitright@housing.nv.gov

Services

- ❖ NEPA

Highlights

- ❖ Division Approval of Environmental Review Record
- ❖ SHPO Concurrence with Section 106 Consultation Findings

Deliverables

- ❖ Categorical Exclusion Subject to the laws and authorities in 24 CFR Section 58.5
- ❖ SHPO Section 106 Package

Project Dates

- ❖ May 2018 - July 2018



Bristlecone Apartments Sign
Source: BEC files.

Bristlecone Apartments Environmental Review

Ely, Nevada

BEC Environmental, Inc. (BEC) evaluated the potential environmental impacts of a rehabilitation project for the Bristlecone Apartments in Ely, Nevada, under an environmental review Master Services Agreement with the Nevada Housing Division.



Bristlecone Apartments
Source: BEC files.

BEC conducted the review in accordance with the National Environmental Policy Act (NEPA) and U.S. Housing and Urban Development (HUD) regulations 24 CFR 50.4, 58.5, and 58.6. Based on BEC's review of HUD regulations and proposed project description, the level of environmental review was determined to be a HUD Categorical Exclusion Subject to the laws and authorities in 24 CFR Section 58.5 (CEST). The environmental review included the following categories: Air Quality, Environmental Justice, Explosive and Flammable Materials concerns, Flood Insurance, Floodplain Management, Historic Preservation, Noise Abatement and Control, Site Contamination, Wetlands Protection, Wild and Scenic Rivers, Airport Hazards, Farmlands Protection, Coastal Barrier Resources, Coastal Zone Management, and Sole Source Aquifers.

BEC Professionals compiled and reviewed available information on each of the required elements, assessed the potential for impacts to those elements, identified mitigation where applicable, drafted outreach letters, and documented the review. BEC drafted the Nevada State Historic Preservation Office (SHPO) Section 106 Consultation Package, which the Division reviewed and submitted to the SHPO. The SHPO concurred with the Divisions findings. The potential impacts were summarized in a HUD template.

Client

DesertLink, LLC

Services

- ❖ Environmental Characterization

Project Highlights

- ❖ Phase I completed to ASTM E1527-13 Standard
- ❖ No environmental conditions of concern were identified during the site conditions survey

Deliverables

- ❖ Series Compensation Yard in Crystal Substation Phase I ESA

Project Dates

- ❖ August 2018



Existing Crystal Substation.

Source: BEC files.

Crystal Substation Phase I Environmental Site Assessment

Dry Lake Valley, Nevada

BEC Environmental, Inc. (BEC) was contracted by DesertLink, LLC to perform a Phase I Environmental Site Assessment (ESA) for a proposed Series Compensation Station within the existing footprint of NV Energy's Crystal Substation in Dry Lake Valley (Clark County, Nevada).

BEC reviewed lists compiled by federal and state agencies identifying sites known or suspected to be contaminated, and facilities which handle hazardous substances or wastes. A computer database firm was used to provide listings of sites with the American Society for Testing and Materials (ASTM) standard search radius which included information from, but was not limited to, U.S. Environmental Protection Agency-designated Superfund sites, Superfund Enterprise Management System (SEMS) sites, Resource Conservation and Recovery Act (RCRA) facilities, and Nevada Division of Environmental Protection (NDEP) lists of Corrective Actions cases, leaking underground storage tank (LUST) cases, and registered underground storage tank (UST) owners. BEC reviewed geologic and hydrogeologic information to assess soil characteristics and ground water occurrence, relative depth, quality, and uses. BEC also reviewed historical aerial photography; U.S. Geological Survey maps; and building department, NDEP, ownership, zoning/land use, and any prior assessment usage records.

BEC performed a field visit, paying particular attention to the possible presence of unauthorized waste disposal, USTs, 55-gallon drums, sumps and clarifiers, wells, septic systems, oil-water separators and leachfields, and polychlorinated biphenyl-containing electrical transformers. Surrounding land use was evaluated for industrial and/or commercial activity and chemical usage, and for the presence of nearby facilities with readily identifiable USTs.

BEC summarized the results of the records review, interviews, and site visits in a Phase I ESA report.

Project List

Client

4LEAF Consulting, LLC for the
Regional Transportation Commission
of Southern Nevada

Services

- ❖ Permitting and Compliance Support

Project Highlights

- ❖ Compliance inspections and reporting
- ❖ Construction management briefings
- ❖ Review construction and design submittals

Deliverables

- ❖ Design Plan reviews
- ❖ Weekly Compliance Reports

Project Dates

- ❖ March 2015 - September 2018



Site construction activities.
Source: BEC files.

I-11 Boulder City Bypass Phase 2 Environmental Compliance

Boulder City, Nevada

4LEAF Consulting, LLC subcontracted BEC Environmental, Inc. (BEC) to assist the Regional Transportation Commission of Southern Nevada with environmental compliance support for the construction of Phase 2 of the Interstate 11 (I-11) Boulder City Bypass Project. The overall 18-mile highway project connects the existing U.S. Highway 93/95 from Las Vegas directly to the new Hoover Dam Bridge, bypassing the City of Boulder City, Nevada, thereby reducing congestion and improving travel times through the region.



Site construction activities.
Source: BEC files.

BEC's primary roles on the project were:

- BEC reviewed design and construction plans and reports to confirm documents included environmental mitigation measures or other environmental commitments. Recommendations and comments were provided to support effective compliance.
- Resource Specialists conducted weekly site inspections to document compliance with required mitigation measures related to stormwater controls, hazardous material management, and general environmental management.
- BEC also provided environmental briefings for construction management to proactively address issues and concerns to facilitate successful implementation of construction best management practices and avoid omitting potential environmental problems.

Client

Broadbent & Associates, Inc.

Services

- ❖ Biological

Project Highlights

- ❖ Reconfiguration of critically-congested and dangerous stretch of highway
- ❖ Rapid mobilization of team of biologists to conduct initial surveys to survey construction planning
- ❖ Delivery of high-quality, thorough products in a timely manner

Deliverables

- ❖ Noxious Weed Assessment Report
- ❖ Cactus and Yucca Survey Summary Report
- ❖ Salvaged Cactus and Yucca Inventory Summary Report
- ❖ Migratory Bird Nesting Survey Reports

Project Dates

- ❖ October 2017– September 2018



Mojave Yucca observed on site.

Source: BEC files.

Garnet Interchange Biological Support

Las Vegas, Nevada

BEC Environmental, Inc. (BEC) was contracted by Broadbent and Associates, Inc. to provide biological resources compliance assistance to Ames Construction, Inc. for environmental permitting and related requirements during reconstruction of the I-15/U.S. 93 interchange for the Nevada Department of Transportation (NDOT).



View of bridge in the Garnet Interchange project area.

Source: BEC files.

Initially, BEC conducted a noxious weed assessment of the project area to assist in the development of an Integrated Weed Management Plan. The assessment included pedestrian surveys identification of noxious weed species on site as well as dominant vegetation. The distribution and relative abundance of weed species were summarized in a final report for submittal to NDOT and the Bureau of Land Management.

BEC was tasked with surveying the project area to identify species, condition and location of all cacti and yuccas on site to assist in developing a salvage plan. BEC biologists surveyed the project area and developed spreadsheets, Arc GIS mapping layers, and a report summarizing the results of the efforts.

BEC also conducted a daily inventory of the salvaged cacti and yucca that had been salvaged by the contractor. BEC biologists visited the staging area/nursery each day to identify species and number of plants salvaged each day. A summary report was developed and tracking spreadsheets were updated.

BEC conducted migratory bird surveys to identify birds nesting within native vegetation on site. BEC developed a survey protocol and associated forms to support the surveys and reporting, which were reviewed and approved by NDOT. Surveys were conducted prior to surface disturbing activities and if nests were located, buffers were established and monitoring protocols were put into place.

Project List

Client

Nevada Division of State Parks

Services

- ❖ Biological
- ❖ NEPA

Project Highlights

- ❖ Biological Evaluations
- ❖ Biological Surveys
- ❖ Environmental Assessments
- ❖ National Park Service Compliance Support

Deliverables

- ❖ 9-Mile Elbow Campground Environmental Assessment
- ❖ 9-Mile Elbow Campground Biological Evaluation
- ❖ Pitchfork Ranch Campground Environmental Assessment
- ❖ Pitchfork Ranch Campground Biological Evaluation

Project Dates

- ❖ October 2017– September 2018



Walker River State Recreation Area.

Source: BEC files.

Walker River State Recreation Area Environmental Assessments

Lyon and Mineral County, Nevada

BEC Environmental, Inc (BEC) was contracted by the Nevada Division of State Parks (NDSP) to evaluate two areas proposed as campgrounds at the recently established Walker River State Recreation Area (WRSRA). In July 2017, the Walker Basin Conservancy conveyed over 12,000 acres of land within the Walker River basin to the State of Nevada via gift deeds for the WRSRA.



Walker River State Recreation Area.

Source: BEC files.

The properties deeded to NDSP included the Pitchfork Ranch and approximately 17.25-acres of informal, unregulated campground (“9-Mile Elbow Campground”), both located in Lyon County, Nevada. A portion of the Pitchfork Ranch was proposed to be developed into Pitchfork Ranch Campground along a portion of East Walker River. NDSP also proposed multiple improvements for 9-Mile Elbow Campground to support camping, picnicking, and accessing the river.

BEC prepared Environmental Assessments for both sites to evaluate the impacts of the projects on the natural and physical environment in accordance with National Environmental Policy Act (NEPA) and National Park Service (NPS) requirements.

BEC Field Biologists surveyed the project areas and collected field data to prepare Biological Evaluations to analyze potential effects of the proposed campgrounds, and associated actions, on species listed as endangered or threatened under the Endangered Species Act (ESA), or their designated critical habitat.

Client

Broadbent and Associates, Inc.

Services

- ❖ Botanical Surveys
- ❖ Wildlife Surveys

Project Highlights

- ❖ The BLM Carson City office requested permission to use Biological Survey Plan developed by BEC biologists as a template for use by others submitted to the office
- ❖ Quick mobilization for field surveys
- ❖ Identification of state protected plant species during botanical surveys

Deliverables

- ❖ Biological Survey Plan
- ❖ Biological Survey Report

Project Dates

- ❖ May - September 2018

Geofortis Pozzolan Mine Biological Survey

Lassen County, California

BEC Environmental, Inc. (BEC) was contracted by Broadbent and Associates, Inc. (Broadbent) to provide biological resources support for the proposed expansion of a mine site in Lassen County, California. The mine would extract pozzolan materials from private lands and lands managed by the Bureau of Land Management (BLM). Broadbent was contracted to assist the client with the planning and permitting requirements, which included the BLM right-of-way leasing process and the associated environmental reviews.

BEC reviewed available information on the project area and biological resources potentially present in the area or otherwise impacted by the proposed project. BEC developed a draft Biological Resources Survey Plan for review by the BLM biologists. Comments were addressed and the final Plan was submitted. The BLM subsequently requested permission to utilize the Survey Plan developed by BEC biologists as a template for all Survey Plans submitted to the Carson City office.

BEC biologists and a BLM-approved botanist conducted surveys of the area proposed for the project, as outlined in the Survey Plan. The biologists characterized the habitat in the area, conducted targeted surveys for rare or protected plant species suspected to be in the area, conducted migratory bird surveys, and documented plant, including noxious weeds, and animal species in the area during the surveys. The team developed and submitted a Biological Survey Report summarizing the findings of the survey.



Nesting lesser nighthawk, observed during wildlife survey
Source: BEC files.

Client

Nevada Division of State Parks

Contact

Janice Keillor, Parks and Recreation
Program Manager

Dana Dapolito, Division Planner
775-684-2740

Services

- ❖ NEPA

Highlights

- ❖ Desert Tortoise Presence/
Absence Survey

Deliverables

- ❖ Biological Assessment
- ❖ Environmental Assessment
- ❖ Presence/Absence Survey
Summary Report

Project Dates

- ❖ April 2017 - September 2018

Ice Age Fossils State Park Biological Assessment and Environmental Assessment

North Las Vegas, Nevada

BEC conducted NEPA compliance surveying and reporting of the newly proposed/designated Ice Age Fossils State Park north of Las Vegas. BEC conducted a pedestrian survey of the 320-acre proposed State Park site in accordance with current U.S. Fish and Wildlife Service protocols. Locations of identified protected species, or protected species habitat, were recorded.

BEC developed a preliminary draft EA based on National Park Service and National Environmental Policy Act standards for EAs, incorporating observed site conditions, readily available information for the site, and other information/reports provided by Nevada Division of State Parks (NDSP).

Upon initiation of data collection for the EA, the NDSP had not yet completed the cultural survey nor had it determined the extent or location of supporting Park infrastructure despite the tight time-line for completion of the EA. BEC maintained frequent communication with NDSP to ensure a comprehensive and realistic EA was drafted while the project was being developed. Completion of the EA required not only familiarity with federal NEPA standards, but also National Park Service EA requirements.

During completion of the final EA, project management within the NDSP changed, adding additional review of and modifications to the document. Other modifications to the original scope of work were requested at this late phase, requiring the completion of a change order and additional research for a revised EA. BEC worked closely with the new NDSP project manager to ensure the final deliverables meet NDSP and the planned park infrastructure needs.

Project List

Client

SWCA Environmental Consultants, Inc.

Contact

Andrew (AJ) Berger
Project Manager, Authorized
Biologist
7210 Placid St.
Las Vegas, NV 89119
(702) 248-3880
ABerger@SWCA.com

Services

- ❖ Desert Tortoise Presence/
Absence Surveys

Highlights

- ❖ Endangered Species Act
Compliance
- ❖ Utilization of USFWS Protocol

Deliverables

- ❖ Daily Field Summary

Project Dates

- ❖ September 2018 - October 2018



Desert tortoise found in burrow.
Source: BEC files.

Yellow Pine Solar Energy Baseline Desert Tortoise Surveys

Pahrump Valley, Clark County, Nevada

BEC Environmental Inc. (BEC) was contracted by SWCA Environmental Consultants (SWCA) to assist with Mojave desert tortoise presence/absence surveys to assess tortoise density in an area being considered for development of the proposed Yellow Pine Solar Energy Project in the Clark County portion of Pahrump Valley, Nevada.

The BEC biologist augmented the SWCA team and assisted in conducting the surveys in accordance with the U.S. Fish and Wildlife Service protocols. Biologists utilized data collection software to record GPS locations and details of each tortoise and all sign of tortoises encountered during the survey. Data collected during this effort was used to assess potential impacts on the species, inform site selection and project layout, and develop mitigation measures to address adverse impacts on the species.



Biologists surveying project area.
Source: BEC files.

Project List

Client

Ovation Development Corporation

Services

- ❖ NEPA

Project Highlights

- ❖ Clark County Approval of Environmental Review Record
- ❖ SHPO Concurrence with Section 106 Consultation Findings

Deliverables

- ❖ Draft Public Notice
- ❖ Environmental Factors Comment Request Letters
- ❖ HUD Environmental Assessment
- ❖ Nevada SHPO Section 106 Consultation Package

Project Dates

- ❖ August - November 2018



Subject site.

Source: BEC files.

Oquendo Senior Apartments HUD Environmental Review

Las Vegas, Nevada

BEC Environmental, Inc (BEC) was contracted by the Ovation Development Corporation (Ovation) to conduct an Environmental Review for the proposed construction of a 201-unit affordable senior rental community in southwest Las Vegas, Nevada. The development was proposed to be partially funded with U.S. Department of Housing and Urban Development (HUD) Home Investment Partnerships Program (HOME) funds, requiring compliance with the National Environmental Policy Act (NEPA) and HUD regulations 24 CFR 50.4, 58.5, and 58.6. Clark County as a HUD designated Responsible Entity, requested the Environmental Review.

Based on BEC's review of HUD regulations and the project description, the level of environmental review was determined to be an Environmental Assessment. The environmental review covered Air Quality, Environmental Justice, Explosive and Flammable Concerns, Flood Insurance, Floodplain Management, Historic Preservation, Noise Abatement and Control, Site Contamination, Wetlands Protection, Wild and Scenic Rivers, Airport Hazards, Farmlands Protection, Coastal Barrier Resources, Coastal Zone Management, and Sole Source Aquifers. The environmental review also included multiple development, socioeconomic, community facilities and services, and natural features assessment factors.

BEC professionals compiled and reviewed available information on each of the elements, assessed the potential for impacts to those elements, identified required mitigation where applicable, and documented the review. As part of the environmental review process, BEC analyzed the potential impact of the project on the surrounding buildings, neighborhoods, and businesses, as well as existing vacant land. Based on the information gathered, BEC drafted the Nevada State Historic Preservation Office (SHPO) Section 106 Consultation Package, which Clark County, as the HUD designated Responsible Entity, submitted to SHPO for a concurrence determination.

BEC was also responsible for drafting comment and consultation request letters, tribal coordination and comment request letters, public notices, and HUD funding request forms.

An Environmental Review Record was compiled which contained the data and documents supporting the determinations made in the Environmental Assessment.

Project List

Client

Wall Development Group

Services

- ❖ Environmental Characterization

Project Highlights

- ❖ No recognized environmental conditions were identified
- ❖ Phase I completed to ASTM E1527-13 Standard

Deliverables

- ❖ Phase I Environmental Site Assessment

Project Dates

- ❖ November 2018

Farm Road Phase I Environmental Site Assessment

Las Vegas, Nevada

BEC Environmental, Inc. (BEC) was contracted by Wall Development Group (WDG) to prepare a Phase I Environmental Site Assessment (ESA) for 8470 Farm Road in Las Vegas, Nevada. The purpose of the ESA was to evaluate existing and historic site conditions and land use to identify potential environmental liabilities. The ESA assessed the possibility of environmental impairment of the property due to the presence, handling, or disposal of hazardous substances on or near the property.

BEC conducted the site visit, local and regulatory records review, environmental database review, historical sources review, and developed the report consistent with the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments and the United States Environmental Protection Agency (EPA) final rule contained within Code of Federal Regulations (CFR) Volume 40 Part 312 - Standards and Practices for All Appropriate Inquiries.



Concrete block dumpster enclosure observed on the subject site.
Source: BEC files.



8470 Farm Road, Las Vegas, Nevada
Source: BEC files.

Project List

Client

Nevada Housing Division

Services

- ❖ NEPA
- ❖ Environmental Characterization

Project Highlights

- ❖ Division Approval of Environmental Review Record
- ❖ SHPO Concurrence with Section 106 Consultation Findings

Deliverables

- ❖ Environmental Assessment
- ❖ Categorical Exclusion Subject to the laws and authorities in 24 CFR Section 58.5
- ❖ HUD Floodplain Management Documentation
- ❖ Phase I Environmental Site Assessment
- ❖ SHPO Section 106 Consultation Package

Project Dates

- ❖ September 2014 - December 2018



Nevada state map with county detail.

Source: BEC files.

Nevada Housing Division Environmental Reviews (Master Services Agreement)

Nevada

The Nevada Housing Division established a Master Services Agreement with BEC Environmental, Inc. (BEC) to assist the Division in evaluating the environmental impacts of proposed grant-funded projects. Projects supported or funded through the Division utilize U.S. Housing and Urban Development (HUD) grant funding and are subject to reviews in accordance with the National Environmental Policy Act (NEPA).

BEC's team of environmental professionals review proposed projects in accordance with HUD regulations at 24 CFR 50.4, 58.5, and 58.6 and NEPA guidelines, evaluating the projects' potential impacts on each of the environmental elements identified in these regulations.

BEC professionals compile and review available information on each of these elements, assess the potential for impacts, identify mitigation measures, and document the review. BEC also assists the Division with the drafting of public announcements, comment and consultation request letters, cover letters, and official HUD forms.

Projects completed under this Agreement to date include a Phase I Environmental Site Assessment for the Jeanell Apartments in Carson City and NEPA Environmental Reviews for the construction and/or rehabilitation of:

- Belmont (Tonopah)
- Desert Properties (Tonopah)
- Highland Manor (Carson City)
- Jeanell Apartments (Carson City)
- Plaza at 4th Street (Reno)
- Rural Nevada Development Corporation Program (Rural Nevada)
- Southwood Apartments (Yerington)
- Three Properties in Lincoln County (Panaca/Pioche/Caliente)
- Woodlands Apartments (Elko)

Client

Wood-Rodgers, Inc.

Services

- ❖ Permitting and Compliance Support

Project Highlights

- ❖ Corridor evaluation for environmental concerns
- ❖ Corridor evaluation for land use and land management concerns
- ❖ Outreach to Nevada's rural communities

Deliverables

- ❖ Alternatives Evaluation Report
- ❖ Planning and Environmental Linkage Report
- ❖ Public outreach material

Project Dates

- ❖ December 2016 - December 2018

I-11 Alternatives Evaluation and Statewide Transportation Plan

Nevada

BEC Environmental, Inc. (BEC) was contracted by Wood-Rodgers, Inc. (Wood-Rodgers) to assist in the development of the Nevada Department of Transportation's (NDOT) statewide Long-Range Transportation Plan (LRTP). BEC assisted the team and NDOT with reaching out to the rural communities to gain their insight into the transportation needs in their areas.



I-11 Alternatives Public Outreach.
Source: BEC files.

The Wood-Rodgers team conducted an alternatives evaluation for the next phase of the I-11 Project, which would identify a potential north-south corridor between Las Vegas and an interconnection with I-80 in northern Nevada. BEC evaluated potential opportunities for, or constraints on, the project related to environmental resources, land use, and land ownership/management. BEC was tasked with evaluating how the economic vitality of the region may be affected by the alternatives.

BEC reviewed existing data, reports, and maps to identify plants and wildlife and their habitats; cultural and paleontological resources; water resources; lands dedicated to conservation and recreation; and plans for local land use, federal land management, and tribal management. Based on this review, BEC developed sections of the Alternatives Analysis evaluating the alternative corridor scenarios, including data tables documenting research for each evaluation criterion, a summary report, and a high-level summary matrix.

BEC participated in outreach meetings to gather local input on the corridor alternatives and to collect additional data.



I-11 Logo.
Source: NDOT.

Project List

Client

Bureau of Reclamation Lower
Colorado Region

Services

- ❖ Environmental Site Assessment

Project Highlights

- ❖ Report developed on fast turnaround to meet client needs

Deliverables

- ❖ Phase I Environmental Site Assessment (ESA)

Project Dates

- ❖ January 2019

Future Dennis Underwood Conservation Area Environmental Site Assessment

Imperial County, California

BEC Environmental, Inc. (BEC) was retained by the United States Department of the Interior Bureau of Reclamation (USBR) to perform a Phase I Environmental Site Assessment (ESA) of the Future Dennis Underwood Conservation Area property located on an approximately 635-acre portion of Imperial County land. This Phase I was completed on an expedited project timeline (10 days from notice to proceed) to facilitate property acquisition by the USBR.

BEC conducted a regulatory compliance file review of California Department of Toxic Substances Control and California Colorado Regional Water Quality Control Board (RWQCB) records.

BEC performed a site reconnaissance of the property and surrounding areas with a concentration in the possible presence of underground storage tanks (UST), wells, septic systems, oil water separators, leachfields, and onsite waste disposal.

BEC prepared a written report summarizing the findings, opinions, and conclusions in accordance with the American Society for Testing and Materials (ASTM) 1527-13 Standard Practice for Environmental Site Assessments.



Future Dennis Underwood
Conservation Area property
Source: BEC files.



Future Dennis Underwood Conservation Area property
Source: BEC files.

Project List

Client

Battle Mountain Band of the Te-Moak Tribe (Band)

Services

- ❖ Biological
- ❖ Environmental Characterization
- ❖ NEPA

Project Highlights

- ❖ Site reconnaissance
- ❖ Interview with current owners, occupants, and local government officials

Deliverables

- ❖ Phase I ESA
- ❖ Biological Assessment
- ❖ Cultural Survey
- ❖ Title Search Report
- ❖ EA

Project Dates

- ❖ March 2017 - February 2019

Battle Mountain Band Environmental Services

Battle Mountain, Nevada



Vegetation on site.
Source: BEC files.

BEC Environmental, Inc. (BEC) was contracted to provide professional services to assist the Battle Mountain Band of the Te-Moak Tribe (Band), with the environmental requirements associated with the purchase of two parcels of Bureau of Land Management (BLM) land adjacent to the Band's tribal lands.

BEC's primary roles in the project are:

- Provide a Phase I Environmental Site Assessment (ESA), including a discussion of findings, site vicinity map, site map, site photographs, regulatory search data, and conclusions, as appropriate. The report will summarize findings, conclusions, and recommendations (if appropriate) and will be signed by a Nevada Certified Environmental Manager.
- Conduct one wildlife and one botanical field survey for each parcel to identify existing species, including the presence or absence of threatened, endangered, or otherwise protected flora and fauna, and associated habitat. The botanical survey will include a weed inventory.
- Develop an Environmental Assessment (EA) in which BEC will evaluate direct, indirect and cumulative impacts, including unavoidable impacts, relative to the proposed land sale and the no action alternatives.

Project List

Client

CA Group, Inc.

Contact

Chad Anson
Project Manager
1135 Terminal Way, Suite 106
(775) 283-8394
chad.anson@c-agroup.com

Services

- ❖ Resources Data Gathering and Collection
- ❖ Resource Agency Inquiries
- ❖ Impact Evaluation and Review
- ❖ Regulatory Constraints Analysis

Highlights

- ❖ Analysis of Sensitive Environmental Resources
- ❖ Multiple, Complex Alternatives

Deliverables

- ❖ Environmental Constraints Summary Section of Report
- ❖ Permitting Requirements Summary Section of Report

Project Dates

- ❖ August 2018 - February 2019

Interstate 80 Corridor Alternatives Analysis – Sparks to Tahoe Reno Industrial Center

Washoe/Storey County, Nevada

CA Group, Inc. was contracted by the Nevada Department of Transportation (NDOT) to evaluate various alternatives to assist in reducing the traffic congestion on Interstate 80 between Reno/Sparks and the Tahoe-Reno Industrial Center to the east. Alternatives to be considered included expansion and reconfiguration of the existing highway through the narrow canyon along the Truckee River and potential new alignments.



Source: Google Earth

CA Group tasked BEC Environmental to evaluate readily available information on environmental resources within the existing corridor and potential alternate corridors in the region. The objective of the review was to identify environmental concerns or constraints that would make the proposed improvements or development of new alignments unfeasible.

BEC compiled available information from multiple sources including previously completed studies, available databases, and data requested from resource agencies. The collected data was reviewed to identify significant mitigatable and non-mitigatable impacts on managed or protected resources such as special-status wildlife and plant resources, air quality, natural habitats and wetlands, water resources, land ownership, and cultural resources. The potential constraints these resources may place on the feasibility of each alternative was evaluated, including permitting requirements, mitigation measures, and schedule impacts. The findings were summarized in sections and graphics included in reports submitted to NDOT for consideration in planning and management scenarios.

Project List

Client

City of Fallon

Services

- ❖ NEPA

Deliverables

- ❖ Comment Request Letters
- ❖ Draft Public Notice
- ❖ HUD Environmental Assessment
- ❖ Nevada SHPO Section 106 Consultation Package

Project Dates

- ❖ July 2018 - March 2019

City of Fallon Food Hub HUD Environmental Review

City of Fallon, Nevada

BEC Environmental, Inc. (BEC) was contracted by the City of Fallon to conduct an Environmental Review for the proposed purchase of a 0.64-acre parcel of vacant land for transfer to the Fallon Food Hub. The development may be partially funded with U.S. Department of Housing and Urban Development (HUD) Home Investment Partnerships Program (HOME) funds, requiring compliance with the National Environmental Policy Act (NEPA) and HUD regulations 24 CFR 50.4, 58.5, and 58.6. The City of Fallon, as a HUD designated Responsible Entity, requested the Environmental Review.

Based on BEC's review of HUD regulations and the project description, the level of environmental review was determined to be an Environmental Assessment. The environmental review covered Air Quality, Environmental Justice, Explosive and Flammable Concerns, Flood Insurance, Floodplain Management, Historic Preservation, Noise Abatement and Control, Site Contamination, Wetlands Protection, Wild and Scenic Rivers, Airport Hazards, Farmlands Protection, Coastal Barrier Resources, Coastal Zone Management, and Sole Source Aquifers. The environmental review also included multiple development, socioeconomic, community facilities and services, and natural features assessment factors.

BEC professionals compiled and reviewed available information on each of the elements, assessed the potential for impacts to those elements, identified required mitigation where applicable, and documented the review.

As part of the environmental review process, BEC analyzed the potential impact of the sale and subsequent construction of the Fallon Food Hub building on the surrounding buildings of historic age and the adjacent proposed downtown historic district. Based on the information gathered, BEC drafted the Nevada State Historic Preservation Office (SHPO) Section 106 Consultation Package, which the City of Fallon submitted to SHPO for a concurrence determination. BEC was also responsible for tribal consultation and drafting comment and consultation request letters, public notices, and HUD funding request forms.

An Environmental Assessment was developed for City of Fallon review. An Environmental Review Record was compiled which contained the data and documents supporting the determinations made in the Environmental Assessment.



Vacant lot
Source: BEC files.

Project List

Client

Nevada HAND

Services

- ❖ NEPA

Project Highlights

- ❖ Clark County Approval of Environmental Review Record
- ❖ SHPO Concurrence with Section 106 Consultation Findings

Deliverables

- ❖ Comment Request Letters
- ❖ Draft Public Notice
- ❖ HUD Environmental Assessment
- ❖ SHPO Consultation Package

Project Dates

- ❖ January - April 2018
- ❖ December 2018 - April 2019



Tamarisk and other vegetation observed on site.
Source: BEC files.

Nevada HAND North 5th Street Apartments HUD Environmental Review

North Las Vegas, Nevada

BEC Environmental, Inc (BEC) was contracted by Nevada HAND, a 501(c)(3), to conduct an Environmental Review, a Phase I Environmental Site Assessment (ESA), and a Phase II ESA for the proposed construction of the North 5th Street residential development. The development was proposed to be partially funded with U.S. Department of Housing and Urban Development (HUD) Home Investment Partnerships Program (HOME) funds, requiring compliance with the National Environmental Policy Act (NEPA) and HUD regulations 24 CFR 50.4, 58.5, and 58.6. Clark County and the City of North Las Vegas, as a part of the Clark County Community Development Advisory Committee (CDAC), requested the Environmental Review.

Based on BEC's review of HUD regulations and the project description, the level of environmental review was determined to be an Environmental Assessment. The environmental review covered Air Quality, Environmental Justice, Explosive and Flammable Concerns, Flood Insurance, Floodplain Management, Historic Preservation, Noise Abatement and Control, Site Contamination, Wetlands Protection, Wild and Scenic Rivers, Airport Hazards, Farmlands Protection, Coastal Barrier Resources, Coastal Zone Management, and Sole Source Aquifers. The environmental review also included multiple development, socioeconomic, community facilities and services, and natural features assessment factors.

BEC professionals compiled and reviewed available information on each of the elements, assessed the potential for impacts to those elements, identified required mitigation where applicable, and documented the review.

As part of the environmental review process, BEC drafted the Nevada State Historic Preservation Office (SHPO) Section 106 Consultation Package, which the Clark County CDAC submitted to SHPO for a concurrence determination.

BEC was also responsible for drafting comment and consultation request letters, public notices, and HUD funding request forms.

An Environmental Review Record was compiled which contained the data and documents supporting the determinations made in the Environmental Assessment.

Client

Ovation Development Corporation

Services

- ❖ NEPA

Project Highlights

- ❖ Clark County Approval of Environmental Assessment
- ❖ SHPO Concurrence with Section 106 Consultation Findings

Deliverables

- ❖ Comment Request Letters
- ❖ Draft Public Notice
- ❖ HUD Environmental Assessment
- ❖ Nevada SHPO Section 106 Consultation Package

Project Dates

- ❖ January - May 2019



View of the subject site facing northwest.

Source: BEC files.

Blue Diamond Senior Apartments HUD Environmental Review

Las Vegas, Nevada

BEC Environmental, Inc (BEC) was contracted by the Ovation Development Corporation (Ovation) to conduct an Environmental Review for the proposed construction of a 213-unit affordable senior rental community in southwest Las Vegas, Nevada. The development was proposed to be partially funded with U.S. Department of Housing and Urban Development (HUD) Home Investment Partnerships Program (HOME) funds, requiring compliance with the National Environmental Policy Act (NEPA) and HUD regulations 24 CFR 50.4, 58.5, and 58.6. Clark County, as a HUD designated Responsible Entity, requested the Environmental Review.

Based on BEC's review of HUD regulations and the project description, the level of environmental review was determined to be an Environmental Assessment. The environmental review covered Air Quality, Environmental Justice, Explosive and Flammable Concerns, Flood Insurance, Floodplain Management, Historic Preservation, Noise Abatement and Control, Site Contamination, Wetlands Protection, Wild and Scenic Rivers, Airport Hazards, Farmlands Protection, Coastal Barrier Resources, Coastal Zone Management, and Sole Source Aquifers. The environmental review also included multiple development, socioeconomic, community facilities and services, and natural features assessment factors. BEC professionals compiled and reviewed available information on each of the elements, assessed the potential for impacts to those elements, identified required mitigation where applicable, and documented the review.

As part of the environmental review process, BEC analyzed the potential impact of the project on the surrounding buildings, neighborhoods, and businesses, as well as existing vacant land. Based on the information gathered, BEC drafted the Nevada State Historic Preservation Office (SHPO) Section 106 Consultation Package, which Clark County, as the HUD designated Responsible Entity, submitted to SHPO for a concurrence determination.

BEC was also responsible for drafting comment and consultation request letters, tribal coordination and comment request letters, public notices, and HUD funding request forms.

An Environmental Review Record was compiled which contained the data and documents supporting the determinations made in the Environmental Assessment.

Client

Energy Systems, LLC

Services

❖ Biological

Deliverables

❖ Habitat Assessment

Project Dates

❖ April - May 2019

Environmental Compliance for Solar Project Development

Pahrump Valley, Nevada

BEC Environmental, Inc. (BEC) was contracted by Energy Systems, LLC (Energy Systems) to develop a habitat assessment and conduct environmental impact mitigation coordination with the US Fish and Wildlife Service (USFWS) for a proposed solar development project on 100 acres of vacant land in the Pahrump Valley in Nye County, Nevada.

BEC assisted the solar developer in understanding the potential regulatory requirements under the National Environmental Policy Act (NEPA) for a renewable energy project in the Pahrump Valley. BEC biologists also conducted a site survey of a 100-acre proposed solar development site to collect sufficient information about existing habitat composition and condition, and the presence of threatened or endangered species potentially impacted by the proposed project. BEC then discussed the findings with the USFWS staff to confirm survey protocols, documentation requirements, USFWS review processes, and timelines for various scenarios based on survey results.

BEC summarized the habitat assessment and coordination conducted with the USFWS in a summary document to assist Energy Systems with the permitting process in Nye County.



Yellow peppergrass observed during site survey.
Source: BEC files.

Client

Unicon, LLC

Services

- ❖ Botany Surveys

Project Highlights

Deliverables

- ❖ Noxious Weed Management

Project Dates

- ❖ May 2019

Unicon - Weed Management Plan

North Las Vegas , Nevada

BEC Environmental, Inc. (BEC) was contracted by Unicon, LLC (Unicon) to develop a Weed Management Plan per Nevada Department of Transportation (NDOT) requirements for an American with Disabilities Act (ADA) remediation of existing sidewalks and roadway medians in North Las Vegas, Nevada.

BEC biologists conducted surveys of the 16 transportation right of way locations identified in the remediation plans to classify populations of invasive and state defined noxious weeds. Based on the findings of the surveys, a Noxious Weed Management Plan, including the identification of weed species and extent of populations, descriptions of acceptable mitigation measures, and operating procedures around weeds, was drafted for Unicon's submittal to NDOT. Once approved by NDOT, Unicon was to implement the mitigation measures described in the Plan to eliminate populations of noxious weeds or reduce the potential for the spread of existing noxious weeds.



Sowthistle observed on sit.

Source: BEC files.



Puncturevine observed at northwest intersection.

Source: BEC files.

Project List

Client

CA Group, Inc.

Services

- ❖ Environmental Characterization

Project Highlights

- ❖ Phase I ESA
- ❖ Geotechnical investigations
- ❖ Summary reports
- ❖ Health and Safety Planning
- ❖ Compliance support

Deliverables

- ❖ Phase I ESA
- ❖ Baseline Geotechnical Report

Project Dates

- ❖ October 2017 - July 2019

I-15 Expansion at Tropicana Avenue Geotechnical Investigation and Phase I Environmental Site Assessment

Las Vegas, Nevada

BEC Environmental, Inc. was contracted by CA Group, Inc. to monitor preliminary geotechnical services and develop a Phase I Environmental Site Assessment (ESA) for the proposed expansion of Interstate 15 (I-15) at Tropicana Avenue in Las Vegas, Nevada. The scope of work included obtaining site access and encroachment permits, site control and health and safety planning, oversight of drilling and geotechnical activities, and developing the Phase I ESA.



Aerial view of I-15 at Tropicana Avenue.
Source: NDOT.

This project provided information critical to the planning, design, and construction of roadway improvements for the I-15 Corridor at the Tropicana Avenue Interchange. Once completed, these improvements will result in expanded traffic capacity to service the new Raiders Stadium Complex and other major Downtown Las Vegas redevelopment projects.



I-15 Feasibility Study Logo.
Source: NDOT.

Client

Harris Rebar, Las Vegas, Inc.

Services

- ❖ Permitting and Compliance Support

Deliverables

- ❖ SWPPP Post-Storm Event Inspection Reports
- ❖ SWPPP Quarterly Site Inspection Reports

Project Dates

- ❖ February 2019 - July 2019

Stormwater Pollution Prevention Plan Industrial Permit Support

Las Vegas, Nevada

BEC Environmental, Inc. (BEC) was contracted by Harris Rebar Las Vegas, Inc. (Harris Rebar) to conduct quarterly site inspections, post-storm event site inspections, annual comprehensive evaluations, and review the Harris Rebar Stormwater Pollution Prevention Plan (SWPPP). There were all requirements under the Harris Rebar Industrial Stormwater Permit issued by the Nevada Division of Environmental Protection (NDEP).

The review conducted by BEC of the existing Harris Rebar SWPPP included input on updates and adjustments to ensure the Plan complied with NDEP requirements. BEC Water Pollution Control Managers also coordinated with the Harris Rebar Environmental Manager to conduct required site inspections and stormwater runoff sampling after each storm event, provided guidance on maintaining best management practices for stormwater runoff. Response times for storm event inspections required a site inspection within 24 hours of the event.

In addition to site inspections and permit compliance oversight, BEC Water Pollution Control Managers also provided guidance on SWPPP compliance support for site employees on SWPPP general procedures, best management practices, purpose and maintenance, and good housekeeping practices.

Project List

Client

G2 Capital Devco, LLC

Contact

Britni Hain
Asset Manager
8363 West Sunset Road, Suite 120, Las Vegas, Nevada, 89113
(702) 325-1279
britni@g2capdev.com

Services

- ❖ Environmental Assessment

Highlights

- ❖ Collection of soil and groundwater samples
- ❖ Drilling oversight
- ❖ Report preparation

Deliverables

- ❖ Limited Phase II ESA (letter report of findings)

Project Dates

- ❖ June 2019 - July 2019

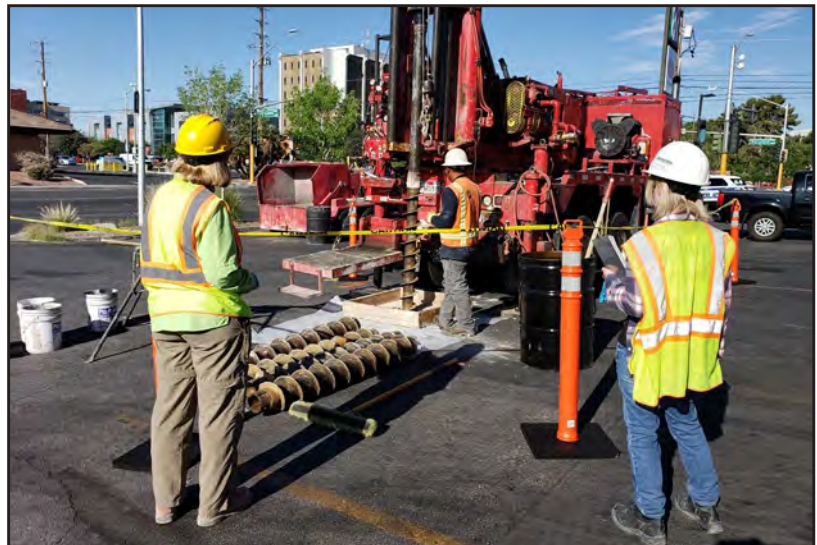


BEC scientists collecting soil samples from split spoon tubes.
Source: BEC files.

G2 Capital Devco Professional Services for a Phase II Environmental Site Assessment

Las Vegas, Nevada

Based on Stantec's review of historical records, the subject site use has included retail gasoline sales since approximately 1965. A release was reported at the gas station, and clean-up of the release was completed to the satisfaction of the Nevada Division of Environmental Protection (NDEP) in 2002. The purpose of the Phase II ESA was to explore for evidence of a release that may have occurred since soil and groundwater testing was last performed, approximately 17 years ago.



Drilling oversight.
Source: BEC files.

On June 18, 2019, BEC supervised drilling of four vertical soil boreholes, one near the Underground Storage Tanks, and three near the dispensing bay. The soil borings were completed using Standard Penetration Test (SPT) methods. Soils were observed for visual and olfactory evidence of contamination during drilling. Soil samples were also screened for volatile organic compounds (VOCs) using a photo ionization detector. Groundwater samples were collected as grab samples using disposable bailer tubes in three of the four boreholes.

Based on laboratory analytical results and field observations collected during this investigation, in conjunction with information obtained from Stantec's October 8, 2018, Limited Site Assessment Report for the subject site, neither soil nor groundwater sampling results indicated the presence of petroleum hydrocarbon contamination at the subject site at the locations investigated.

Client

MaryEllen C. Giampaoli,
Environmental Compliance Specialist

Services

- ❖ Environmental Characterization

Project Highlights

- ❖ No environmental conditions of concern were identified during the site conditions survey

Deliverables

- ❖ Site Conditions Summary
- ❖ Phase I Environmental Site Assessment

Project Dates

- ❖ November 2017 - August 2019

Spring Mountain Motor Resort Land Transfer Phase I Environmental Site Assessment and Site Conditions Survey *Pahrump, Nevada*

BEC Environmental, Inc. (BEC) was contracted by MaryEllen C. Giampaoli, Environmental Compliance Specialist, to perform an Environmental Assessment Site Conditions Survey and Phase I Environmental Site Assessments (ESAs) for the proposed land transfer of approximately two target land areas from Bureau of Land Management (BLM) to Spring Mountain Motor Resort and Country Club in Pahrump, Nevada.



Proposed raceway expansion site on BLM managed land.
Source: BEC files.



Vegetation observed on site.
Source: BEC files.

Subsequent to publication of a Notice of Intent/Notice of Realty Action in the Federal Register, BEC was tasked with preparing the two separate Phase I ESAs in advance of land sales for each of the target land areas. The first target area consisted of two separate blocks; the North Block, comprising 197 acres, and the East Block, comprising 370 acres, for a total of 567 acres. The second target area consisted of 68 acres located east of the Spring Mountain Motor Resort and County Club.

Based on the remote nature of both target land areas, BEC used GIS and real-time GPS tracking tools to confirm survey boundaries, assessment findings, and locations in the field.

Project List

Client

Clark County Desert Conservation Program

Services

- ❖ Wildlife Surveys

Project Highlights

- ❖ Confirmed presence of nine small mammal species within the BCCE
- ❖ Confirmed presence of one species being evaluated for future protection
- ❖ Captured 152 individual small mammals
- ❖ Developed and managed geodatabase for all data collected
- ❖ Presented findings in annual project review presentation to the Desert Conservation Program

Deliverables

- ❖ Work Plan
- ❖ Biennium Progress Report
- ❖ Final Project Data
- ❖ Final Project Report
- ❖ Final Project Review Summary
- ❖ Annual Project Review Presentation

Project Dates

- ❖ February - August 2019



Small mammal captured within the BCCE.

Source: BEC files.

Boulder City Conservation Easement Small Mammal Surveys

Eldorado Valley, Nevada

BEC Environmental, Inc. (BEC) was contracted by the Clark County Desert Conservation Program (DCP) to conduct small mammal surveys in support of DCP implementation of the Multiple Species Habitat Conservation Plan (MSHCP) and the Boulder City Conservation Easement (BCCE) Management Plan. The MSHCP and the BCCE Management Plan require adaptive management and monitoring of resources throughout the permitted areas. Given their role in the ecosystem, small mammals were identified as species for which initial surveys and monitoring may be appropriate. BEC was contracted to conduct the 2019 survey to update and augment the data collected under a previous survey.

BEC biologists developed a list of species expected to be present in the BCCE based on habitat and a review of previous DCP documents, readily available literature, and museum records for species captured in the region. BEC also developed a Work Plan using this information to identify the project approach, survey protocols, and survey schedule for review by DCP biologists.

BEC's survey focused on sampling isolated or unique habitats throughout the BCCE, in addition to collecting data within the more common habitat. Biologists conducted 16 single-night trap events, during which 58 transects of ten to 30 trap stations, with two traps per station, were set. A total of 2,240 trap nights were conducted within six habitat types at 14 locations within the BCCE.

Fourteen species of small mammals had been identified as potentially present within the BCCE based on geographic range, distribution, prior trapping records, habitat requirements, and habitat expected to be present within the BCCE. Two of these species were listed in the MSHCP as Evaluation Species: *Chaetodipus penicillatus* (desert pocket mouse) and *Dipodomys deserti* (desert kangaroo rat).

Nine species of small mammals were captured during the 2019 surveys, including the MSHCP Evaluation Species, *Dipodomys deserti*, and through habitat observations, biologists were able to draw inferences regarding potential presence of species not captured.

Project List

Client

Nevada Division of Environmental Protection, Brownfields Program

Contact

David Friedman
Brownfields Program Coordinator
901 South Stewart Avenue, Suite 4001, Carson City, Nevada
(775) 687-9385
dfriedman@ndep.nv.gov

Services

- ❖ Environmental Site Characterization
- ❖ Brownfields

Highlights

- ❖ Four Phase I Environmental Site Assessments (ESAs) completed to ASTM E1527-13 Standard

Deliverables

- ❖ 1100 D Street Phase I ESA
- ❖ 1122 D Street -024 Phase I ESA
- ❖ 1122 D Street -025 Phase I ESA
- ❖ 308 Jefferson Street Phase I ESA

Project Dates

- ❖ May 2019 - August 2019



Exterior view of 1100 D Street
Source: BEC files.

City of Las Vegas Historic West Side Phase I Environmental Site Assessments

Las Vegas, Nevada

BEC Environmental, Inc. (BEC) was contracted by Nevada Division of Environmental Protection, Brownfields Program (NBP) on behalf of the City of Las Vegas to perform four Phase I Environmental Site Assessments (ESAs) in support of revitalization efforts in the Historic Westside of the City of Las Vegas, Nevada.



Exterior view of 308 Jefferson Street
Source: BEC files.

BEC reviewed lists compiled by federal and state agencies that identified sites known or suspected to be contaminated, and facilities which handle hazardous substances or wastes. A computer database firm was used to provide listings of sites within the ASTM standard search radius which included information from, but was not limited to, U.S. Environmental Protection Agency (EPA)-designated Superfund sites, Superfund Enterprise Management Systems (SEMS) sites, Resource Conservation and Recovery Act (RCRA) facilities, and Nevada Division of Environmental Protection (NDEP) lists of Corrective Actions cases, leaking underground storage tank (UST) cases, and registered UST owners. BEC reviewed geologic and hydrogeologic information to assess soil characteristics and ground water occurrence, relative depth, quality, and uses. BEC also reviewed historical aerial photography; U.S. Geological Survey maps; and building department, NDEP, ownership, zoning/land use, and any prior assessment usage records.

BEC performed field visits to each site paying particular attention to the possible presence of unauthorized waste disposal, USTs, 55-gallon drums, sumps and clarifiers, wells, septic systems, oil-water separators and leachfields, and polychlorinated biphenyls (PCB)-containing electrical transformers. Surrounding land use was evaluated for industrial/commercial activity and chemical usage, and for the presence of nearby facilities with readily identifiable USTs.

Project List

Client

White Pine County

Services

- ❖ Environmental Assessment

Project Highlights

❖

Deliverables

- ❖ Limited Asbestos Survey
- ❖ Drafted outreach letters to tribes and interested parties
- ❖ Phase I Environmental Site Assessment
- ❖ SHPO Consultation Package
- ❖ Environmental Assessment

Project Dates

- ❖ 2018 - Septemebr 2019

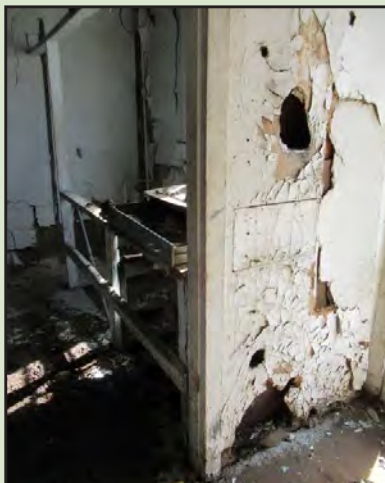
Ely Old Shop Building Environmental Site Assessment and Asbestos Survey

Ely , Nevada

BEC was retained by White Pine County to perform a Phase I Environmental Assessment (ESA) of the Ely Old Shop Building, located on a portion of APN 002-027-12. The Phase I ESA was prepared as part of a Community Development Block Grant (CDBG) Environmental Review, funded by the US Department of Housing and Urban Development (HUD). According to the White Pine County Assessor, the site was comprised of a 0.17-acre parcel with one 1,440 square foot building described as the Ely Old Shop Building.

This Phase I ESA was to identify any Recognized Environmental Conditions (RECs), Controlled Recognized Environmental Conditions (CRECs), Historical Recognized Environmental Conditions (HRECs), and/or Business Environmental Risks (BERs) that may be present due to past or present land use of the subject site and/or properties in the subject site vicinity.

BEC used the services of a computer database firm to provide a listing of sites within the ASTM standard search distance around the site.



Ely Old Shop Building Interior
Source: BEC files.



Ely Old Shop Building Exterior
Source: BEC files.

Project List

Client

Broadbent and Associates

Services

- ❖ Botanical Surveys
- ❖ Wildlife Surveys

Project Highlights

- ❖ Quick mobilization for field surveys
- ❖ Identification and mapping of noxious weed species present on site

Deliverables

- ❖ Biological Survey Plan
- ❖ Biological Survey Report

Project Dates

- ❖ May - September 2019

LifeStyle Homes Biological Survey

Washoe County, Nevada

BEC Environmental, Inc. (BEC) was contracted by Broadbent and Associates, Inc. (Broadbent) to provide biological resources support for the proposed construction of access roads for the development of a community of homes in Lemmon Valley, Washoe County, Nevada, north of Reno. The roads would provide access from existing roads, across lands managed by the Bureau of Land Management (BLM), to a proposed housing community to be developed on private land. Broadbent was contracted to assist their client with the planning and permitting requirements, which included the BLM right-of-way leasing process and the associated environmental reviews for the access roads.

BEC reviewed available information on the project area and biological resources potentially present in the area or otherwise impacted by the proposed project. BEC developed a draft Biological Survey Plan for review by the BLM biologists. Comments were addressed and the final Plan was submitted.

BEC biologists and a BLM-approved botanist conducted surveys of the parcels proposed for the project, as outlined in the Survey Plan. The biologists characterized the habitat in the area, conducted targeted surveys for rare or protected plant species suspected to be in the area, conducted migratory bird surveys, and documented plant, including noxious weeds, and animal species in the area during the surveys. The team developed and submitted a Biological Survey Report summarizing the findings of the survey.



Erythranthe suksdorfii, found on site

Source: BEC files.

Client

C & S Waste Solutions of Nevada, Inc.

Services

- ❖ Permitting and Compliance Support

Project Highlights**Deliverables**

- ❖ Summary on the status of water rights
- ❖ Permit requirements

Project Dates

- ❖ April 2019 - September 2019

On-Call Environmental Compliance Support

Clark and Nye Counties, Nevada

BEC Environmental, Inc. (BEC) entered into a Master Services Agreement with C&S Waste Solutions of Nevada, Inc. (C&S) for professional environmental services. These services included tracking permit information for several organizations affiliated with C&S Waste, including Desert Recycling and Creekside Investments.

BEC provided oversight and assistance with permitting requirements for a scrap metal recycling facility in Las Vegas, Nevada; water rights research and information summaries on the status of water rights related to Creekside Investment operations in Nye County, Nevada; and professional recommendations associated with regulatory research requested by C&S.

Project List

Client

Ventajas, LLC

Contact

William (Bill) Garrett
Owner

3430 E. Russell Road, Suite 301-38
(702) 525-8834
ventajas@aol.com

Services

- ❖ Desert Tortoise Presence/Absence Survey
- ❖ Survey Summary Reporting

Highlights

- ❖ USFWS Desert Tortoise Pre-project Protocol Surveys

Deliverables

- ❖ Survey Summary Report

Project Dates

- ❖ September 2019

Sloan BLM Right-of-Way Desert Tortoise Surveys

Sloan, Nevada

BEC Environmental, Inc. (BEC) was contract by Ventajas, LLC (Ventajas) to comply with a requirement for Mojave desert tortoise surveys. Ventajas was coordinating with the Bureau of Land Management (BLM) for the approval of a right-of-way (ROW) grant application which would allow access across BLM-managed land between two privately-owned parcels of land for construction purposes. Two BEC Biologists performed a presence/absence survey for the Federally Threatened Mojave desert tortoise within the 5.11-acre ROW located in Sloan, Clark County, Nevada. Surveys followed the U.S. Fish and Wildlife Service (USFWS) protocol for pre-project presence/absence surveys, and were conducted by biologists walking linear transects across the area achieving 100-percent coverage, documenting desert tortoises and signs of their presence including burrows, scat, and carcasses. The results of each transect were recorded on USFWS Desert Tortoise Pre-Project Survey Data Sheets and GPS tracks were collected to document coverage of the site.

Biologists utilized data collected in the field to draft a Survey Summary Report to document and present findings for Ventajas, their client, and the BLM. The summary report included a general project description, a survey area description including general characteristics and habitat observed on site, survey methodology and results, map figures, and photos of the site and observed tortoise signs.



Biologist inspecting tortoise carcass.
Source: BEC files.



Portion of the survey area.
Source: BEC files.

Client

Nevada Housing Division

Services

- ❖ NEPA

Project Highlights

- ❖ Approval for use of National Housing Trust Fund (NHTF).

Deliverables

- ❖ Documentation Environmental Provisions

Project Dates

- ❖ July 2019 - September 2019

Archie C. Grant Park Renovation

Las Vegas, Nevada

BEC Environmental, Inc (BEC) was contracted by Nevada Housing Division to draft an Environmental Provision document for the rehabilitation of existing low-income housing. The environmental provisions analysis was required by the US Department of Housing and Urban Development (HUD) under 24 Code of Federal Regulation (CFR) 93.301(f)(2) for the use of funding from the National Housing Trust Fund (HTF).

The environmental provision analysis covered Historic Preservation, Farmlands, Airport Zones, Coastal Barrier Resources, Coastal Zone Management, Floodplains Explosives and Hazards, Contamination, Wetlands, Noise, Endangered Species, Wild and Scenic Rivers, Safe Drinking Water, and Sole Source Aquifers. BEC professionals compiled and reviewed available information on each of the elements, assessed the potential for impacts to those elements, identified required mitigation where applicable, and documented the review.

As part of the Historic Preservation Review process, BEC analyzed the potential impact of the project on the surrounding buildings, neighborhoods, and businesses, as well as existing vacant land.

An Environmental Provision was compiled which contained the data and documents supporting the determinations made.



Aerial view of Archie Grant Park.
Source: BEC files.

Project List

Client

SWCA Environmental Consultants, Inc.

Contact

Richard Villagran
Project Manager, Authorized Biologist
7210 Placid St.
Las Vegas, NV 89119
(702) 248-3880 ext 6520
Richard.Villagran@SWCA.com

Services

- ❖ Desert Tortoise Clearance Surveys and Monitoring
- ❖ Nesting Bird Surveys and Monitoring
- ❖ Cactus and Yucca Monitoring

Highlights

- ❖ Preconstruction resource surveys
- ❖ Compliance with three separate Biological Opinions
- ❖ Protection of biological resources including Mojave desert tortoise, migratory birds, and cactus and yucca
- ❖ Responsiveness to variable project schedule, including night/weekend work

Deliverables

- ❖ Daily Monitoring Reports

Project Dates

- ❖ August 2018 - October 2019



Protected cactus species on ROW.
Source: BEC files.

Sloan Canyon Switch Station Construction and 230kv Transmission Line Upgrade Environmental Monitoring

Clark County and Nye County, Nevada

BEC Environmental Inc. (BEC) was contracted by SWCA Environmental Consultants (SWCA) to assist with environmental monitoring associated with the new Bob/Sloan Canyon Switch Station and associated access road, as well as 60 miles of an existing 230 kilovolt (kV) transmission line and maintenance roads spanning from the Switch Station in Eldorado Valley in Clark County, Nevada to a substation in the Pahrump Valley in Nye County, Nevada.

GridLiance, LLC (GridLiance) was upgrading and reconstructing over 60 miles of transmission line and associated maintenance roads crossing over the McCullough Mountain Range, as well as constructing a new switch station and an associated paved access road. In accordance with the Bureau of Land Management (BLM) right-of-way (ROW) Grants and the associated Biological Opinions, GridLiance was required to provide qualified individuals to monitor construction activities to prevent the injury or death of desert tortoises and prevent disturbance of other sensitive biological resources including migratory birds and their nests, cacti, and yucca during the construction and maintenance activities. SWCA had been contracted to provide and manage the personnel for this monitoring effort. Due to the size, duration, and schedule of the effort, BEC provided desert tortoise monitors and authorized biologists to be available as needed to support SWCA. The support included conducting preconstruction clearance surveys in advance of the construction crews; monitoring to ensure construction activities remained within the authorized disturbance boundaries and avoided environmentally sensitive areas; and identification and protection of tortoises, tortoise burrows, and tortoise nests potentially impacted by the construction activities.



Desert tortoise observed along project right-of-way.
Source: BEC files.

Project List

Client

Kleinfelder, Inc.

Services

❖ Cleanup Planning & Oversight

Deliverables

❖ Daily Field Reports

Project Dates

❖ March 2019 - November 2019

Symphony Park CEM Oversight

Las Vegas, Nevada

BEC was contracted by Kleinfelder, Inc. (Kleinfelder) to perform Certified Environmental Manager (CEM) oversight of excavation activities at the Symphony Park Brownfields Site in Las Vegas, Nevada. The Symphony Park site was one of the first brownfield sites in Nevada and continues to be redeveloped.



Contaminated soil placed on visqueen for temporary storage pending laboratory analytical results.

Source: BEC Files



Utility installation in trenches during construction activities
Source: BEC files.

BEC reviewed previous environmental site characterizations and construction plans and worked with Kleinfelder to develop maps of areas to facilitate appropriate soil disposition during site excavation and grading activities. BEC performed daily oversight of excavation and fill activities to ensure compliance with the site Soil and Groundwater Management Plan (SGMP). BEC maintained daily field reports, including georeferenced field observations; photographs; stockpile sizes, locations, and sources; and sampling information. Additionally, BEC facilitated communications with the on-site engineer, on-site construction specialist, and Kleinfelder technical staff located in California. Field sampling was conducted as required by on-site observations to maintain compliance with the SGMP.

Client

Clark County Social Services

Services

- ❖ NEPA

Project Highlights

- ❖ Clark County Approval of Environmental Assessment
- ❖ SHPO Concurrence with Section 106 Consultation Findings

Deliverables

- ❖ Draft Public Notice
- ❖ HUD Environmental Review CEST
- ❖ Nevada SHPO Section 106 Consultation Package

Project Dates

- ❖ November 2019 - January 2020



View of Old Mill.
Source: BEC files.

Old Mill Village Apartment Rehabilitation

Nevada

BEC Environmental, Inc (BEC) was contracted by Clark County Social Service, on behalf of the U.S. Department of Housing and Urban Development (HUD), for the renovation of the Old Mill Apartments . The development was proposed to be funded with U.S. Department of Housing and Urban Development (HUD) HOME Investment Partnership Program (HOME) Grant funds, under Title II of the Cranston-Gonzalez National Affordable Housing Act.

Based on BEC's review of HUD regulations and the project description, the level of environmental review was determined to be an Environmental Review for Activity/ Project that is Categorically Excluded Subject (CEST) to Section 58.5. The CEST covered Airport Hazards, Coastal Barrier Resources, Flood Insurance, Clean Air, Coastal Zone Management, Contamination and Toxic Substances, Endangered Species, Explosive and Flammable Hazards, Farmlands Protection, Floodplain Management, Historic Preservation, Noise Abatement and Control, Sole Source Aquifers, Wetlands Protection, Wild and Scenic Rivers, and Environmental Justice. BEC professionals compiled and reviewed available information on each of the elements, assessed the potential for impacts to those elements, identified required mitigation where applicable, and documented the review.

As part of the Historic Preservation review process, BEC analyzed the potential impact of the project on the surrounding buildings, neighborhoods, and businesses, as well as existing vacant land. Based on the information gathered, BEC drafted the Nevada State Historic Preservation Office (SHPO) Section 106 Consultation Package, which Clark County, as the HUD designated Responsible Entity, submitted to SHPO for a concurrence determination. BEC was also responsible for drafting comment and consultation request letters, tribal coordination and comment request letters, public notices, and HUD funding request forms.

An Environmental Review for the CEST project was compiled which contained the data and documents supporting the determinations made.

Project List

Client

Broadbent and Associates, Inc.

Services

- ❖ Paleontological Resources Survey

Project Highlights

- ❖ Paleontological Resources Site Survey
- ❖ Mitigation Plan

Deliverables

- ❖ Paleontological Resources Survey Report

Project Dates

- ❖ May 2020

Geofortis Pozzolan Mines Paleontological Resources Survey Long Valley, California



Pozzolan Mine Stratigraphy.
Source: BEC files.

Broadbent and Associates, Inc. contracted BEC Environmental, Inc. (BEC) to conduct a paleontological resources survey of the proposed pozzolan mines in Long Valley, Lassen County, California, to assess the potential for impacting sensitive resources.

Prior studies in the region confirmed Long Valley contained extensive vertebrate fossil resources. These studies identified the fossiliferous stratigraphy as the Hallelujah Formation, a Hemphillian age (9.0-4.8 ma) lacustrine environment. BEC's paleontologist coordinated with the Bureau of Land Management (BLM) regional paleontologist to confirm expectations and establish protocols, interviewed the experts on this formation to understand the significance of the resources in the area, and compiled data from the individuals and their reports to develop a field study plan in accordance with BLM guidelines and federal regulations. After obtaining approval from local and state BLM resource specialists, BEC's paleontologist conducted a field survey of the area, documented the likely fossiliferous layers potentially affected, and worked with the BLM to develop appropriate mitigation measures.

The resulting Paleontological Resources Survey Report was accepted by the BLM and proposed a paleontological mitigation plan for future mining operations.



Bone fragment discovered during field survey.
Source: BEC files.

Client

Nevada Housing Division & City of Las Vegas

Services

- ❖ NEPA

Project Highlights

- ❖ Clark County Approval of Environmental Assessment
- ❖ SHPO Concurrence with Section 106 Consultation Findings

Deliverables

- ❖ Draft Public Notice
- ❖ HUD Environmental Assessment
- ❖ Nevada SHPO Section 106 Consultation Package

Project Dates

- ❖ August 2019 - May 2020



Intersection of Decatur and Alta.
Source: BEC Files.

Decatur and Alta Apartments Construction Environmental Review

Las Vegas, Nevada

BEC Environmental, Inc (BEC) was jointly contracted by Nevada Housing Division and the City of Las Vegas to conduct an Environmental Review for the proposed construction of the affordable 480-unit senior and family housing, Decatur and Alta Apartments. The development was proposed to be funded with U.S. Department of Housing and Urban Development (HUD) using federal HOME Investment Partnership Program (HOME) Grant funds, under Title II of the Cranston-Gonzalez National Affordable Housing Act, requiring compliance with the National Environmental Policy Act (NEPA) and HUD regulation 24 CFR 50.4, 58.5, and 58.6.

Based on BEC's review of HUD regulations and the project description, the level of environmental review was determined to be an Environmental Assessment. The environmental review covered Air Quality, Environmental Justice, Explosive and Flammable Concerns, Flood Insurance, Floodplain Management, Historic Preservation, Noise Abatement and Control, Site Contamination, Wetlands Protection, Wild and Scenic Rivers, Airport Hazards, Farmlands Protection, Coastal Barrier Resources, Coastal Zone Management, and Sole Source Aquifers. The environmental review also included multiple development, socioeconomic, community facilities and services, and natural features assessment factors. BEC professionals compiled and reviewed available information on each of the elements, assessed the potential for impacts to those elements, identified required mitigation where applicable, and documented the review.

As part of the Historic Preservation review process, BEC analyzed the potential impact of the project on the surrounding buildings, neighborhoods, and businesses, as well as existing vacant land. Based on the information gathered, BEC drafted the Nevada State Historic Preservation Office (SHPO) Section 106 Consultation Package, which Clark County, as the HUD designated Responsible Entity, submitted to SHPO for a concurrence determination. BEC was also responsible for drafting comment and consultation request letters, tribal coordination and comment request letters, public notices, and HUD funding request forms for both the NHD and City of Las Vegas.

An Environmental Review Record was compiled which contained the data and documents supporting the determinations made.

Project List

Client

Broadbent and Associates, Inc.

Contact

Lonnie Roy
Principal Engineer/Vice President
8 West Pacific Avenue
Henderson, NV 89015
(775) 563-0600

Services

- ❖ Biological

Highlights

- ❖ BEC biologists identified no special status wildlife species are likely to be affected by the project.
- ❖ BEC assisted in collecting biological information for the area from multiple agencies.

Deliverables

- ❖ Biological Evaluation

Project Dates

- ❖ August 2018 - July 2020



Plants observed during survey.
Source: BEC files.

Anaconda Mine Land Transfer Biological Review

Lyon County, Nevada

BEC Environmental, Inc. (BEC) was contracted by Broadbent and Associates, Inc. (Broadbent) to provide biological resources support for the proposed transfer of Bureau of Land Management (BLM)-managed lands adjacent to the Anaconda Mine in Lyon County, Nevada. Broadbent was contracted to assist the client with the planning and permitting requirements, which include the BLM realty process and the associated environmental reviews.



Mine tailings pile.
Source: BEC files.

BEC reviewed available information on the project area and wildlife resources potentially present in the area or otherwise impacted by the proposed project. BEC conducted a site visit then developed a draft and final Biological Evaluation for review by the BLM biologists.

Client

Clark County Desert Conservation Program

Contact

Steffanie Ferrazzano
Biologist/Project Manager
Clark County Department of
Environmental and Sustainability
4701 W. Russel Road, Suite 200
Las Vegas, NV 89118
(702) 455-6386
stefanie.ferrazzano@clarkcountynv.gov

Services

- ❖ Wildlife Surveys (Small Mammal Surveys)

Highlights

- ❖ Confirmed presence of 11 small mammal species within the Riparian Reserve Units
- ❖ Captured 929 individual small mammals
- ❖ Implemented COVID-19 safety protocol for all field activities

Deliverables

- ❖ Work Plan
- ❖ Biennium Progress Report
- ❖ Final Project Data
- ❖ Final Project Report
- ❖ Final Project Review Summary

Project Dates

- ❖ February 2020 - August 2020



Biologist collecting field data.
Source: BEC files.

Riparian Small Mammal Surveys

Muddy River and Virgin River, Clark County, Nevada

BEC Environmental, Inc. (BEC) was contracted by the Clark County Desert Conservation Program (DCP) to conduct small mammal surveys in support of DCP implementation of the Multiple Species Habitat Conservation Plan (MSHCP) and the Riparian Reserve Units Management Plan. The Riparian Reserve Units are located along the Muddy and Virgin Rivers in Clark County, Nevada and broken down further into sites (Muddy River, Mormon Mesa, Riverside, Bunkerville West and East, and Mesquite West) ranging in size from 1 to 100 acres. DCP has proposed varying levels of restoration of the Reserve Units to reestablish the riparian ecosystem. Given their role in the ecosystem, small mammals were identified as an indicator species for which initial surveys and monitoring may be appropriate.

BEC biologists developed a list of 21 species with the potential to occur in the Reserve Units based on geographic range, distribution, prior trapping records in the region, habitat requirements, and habitat expected to be present, including two species listed in the MSHCP as Evaluation Species: *Chaetodipus penicillatus sobrinus* (desert pocket mouse) and *Dipodomys deserti* (desert kangaroo rat). Using this information, BEC developed a Work Plan to establish the project approach, survey protocols, and survey schedule.

The survey sampled each of the habitats encountered in the Reserve Units using an agreed upon trap density per parcel. Biologists conducted 17 single-night trap events within six separate trap sessions, during which 93 transects of 20 double-trap stations were set, for a total of 3,720 trap-nights across the Reserve Units.

Eleven of the 21 species of small mammals with potential to be present were captured or observed during the surveys, including the MSHCP Evaluation Species, *Chaetodipus penicillatus sobrinus*. Through observations of sign, biologists were able to draw inferences regarding potential presence of species not captured.



Chaetodipus penicillatus sobrinus captured by biologists.
Source: BEC files.

Project List

Client

The DeSola Group

Services

- ❖ Section 106 Consultation Package
- ❖ Categorical Exclusion Subject to Federal Laws and Authorities Analysis

Project Highlights

- ❖ Environmental Review completed on time and under budget
- ❖ Developer education on the HUD Environmental Review process and regulations
- ❖ Nevada Housing Divisions coordination

Deliverables

- ❖ One (1) Draft Section 106 Consultation Checklist and Cover Sheet
- ❖ One (1) Set of invitation to consult/comment letters
- ❖ One (1) Draft CEST
- ❖ One (1) Final CEST

Project Dates

- ❖ April 2020 - August 2020



View of interior of the Subject Site.
Source: BEC Files

Parkway Plaza Apartments Environmental Review

Carson City, Nevada

BEC Environmental, Inc. (BEC) provided professional services for development of a U.S. Housing and Urban Development (HUD) required environmental review for rehabilitation of the Parkway Plaza Apartments in Carson City, Nevada. The DeSola Group required the preparation of an Environmental Review (ER), including a Categorical Exclusion Subject To (CEST) federal laws and authorities referenced at 24 Code of Federal Regulations (CFR) 58.5, for two sites:

- ❖ Assessor's Parcel Number (APN) 002-39-107, 20 West College Parkway, Carson City, Nevada.
- ❖ APN 002-39-106, 777 Silver Oak Drive, Carson City, Nevada.

The project was partially funded with HUD Home Investment Partnerships Program (HOME) funds, requiring compliance with the National Environmental Policy Act (NEPA) and HUD regulations 24 CFR 50.4, 58.5, and 58.6. Based on BEC's review of HUD regulations and the project description, the level of environmental review was determined to be a Categorical Exclusion Subject to (CEST) Federal Laws and Authorities analysis. The CEST covered Air Quality, Environmental Justice, Explosive and Flammable Concerns, Flood Insurance, Floodplain Management, Historic Preservation, Noise Abatement and Control, Site Contamination, Wetlands Protection, Wild and Scenic Rivers, Airport Hazards, Farmlands Protection, Coastal Barrier Resources, Coastal Zone Management, and Sole Source Aquifers.

BEC professionals compiled and reviewed available information on each of the elements, assessed the potential for impacts to those elements, identified required mitigation where applicable, and documented the review. BEC also completed a Section 106 Consultation Package for the Parkway Plaza Apartments as part of the CEST. The Nevada Housing Division (the Responsible Entity) submitted the Section 106 package to the Nevada State Historic Preservation Office (SHPO) for a concurrence with a finding of No Adverse Effect on Historic Properties.



Southeast portion of the Subject Site.
Source: BEC Files

Project List

Client

DesertLink, LLC
(A subsidiary of LS Power, Inc.)

Contact

Luke Papez
Project Manager
16150 Main Circle Drive, Suite 310
Chesterfield, MO 63107
(636) 534-3233

Services

- ❖ Provide general support and technical guidance to resource specialists as needed.
- ❖ Review incident reports, including impacts to resources.
- ❖ Track permit obligations.
- ❖ Compile data and draft annual permit reports.
- ❖ Assist Owner with consultation and coordination with resource agencies.
- ❖ Liaison between on-site BLM Representative, owner, construction contractor, environmental monitors as needed.
- ❖ Facilitate right-of-way deviation requests.
- ❖ Review construction schedules and environmental staffing levels.
- ❖ Review and address compliance issues.
- ❖ Advise owner, construction contractor, and environmental monitors as needed.

Deliverables

- ❖ BLM Annual Report of Compliance Activities
- ❖ Nevada Division of Forestry Conditional Use Permit for Critically Endangered Plants Weekly/Quarterly Reports
- ❖ Right-of-Way Deviation Request Packages
- ❖ Reviews, comments, insight to Owner on permits, reports, incidents, and agency consultation.

Project Dates

- ❖ August 2018 – September 2020

Harry Allen-Eldorado Transmission Line Owner's Environmental Representative

Eldorado Valley and Apex, Nevada

BEC Environmental, Inc. (BEC) was contracted by DesertLink, LLC (Desert Link, a subsidiary of LS Power, Inc.) to support construction of a 60-mile-long, 500-kilovolt (kV) line connecting the Harry Allen Substation near Apex, northeast of Las Vegas, to the Eldorado Substation in Eldorado Valley, south of Boulder City. The line spans across lands managed by the cities of Boulder City and Henderson, the U.S. Bureau of Land Management, and the U.S. Bureau of Reclamation, and crosses transportation and utility corridors, jurisdictional waterways, cultural resources, and habitat for several rare or protected species.



Site construction activities.
Source: BEC files.

The multi-jurisdictional land management and multiple sensitive resources resulted in numerous conservation and mitigation measures, stipulations, and other conditions imposed on the project. BEC provided an environmental specialist experienced in working with the agencies and transmission line contractors, who also had knowledge of the protected resources and other sensitivities of construction in the region to be the Owner's representative for environmental issues and concerns (OER). The OER ensured compliance monitors were efficiently staffed, provided technical guidance as warranted, facilitated requests for project deviations, reviewed resource reports, reviewed compliance concerns, drafted periodic reports, and provided liaison support for Desertlink, the Contractor, and the monitors with the BLM on-site representative. BEC assisted DesertLink in consultations with resource agencies related to resource impacts and conservation measures. The project was completed with relatively few compliance issues, resulting in appreciation from the resource agencies on the conservation measures implemented and thorough communication of the status of resources.

Project List

Client

Town of Pahrump

Contact

Samantha Kramer, Nye County
Grant Administrator
2101 E. Calvada Blvd., Suite 200
Pahrump, NV 89048
(775) 751-7091

Services

- ❖ Environmental Site Characterization
- ❖ NEPA

Highlights

- ❖ BEC biologist recommended and proponent concurred with determination of no effect on protected species based on the proposed project.
- ❖ SHPO concurred with a finding of No Historic Properties Affected.
- ❖ Brownfields funds were leveraged to facilitate efficient completion of the Environmental Review.

Deliverables

- ❖ Phase I Environmental Site Assessment, October 7, 2019
- ❖ Biological Evaluation, January 6, 2020
- ❖ State Historic Preservation Office Section 106 Checklist, April 2020
- ❖ Environmental Assessment, July 17, 2020

Project Dates

- ❖ September 2019 - September 2020



Additional drainage channel.
Source: BEC files.

Pahrump Fairgrounds Development Area

Pahrump, Nye County, Nevada

BEC Environmental, Inc. (BEC) was retained by the Town of Pahrump to perform an Environmental Assessment (EA) and Phase I Environmental Site Assessments (ESAs) of the Pahrump Fairgrounds Development Area, located at 4670 South Highway 160, Pahrump, Nevada 89048, within a portion of Nye County Assessor's Parcel Number (APN) 027-741-01. The 75.5-acre project area, within the larger Pahrump Fairgrounds parcel, included the construction of a stormwater detention basin, the extension of a drainage channel to the basin and additional drainage channels, a parking lot, and a community development building. The project was being funded, in part, by the United States Department of Housing and Urban Development (HUD) Community Development Block Grant (CDBG) program. BEC prepared the Phase I ESA in conformance with the scope and limitations of ASTM Standard E 1527-13 for the subject site. The assessment revealed no evidence of recognized environmental conditions in connection with the property.

BEC oversaw development of a Cultural Survey and prepared the draft Section 106 Consultation Package for the Pahrump Fairgrounds Development Area project. Nye County, on behalf of the Town of Pahrump, submitted the Section 106 package to the Nevada State Historic Preservation Office (SHPO) with a finding of No Historic Properties Affected. The SHPO concurred with this finding. BEC evaluated the potential presence of threatened and endangered species within the project area. Presence-absence surveys were conducted for Mojave desert tortoises within the proposed project area and on the portions of the adjacent parcel considered potential Mojave desert tortoise habitat by the U.S. Fish and Wildlife Service. The results were summarized within a Biological Evaluation and Nye County and the State of Nevada concurred with a Finding of No Effect.

BEC incorporated the findings of these studies and evaluated the potential impacts on other required compliance and environmental assessment factors in a draft Environmental Assessment. As part of the Environmental Review package, BEC also drafted comment and consultation request letters, tribal outreach letters, and public notices.



Pahrump Fairgrounds Development Area.
Source: BEC files.

Client

Clark County Social Services

Services

- ❖ NEPA

Project Highlights

- ❖ Clark County Approval of Environmental Assessment
- ❖ SHPO Concurrence with Section 106 Consultation Findings

Deliverables

- ❖ Draft Public Notice Letters
- ❖ HUD Environmental Assessment
- ❖ Nevada SHPO Section 106 Consultation Package

Project Dates

- ❖ August 2019 - September 2020



View of SMRYC south elevation.
Source: BEC files.

Spring Mountain Youth Residential Center

Las Vegas, Nevada

BEC Environmental, Inc (BEC) was contracted by Clark County Social Service to conduct an Environmental Review for the proposed demolish and rebuild of the one-story Spring Mountain Residential Youth Center (SMRYC). The development was proposed to be funded with U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant (CDBG), requiring compliance with the National Environmental Policy Act (NEPA) and HUD regulation 24 CFR 50.4, 58.5, and 58.6. Clark County, as a HUD designated Responsible Entity, requested the Environmental Review.

Based on BEC's review of HUD regulations and the project description, the level of environmental review was determined to be an Environmental Assessment. The environmental review covered Air Quality, Environmental Justice, Explosive and Flammable Concerns, Flood Insurance, Floodplain Management, Historic Preservation, Noise Abatement and Control, Site Contamination, Wetlands Protection, Wild and Scenic Rivers, Airport Hazards, Farmlands Protection, Coastal Barrier Resources, Coastal Zone Management, and Sole Source Aquifers. The environmental review also included multiple development, socioeconomic, community facilities and services, and natural features assessment factors. BEC professionals compiled and reviewed available information on each of the elements, assessed the potential for impacts to those elements, identified required mitigation where applicable, and documented the review.

As part of the Historic Preservation review process, BEC analyzed the potential impact of the project on the surrounding buildings, neighborhoods, and businesses, as well as existing vacant land. Based on the information gathered, BEC drafted the Nevada State Historic Preservation Office (SHPO) Section 106 Consultation Package, which Clark County, as the HUD designated Responsible Entity, submitted to SHPO for a concurrence determination. BEC was also responsible for drafting comment and consultation request letters, tribal coordination and comment request letters, public notices, and HUD funding request forms.

An Environmental Review Record was compiled which contained the data and documents supporting the determinations made in the Environmental Assessment.

Project List

Client

MaryEllen C. Giampaoli,
Environmental Compliance Specialist

Services

- ❖ Recycling and Solid Waste Management Planning
- ❖ Environmental Characterization

Project Highlights

- ❖ Document review/update for landfill operations
- ❖ Landfill and facility inspections
- ❖ Document development

Deliverables

- ❖ Chain of Custody
- ❖ Lab Reports
- ❖ Discussion of findings

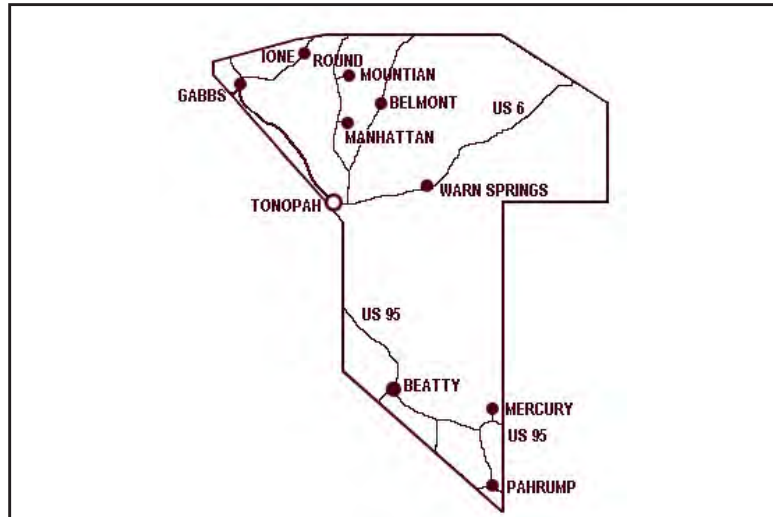
Project Dates

- ❖ March 2014 - November 2020

Nye County Public Works Support

Nye County, Nevada

BEC Environmental, Inc. (BEC) was subcontracted by MaryEllen C. Giampaoli, Environmental Compliance Specialist, to perform various tasks for the Nye County Public Works Department.



Map of Nye County with landfill facilities identified by the star.
Source: Adapted from ww.bprlicenseplates.com/Nevada

BEC's primary roles in the project are:

- Review and update documents associated with Nye County landfill operations.
- Perform on-site inspections of landfills and other facilities.
- Develop reports to document findings of on-site inspections.

BEC collected methane concentration readings using air monitoring instruments from landfills in Pahrump, Nevada, and Tonopah, Nevada. In addition, BEC assisted with preparation and response comments to Nevada Division of Environmental Protection (NDEP) inspection reports.



Pahrump, Nevada landfill.
Source: BEC files.

Project List

Client

Foresight Companies, LTD.

Services

- ❖ Section 106 Consultation Package
- ❖ Environmental Assessment
- ❖ HUD, Clark County, and City of North Las Vegas coordination

Project Highlights

- ❖ Environmental Review completed on time and under budget
- ❖ Developed education on the HUD Environmental Review process and regulations
- ❖ Joint Responsible Entity coordination

Deliverables

- ❖ One (1) Draft Section 106 Consultation Checklist and Cover Sheet
- ❖ One (1) Set of invitation to consult/comment letters
- ❖ One (1) Draft EA
- ❖ One (1) Set of invitation to comment letters
- ❖ One (1) Final EA
- ❖ One (1) Draft Public Notice

Project Dates

- ❖ July 2020 - December 2020



Southern boundary of Subject Site.
Source: BEC Files

Lake Mead West Apartments Environmental Review

North Las Vegas, Nevada

BEC Environmental, Inc. (BEC) provided professional services for development of a U.S. Housing and Urban Development (HUD) required environmental review for construction of the Lake Mead West Apartments in North Las Vegas, Nevada. Foresight Companies, LTD. required the completion of an Environmental Review (ER), including an Environmental Assessment (EA) in accordance with HUD Regulations at 24 Code of Federal Regulations (CFR) 58.5. The subject site included three parcels:

- ❖ Assessor's Parcel Number (APN) 139-20-202-009, 3300 Coran Lane, North Las Vegas, Nevada.
- ❖ APN 139-20-202-010, 3286 Coran Lane, North Las Vegas, Nevada.
- ❖ APN 139-20-202-001, 3112 Coran Lane, North Las Vegas, Nevada.

The proposed project entailed the construction the Lake Mead West Apartments, 156 one, two, and three-bedroom walk-up units in one two-story courtyard building, which would also include a community clubhouse. The building design included multiple rooflines and gables, balconies, window cornices, and other articulation to increase curb appeal and reduce the perceived scale of the apartment building. The project was partially funded with HUD Home Investment Partnerships Program (HOME) funds, from both Clark County and the City of North Las Vegas, requiring compliance with the National Environmental Policy Act (NEPA) and HUD regulations 24 CFR 50.4, 58.5, and 58.6.

Based on BEC's review of HUD regulations and the project description, the level of environmental review was determined to be an Environmental Assessment. The environmental review covered Air Quality, Environmental Justice, Explosive and Flammable Concerns, Flood Insurance, Floodplain Management, Historic Preservation, Noise Abatement and Control, Site Contamination, Wetlands Protection, Wild and Scenic Rivers, Airport Hazards, Farmlands Protection, Coastal Barrier Resources, Coastal Zone Management, and Sole Source Aquifers. The environmental review also included multiple development, socioeconomic, community facilities and services, and natural features assessment factors.

BEC professionals compiled and reviewed available information on each of the elements, assessed the potential for impacts to those elements, identified required mitigation where applicable, and documented the review. BEC also completed a Section 106 Consultation Package for the Lake Mead West Apartments as part of the EA. Clark County (the lead Responsible Entity) submitted the Section 106 package to the Nevada State Historic Preservation Office (SHPO) for a concurrence with a finding of No Adverse Effect on historic properties.

Project List

Client

Community Development Partners

Services

- ❖ Section 106 Consultation Package
- ❖ Environmental Assessment
- ❖ HUD and City of Reno Coordination

Project Highlights

- ❖ Coordination to complete an Architectural Survey of the subject building and surrounding area
- ❖ Coordination with the City of Reno Certified Local Government Representative

Deliverables

- ❖ One (1) electronic Draft Architectural Survey Report of Findings
- ❖ One (1) Final Architectural Survey Report of Findings
- ❖ One set of tribal invitation to consult letters
- ❖ One (1) electronic Draft Section 106 Consultation Checklist with Cover Sheet and a summary of the architectural survey
- ❖ One (1) electronic Final Section 106 Consultation Checklist with Cover Sheet and a summary of the architectural survey
- ❖ One (1) Set of draft invitation to consult/comment letters
- ❖ One (1) Set of final invitation to consult/comment letters
- ❖ A public notice

Project Dates

- ❖ August 2020 - December 2020



Planned Marvel Way Empowerment Center
Source: BEC Files

Marvel Way Empowerment Center Environmental Review

Reno, Nevada

BEC Environmental, Inc. (BEC) provided professional services for the development of a U.S. Department of Housing and Urban Development (HUD) Environmental Review for the Marvel Way Empowerment Center project in Reno, Nevada, including an Architectural Survey and an Environmental Assessment (EA). The Washoe County HOME Consortium, of which the City of Reno is the lead agency, requested an EA for the new construction of the Marvel Way Apartments development, which was partially funded with HUD Home Investment Partnerships Program (HOME) funds. The project site was approximately 2.97 acres, located at:

- ❖ Washoe County Assessor's Parcel Number (APN) 025-401-06, 1585 Marvel Way, Reno, Nevada 89511
- ❖ APN 025-401-07, 1585 Marvel Way, Reno, Nevada 89511
- ❖ APN 025-401-08, 1585 Marvel Way, Reno, Nevada 89511

The proposed project involved the development of the Marvel Way Apartments, a three-story housing complex comprised of 42 affordable housing units with on-site community space, small offices for case management, and an inpatient treatment center for women who are in early recovery from a substance use disorder. The project required the demolition of all buildings and accessory resources located within the subject parcels. The construction consisted of one three-story building, a parking lot, and access roads. A public park was constructed in the central and southeastern areas of the parcels.

Based on BEC's review of HUD regulations and the project description, the level of environmental review was determined to be an EA with the additional requirement for an Architectural Survey based on the age of the buildings to be demolished. The environmental review covered Air Quality, Environmental Justice, Explosive and Flammable Concerns, Flood Insurance, Floodplain Management, Historic Preservation, Noise Abatement and Control, Site Contamination, Wetlands Protection, Wild and Scenic Rivers, Airport Hazards, Farmlands Protection, Coastal Barrier Resources, Coastal Zone Management, and Sole Source Aquifers. The environmental review also included multiple development, socioeconomic, community facilities and services, and natural features assessment factors.

BEC professionals compiled and reviewed available information on each of the elements, assessed the potential for impacts to those elements, identified required mitigation where applicable, and documented the review. BEC also completed a Section 106 Consultation Package based on the information in the Architectural Survey report completed by a BEC subconsultant. The City of Reno (the Responsible Entity) submitted the Section 106 package to the Nevada State Historic Preservation Office (SHPO) for a concurrence with a finding of No Adverse Effect to historic properties.

Project List

Client

Accessible Space, Inc.

Services

- ❖ Section 106 Consultation Package
- ❖ Environmental Assessment
- ❖ HUD and Clark County Coordination

Project Highlights

- ❖ Developed educational training on the HUD Environmental Review process and regulations.
- ❖ Environmental Review completed on time and under budget.

Deliverables

- ❖ One (1) Draft Section 106 Consultation Checklist and Cover Sheet
- ❖ One (1) Final Section 106 Consultation Checklist and Cover Sheet
- ❖ One (1) Draft EA for one round of review and comment
- ❖ One (1) Set of draft invitation to consult/comment letters
- ❖ One (1) Set of final invitation to consult/comment letters
- ❖ A public notice
- ❖ One (1) Final EA for Responsible Entity

Project Dates

- ❖ August 2020 - December 2020



View of the project site
Source: BEC Files

Vegas Valley Environmental Review

Las Vegas, Nevada

BEC Environmental, Inc. (BEC) provided professional services for the development of a U.S. Department of Housing and Urban Development (HUD) Environmental Review (ER) for construction of the Vegas Valley Supportive Housing Development in Las Vegas, Nevada. Accessible Space, Inc. required the preparation of an ER, including an Environmental Assessment (EA), per federal laws and authorities referenced at 24 Code of Federal Regulations (CFR) 58.5 as well as the National Environmental Policy Act (NEPA). The subject site included the following parcel:

- ❖ Clark County Assessor's Parcel Number (APN) 161-08-710-036
- ❖ 4955 Vegas Valley Drive, Las Vegas, Nevada 89121

The proposed construction consisted of an affordable housing complex for senior citizens and adults with disabilities earning below 40 to 50 percent of the Area Median Income. Based on BEC's review of HUD regulations and the project description, the level of environmental review was determined to be an Environmental Assessment. The environmental review covered Air Quality, Environmental Justice, Explosive and Flammable Concerns, Flood Insurance, Floodplain Management, Historic Preservation, Noise Abatement and Control, Site Contamination, Wetlands Protection, Wild and Scenic Rivers, Airport Hazards, Farmlands Protection, Coastal Barrier Resources, Coastal Zone Management, and Sole Source Aquifers. The environmental review also included multiple development, socioeconomic, community facilities and services, and natural features assessment factors.

BEC professionals compiled and reviewed available information on each of the elements, assessed the potential for impacts to those elements, identified required mitigation where applicable, and documented the review. BEC completed a Section 106 Consultation Package for the Vegas Valley Supportive Housing Development as part of the EA. Clark County (the Responsible Entity) submitted the Section 106 package to the Nevada State Historic Preservation Office (SHPO) for a concurrence with a finding of No Adverse Effect on historic properties.

BEC was responsible for drafting comment and consultation request letters for area tribal entities and potentially interested parties, and the public notices, and HUD funding request forms. An Environmental Review Record was compiled which contained the data and documents supporting the determinations made in the Environmental Assessment.

Project List

Client

SWCA Environmental Consultants, Inc.

Services

- ❖ Desert Tortoise Monitoring
- ❖ Nesting Bird Monitoring
- ❖ Paleontological Monitoring

Project Highlights

- ❖ Preconstruction surveys
- ❖ Monitoring demolition and construction activities for tortoise, nesting birds, and prehistoric bone fragments
- ❖ Effectively supports the project while COVID-19 safety protocols are implemented
- ❖ Protects biological and paleontological resources

Deliverables

- ❖ Daily Monitoring Reports

Project Dates

- ❖ March 2020 - January 2021

Sloan to Mead Transmission Line Rebuild Environmental Monitoring

Eldorado Valley, Clark County, Nevada



Sloan to Mead Overview

Source: BEC files.



Sloan to Mead Rebuild Logo

GridLiance is upgrading and reconstructing approximately 16 miles of transmission line in the Eldorado Valley, Clark County, Nevada, extending from the Sloan Canyon Switch Station to the Mead Substation. In accordance with the Bureau of Land Management (BLM) right-of-way (ROW) agreement, GridLiance is required to provide individuals to monitor construction activities to minimize potential impacts to key environmental resources. GridLiance contracted SWCA to assist with these obligations, and SWCA contracted BEC to provide them additional support.

GridLiance is required to conduct surveys and monitor construction and maintenance activities to minimize the potential for injury or death of federally and state protected Mojave desert tortoises. BEC provides desert tortoise biologists to assist with conducting the preconstruction surveys, escorting equipment and vehicles along the roads using utility task vehicles, and monitoring construction activities.

GridLiance also is required to monitor excavation and construction activities in areas where paleontological resources had been found on or near the soil surface. BEC provides several experienced, BLM-permitted paleontologists to monitor construction activities in these areas and inspect materials as they were excavated for the presence of these resources.

Project List

Client

Double M Construction, LLC

Contact

Russ Meads
President
PO Box 6498
Pahrump, NV 89041
(702) 537-6767
Russ@doublemllc.com

Services

- ❖ Agency Consultation
- ❖ Endangered Species Act Compliance
- ❖ Mojave Desert Tortoise Surveys
- ❖ Habitat Conservation Plan Development
- ❖ Environmental Impact Analysis

Highlights

- ❖ Expansion of a State-of-the-art Raceway Facility
- ❖ Development of Reasonable Mitigation Measures
- ❖ Assisting the Spring Mountain Raceway navigate the U.S. Fish and Wildlife Service consultation process
- ❖ Incidental Take Permit granted

Deliverables

- ❖ Habitat Conservation Plan
- ❖ Desert Tortoise Translocation Plan
- ❖ Environmental Assessment

Project Dates

- ❖ August 2019 - March 2021



Northern expansion habitat.
Source: BEC files.

Spring Mountain Raceway Northern Expansion Habitat Conservation Plan and Environmental Assessment

Pahrump, Nye County, Nevada

Spring Mountain Raceway, LLC (SMR) contracted BEC Environmental, Inc. (BEC) to assist in compliance with the Endangered Species Act for their proposed northern expansion of raceway facilities on their adjacent private lands. The proposed expansion had the potential to impact the listed Mojave desert tortoise, therefore an Incidental Take Permit from the U.S. Fish and Wildlife Service (USFWS) was required prior to construction activities. BEC assisted SMR with coordination and consultation with the USFWS to obtain that Permit. BEC met with SMR and the USFWS and identified the steps and a timeline, additional data to be collected, and the documents needed to support acquisition of the Permit.



Northern expansion habitat.
Source: BEC files.

The project area was surveyed during the land transfer process. For this phase of the project, BEC surveyed adjacent habitat proposed for the release of tortoises if found within the proposed expansion area to assess habitat suitability for tortoises availability of shelter sites, and also assessed the relative abundance of tortoises in that adjacent area. BEC reviewed and re-analyzed data generated from the surveys conducted for the land transfer. Utilizing this information, BEC developed a Habitat Conservation Plan to assess potential impacts tortoises, and measures to avoid, minimize, and mitigate those impacts, including development of a Desert Tortoise Translocation Plan.

On behalf of the USFWS, BEC also developed an Environmental Assessment (EA) of the potential impacts of the granting of the Permit and the resulting construction of the expanded facilities. The EA expanded upon the evaluation conducted by the BLM for the initial land sale of the expansion area. BEC developed drafts of the Incidental Take Permit (ITP) Application Form and Notice of Availability.

BEC completed final documents addressing public comments received, followed by USFWS development of the Finding of No Significant Impact and was granted ITP.

Project List

Client

Ovation Development Corporation

Services

- ❖ NEPA Analysis, Document Development, & Support

Project Highlights

- ❖ Environmental Review completed on time and under budget
- ❖ Developer education on the HUD Environmental Review process and regulations

Deliverables

- ❖ Section 106 Consultation Checklist and Cover Sheet
- ❖ Draft EA for one round of review and comment
- ❖ Draft and Final invitation to consult/comment letters
- ❖ Public Notice
- ❖ Final EA, uploaded to HUD HEROS for the Responsible Entity review and approval

Project Dates

- ❖ January 2021 - April 2021



View of Fort Apache project site.
Source: BEC files.

Fort Apache Senior Apartments Environmental Review

Las Vegas, Nevada

BEC Environmental, Inc. (BEC) was contracted by Ovation Development Corporation to develop a U.S Department of Housing and Urban Development (HUD) Environmental Review for the Fort Apache Senior Apartments, located at the northwest corner of West Wigwam Avenue and South Fort Apache Road in Las Vegas, Nevada, Clark County Assessor's Parcel 176-18-601-003. The proposed project entailed the construction of a single four-story elevator residence for low-income seniors, including 117 one-bedroom/one-bath units and 78 two-bedroom/one-bath units. The building and associated parking would utilize the majority of the 5.0-acre parcel. The project was partially funded with HUD Home Investment Partnerships Program (HOME) funds, requiring compliance with the National Environmental Policy Act (NEPA) and HUD regulations 24 CFR 50.4, 58.5, and 58.6.

Based on BEC's review of HUD regulations and the project description, the level of environmental review was determined to be an Environmental Assessment. The environmental review covered Air Quality, Environmental Justice, Explosive and Flammable Concerns, Flood Insurance, Floodplain Management, Historic Preservation, Noise Abatement and Control, Site Contamination, Wetlands Protection, Wild and Scenic Rivers, Airport Hazards, Farmlands Protection, Coastal Barrier Resources, Coastal Zone Management, and Sole Source Aquifers. The environmental review also included multiple development, socioeconomic, community facilities and services, and natural features assessment factors.

BEC professionals compiled and reviewed available information on each of the elements, assessed the potential for impacts to those elements, identified required mitigation where applicable, and documented the review.

BEC also completed a Section 106 Consultation Package for the Fort Apache Senior Apartments as part of the EA. Clark County (the Responsible Entity) submitted the Section 106 package to the Nevada State Historic Preservation Office (SHPO) for a concurrence with a finding of No Historic Properties Affected.

BEC was also responsible for drafting comment and consultation request letters for area tribal entities and potentially interested parties, and the public notice. An Environmental Review Record was compiled which contained the data and documents supporting the determinations made in the Environmental Assessment.

Project List

Client

Nye County

Services

- ❖ Brownfields Program Management & Implementation
- ❖ Environmental Site Characterization

Project Highlights

- ❖ Approval of Hazardous Substance Site Eligibility Form

Deliverables

- ❖ Site Eligibility Form
- ❖ Phase I ESA
- ❖ Limited Phase II ESA
- ❖ Limited Asbestos Survey Report
- ❖ Radon summary report

Project Dates

- ❖ April 2019 - April 2021



View of interior of Ely Hotel Bar
Source: BEC files.

Ely Hotel Bar Nevada

BEC Environmental, Inc. (BEC) was retained by Nye County, Nevada, and White Pine County, Nevada, on behalf of the Rural Desert Southwest Brownfields Coalition (RDSBC) to develop a Hazardous Substance Site Eligibility Evaluation form, Phase I Environmental Site Assessment (ESA), Limited Phase II ESA, and Limited Asbestos Survey of the Ely Hotel Bar at 765 East Aultman Street Ely, Nevada 89301. The Ely Hotel Bar is a 3,230-square-foot (ft²) building with a 144 ft² basement, constructed in 1910

The Hazardous Substance Site Eligibility form was used to evaluate CFAC as a potential Brownfield site under the Community-Wide Assessment Grant. BEC reviewed deeds, aerial maps, and any available research to evaluate the site for potential hazardous substances on site.

BEC completed the Phase I ESA for Ely Hotel Bar in accordance with the American Society for Testing Materials (ASTM) Standard E1527-13 to identify Recognized Environmental Conditions (RECs) associated with current past uses of the property and nearby properties. The Phase I ESA identified possible Vapor Encroachment Condition (VEC) as a REC; asbestos-containing materials (ACMs), lead-based paint (LBP), and radon were identified as a potential Business Environmental Risks (BERs).

BEC performed a Limited Phase II ESA to investigate suspected contamination of the site based on the REC and BERs identified in the Phase I ESA. VEC air sampling was conducted and analyzed according to Environmental Protection Agency (EPA) Method TO-15 SIM. A Limited Asbestos Survey sampling event was conducted, and subsequently, a Limited Asbestos Survey Report was developed with a total of 126 ACM samples collected. BEC coordinated with the Nevada Division of Environmental Protection (NDEP) regarding the potential LBP BER. NDEP provided guidance that the ratio of lead paint to total waste mass indicated the LBP was not likely to be hazardous. A LBP inspection and risk assessment was not conducted. Radon samples were taken in the basement of the Plaza Hotel according to the EPA Method 402-R-92-004.

Client

Ovation Design & Development Corporation

Services

- ❖ Section 106 Consultation Package
- ❖ Environmental Assessment
- ❖ HUD Coordination

Project Highlights

- ❖ Environmental Review completed on time and under budget
- ❖ Developer education on the HUD Environmental Review process and regulations

Deliverables

- ❖ One (1) Draft Section 106 Consultation Checklist and Cover Sheet
- ❖ One (1) Final Section 106 Consultation Checklist and Cover Sheet
- ❖ One (1) Draft EA for one round of review and comment
- ❖ One (1) Set of draft invitation to consult/comment letters
- ❖ One (1) Set of final invitation to consult/comment letters
- ❖ A public notice
- ❖ One (1) Final EA, uploaded to HUD HEROS for Responsible Entity review and approval

Project Dates

- ❖ January 2021 - April 2021



View of Subject Site
Source: BEC Files

Ovation Senior Apartments Environmental Review

Las Vegas, Nevada

BEC Environmental, Inc. (BEC) was contracted by Ovation Design & Development Corporation to develop a U.S Department of Housing and Urban Development (HUD) Environmental Review for the Fort Apache Senior Apartments, located at the northwest corner of West Wigwam Avenue and South Fort Apache Road in Las Vegas, Nevada, Clark County Assessor's Parcel 176-18-601-003. The proposed project entailed the construction of a single four-story elevator residence for low-income seniors, including 117 one-bedroom/one-bath units and 78 two-bedroom/one-bath units. The building and associated parking would utilize the majority of the 5.0-acre parcel. The project was partially funded with HUD Home Investment Partnerships Program (HOME) funds, requiring compliance with the National Environmental Policy Act (NEPA) and HUD regulations 24 CFR 50.4, 58.5, and 58.6.

Based on BEC's review of HUD regulations and the project description, the level of environmental review was determined to be an Environmental Assessment (EA). The Environmental Review (ER) covered Air Quality, Environmental Justice, Explosive and Flammable Concerns, Flood Insurance, Floodplain Management, Historic Preservation, Noise Abatement and Control, Site Contamination, Wetlands Protection, Wild and Scenic Rivers, Airport Hazards, Farmlands Protection, Coastal Barrier Resources, Coastal Zone Management, and Sole Source Aquifers. The ER also included multiple development, socioeconomic, community facilities and services, and natural features assessment factors.

BEC professionals compiled and reviewed available information on each of the elements, assessed the potential for impacts to those elements, identified required mitigation where applicable, and documented the review. BEC also completed a Section 106 Consultation Package for the Fort Apache Senior Apartments as part of the EA. Clark County (the Responsible Entity) submitted the Section 106 package to the Nevada State Historic Preservation Office (SHPO) for a concurrence with a finding of No Historic Properties Affected.

BEC was also responsible for drafting comment and consultation request letters for area tribal entities and potentially interested parties, and the public notice. An ER Record was compiled which contained the data and documents supporting the determinations made in the Environmental Assessment.

Project List

Client

Clark County Social Services

Services

- ❖ Section 106 Consultation Package
- ❖ Environmental Assessment
- ❖ HUD Coordination

Project Highlights

- ❖ Environmental Review completed on time and under budget
- ❖ Developer education on the HUD Environmental Review process and regulations

Deliverables

- ❖ One (1) Draft Section 106 Consultation Checklist and Cover Sheet
- ❖ One (1) Final Section 106 Consultation Checklist and Cover Sheet
- ❖ One (1) Draft EA for one round of review and comment
- ❖ One (1) Set of draft invitation to consult/comment letters
- ❖ One (1) Set of final invitation to consult/comment letters
- ❖ A public notice
- ❖ One (1) Final EA, uploaded to HUD HEROS for Responsible Entity review and approval

Project Dates

- ❖ January 2021 - April 2021



North elevation of the Journey Senior Services Center
Source: BEC Files

Journey Senior Services Center Expansion

Las Vegas, Nevada

BEC Environmental, Inc. (BEC) was contracted by Clark County Social Services to develop a U.S Department of Housing and Urban Development (HUD) Environmental Review for the expansion of the Journey Senior Services Center located at 4323 Boulder Highway, Las Vegas, Nevada 89121, Clark County Assessor's Parcel Number (APN) 161-17-111-014. The proposed expansion would include the addition of a dining hall and a new office space to the existing building. The project was partially funded with HUD Community Development Block Grant (CDBG) funds, requiring compliance with the National Environmental Policy Act (NEPA) and HUD regulations 24 CFR 50.4, 58.5, and 58.6.

Based on BEC's review of HUD regulations and the project description, the level of environmental review was determined to be an Environmental Assessment (EA). The EA covered Air Quality, Environmental Justice, Explosive and Flammable Concerns, Flood Insurance, Floodplain Management, Historic Preservation, Noise Abatement and Control, Site Contamination, Wetlands Protection, Wild and Scenic Rivers, Airport Hazards, Farmlands Protection, Coastal Barrier Resources, Coastal Zone Management, and Sole Source Aquifers. The ER also included multiple development, socioeconomic, community facilities and services, and natural features assessment factors.

BEC was also able to review the Memorandum of Understanding between Clark County Social Service and the Nevada State Historic Preservation Office to confirm the project fell under an exemption for conducting consultation with the Nevada SHPO. This reduced the cost and time needed to reach an Authorization to Use Grant Funds from HUD.

BEC professionals compiled and reviewed available information on each of the elements, assessed the potential for impacts to those elements, identified required mitigation where applicable, and documented the review. BEC was also responsible for drafting comment and consultation request letters for potentially interested parties, and the public notice. An ER Record was compiled which contained the data and documents supporting the determinations made in the EA.



East elevation of the Journey Senior Services Center
Source: BEC Files

Project List

Client

Nevada Division of Environmental Protection

Services

- ❖ Brownfields Site Identification
- ❖ Phase I Environmental Site Assessments
- ❖ Sampling and Analysis Plan Development
- ❖ Phase II Environmental Site Assessments
- ❖ Quality Assurance
- ❖ Quarterly Reports
- ❖ Statewide Community Outreach

Project Highlights

- ❖ Brownfields site identification
- ❖ Statewide outreach
- ❖ Property purchase facilitated
- ❖ Property redevelopment facilitated

Deliverables

- ❖ Lakeview Golf Course Phase I ESA
- ❖ 17 City of Reno ReTRAC Phase I ESAs
- ❖ Four City of Las Vegas Historic Westside Phase I ESAs
- ❖ 0 Commercial Row SAP and Phase II ESA
- ❖ Nye Regional Medical Center Phase I ESA
- ❖ Three City of Las Vegas Limited Asbestos Survey Reports and one Lead Inspection report
- ❖ Quarterly Reports

Project Dates

- ❖ July 2017 - June 2021



Phase II Activities at the Commercial Row Property, Reno, Nevada
Source: BEC files.

Nevada Brownfields Program (NBP) Contract Support

Nevada

BEC Environmental, Inc. (BEC) was contracted by the Nevada Division of Environmental Protection (NDEP) to provide Nevada Brownfields Program (NBP) contract and technical support.

BEC's primary roles are to:

- Perform community outreach and technical assistance to promote the Brownfields Program across Nevada
- Identify and propose potential brownfields sites
- Conduct Phase I and II Environmental Site Assessments (ESAs)
- Perform Site Clean-up and Remediation
- Provide program management and record keeping to support continued and efficient operation of the NBP

BEC has conducted outreach and provided technical assistance to communities, organizations, and individual developers interested in the NBP. These entities have included the Nye Regional Medical Center Board, the Rural Desert Southwest Brownfields Coalition, the Town of Pahrump, the City of North Las Vegas, the Rural Nevada Development Corporation, the Nevada Housing Division, Nevada Rural Housing Authority, the City of Reno, the City of Las Vegas, and economic development professionals throughout the State.

Additionally, BEC has coordinated with representatives from the NBP, the Desert Research Institute (DRI), The Nature Conservancy (TNC), the Rocky Mountain Institute (RMI), and the Wilderness Society to advance joint efforts to promote innovative remediation technologies for Brownfields cleanups in Nevada.

Through this program, BEC has facilitated Phase I Environmental Site Assessments (ESAs), Sampling and Analysis Plans, and Phase II ESAs for the City of Reno, the City of Las Vegas, and Nye County.

Brownfields projects are part of larger comprehensive redevelopment strategies within each community, focusing on economic diversification and increasing access to healthcare.

As the contract moves forward, BEC will continue to work with NDEP staff to take creative approaches to program outreach, site remediation, and redevelopment of Brownfields sites throughout Nevada.

Project List

Client

Nye County

Services

- ❖ Brownfields Program Management & Implementation
- ❖ Environmental Site Characterization

Project Highlights

- ❖ Approval of SAP for other projects

Deliverables

- ❖ Phase I ESA
- ❖ SAP
- ❖ Limited Phase II ESA
- ❖ Limited Asbestos Survey Report
- ❖ LBP Hazard Inspection and Risk Assessment Report
- ❖ Radon summary report

Project Dates

- ❖ April 2021 - June 2021

Plaza Hotel

Ely, Nevada

BEC Environmental, Inc. (BEC) was retained by Nye County, Nevada, and White Pine County, Nevada, on behalf of the Rural Desert Southwest Brownfields Coalition (RDSBC) to perform a Phase I Environmental Site Assessment (ESA), develop a Sampling Analysis Plan (SAP), Limited Phase II ESA, Limited Asbestos Survey, and Lead-Based Paint Hazard Inspection for the Plaza Hotel located at 795 East Aultman Street, Ely, Nevada 89301. The Plaza Hotel is a 15,000-square-foot (ft²) building, constructed in 1920.

BEC completed the Phase I ESA for Plaza Hotel in accordance with the American Society for Testing Materials (ASTM) Standard E1527-13 to identify Recognized Environmental Conditions (RECs) associated with current past uses of the property and nearby properties. The Phase I ESA identified Vapor Encroachment Condition (VEC) as a REC; asbestos-containing materials (ACMs), lead-based paint (LBP), radon, avian feces and remains, and mold were considered potential Business Environmental Risks (BERs).

BEC prepared the SAP for Limited Phase II ESA investigation activities and submitted to the Environmental Protection Agency (EPA) for approval. The SAP outlined the procedures, sampling labels, disposal of residual materials, and the quality control process for the Phase II sampling event.

BEC performed a Limited Phase II ESA to investigate suspected contamination of the site based on RECs and BERs identified in the Phase I ESA. VEC air sampling was conducted and analyzed according to EPA Method TO-15 SIM. A Limited Asbestos Survey and LBP Hazard Inspection sampling event was conducted, and subsequently, a Limited Asbestos Survey Report was developed with a total of 267 ACMs samples collected and the LBP Hazard Inspection and Risk Assessment Report was developed with a total of 378 interior and exterior painted areas analyzed. Radon samples were taken in the basement of the Plaza Hotel according the EPA Method 402-R-92-004.



View of interior of Plaza Hotel
Source: BEC files.

Project List

Client

Nevada Division of Environmental Protection, Brownfields Program

Contact

David Friedman
Brownfields Program Coordinator
901 South Stewart Avenue, Ste. 4001
Carson City, Nevada
(775) 687-9385
dfriedman@ndep.nv.gov

Services

- ❖ Brownfields
- ❖ Project Management

Highlights

- ❖ Technical assistance with Brownfields reporting requirements

Deliverables

- ❖ Brownfields Quarterly Report Tables for the State of Nevada

Project Dates

- ❖ August 2017 - July 2021

Nevada Brownfields Program Quarterly Reporting

Nevada, Statewide

BEC Environmental, Inc. (BEC) was retained by the Nevada Division of Environmental Protection (NDEP) Nevada Brownfields Program (NBP) to prepare quarterly reports. These reports summarized the efforts and activities fulfilling the work plan elements of the NBP's U.S. Environmental Protection Agency (EPA) Section 128(a) State Response grant.



Source: NDEP.nv.gov/environmental-cleanup/brownfields

Each report described work activities conducted within the applicable quarter and contained elements such as: potential new Brownfield sites identified in the State; completed site applications; attendance and participation in conferences and workshops; Brownfields marketing and outreach efforts; project planning sessions; project scoping sessions; project summaries; draft reports submitted and final reports completed; summary of environmental samples submitted and laboratory analyses performed; and other items as requested by the NBP.

bec environmental, inc.	
Environmental Services	
Task	
1. Identify new Brownfield sites for the State inventory (II.A)	Aug Envi of W
2. Utilize mechanisms and resources that provide meaningful opportunities for public participation throughout the process (III.B)	Nov
3. Attend and participate in the National Brownfields Conference, Western Brownfields Workshop, and other beneficial conferences, as applicable (III.E)	Sept Natu stev
4. Promote Nevada Brownfields Program participation through marketing, outreach and community events/workshops (III.F)	Sept (BO Sept Boar
5. Prepare 128(a) Brownfield grant applications (IV.A)	July subr
6. Conduct Phase I and II site specific Environmental Site Assessments, indicate the number of draft reports submitted and number of reports finalized (IV.C)	Sept to N
7. Participate in project planning or scoping sessions as applicable	Draft Rep Sept Inc NCE

Tasks listed on the Quarterly Report Spreadsheet
Source: BEC files.

Client

Double M Construction

Services

- ❖ NEPA

Highlights

- ❖ Received NDEP Letter of No Further Action within four days of Closure Letter submittal

Deliverables

- ❖ NDEP Spill Response Report
- ❖ Limited Phase II ESA and Request for Closure Letter

Project Dates

- ❖ November 2021 - December 2021

Spring Mountain Motor Raceway Phase II Environmental Site Assessment

Pahrump, Nevada

BEC Environmental, Inc. (BEC) was retained by Double M Construction (Double M), to perform a Phase II Environmental Site Assessment (ESA) for Recognized Environmental Conditions (REC) and areas of concern identified within a Phase I ESA written by others. The scope of work included health and safety planning, scheduling field activities with Double M, overseeing excavation work, soil sample collected and submittal, coordination with Nevada Division of Environmental Protection (NDEP), and closure reporting.

BEC worked with Double M and Spring Mountain Motor Raceway representatives to complete activities to address the RECs associated with soil staining and areas of concern associated with secondary containment/spill containment as documented in the Phase I ESA. Drum and container storage areas documented in the Phase I ESA were addressed, with containers removed and soil staining excavated. Aboveground Storage Tanks (ASTs) were either moved to areas with supplemental containment to prevent soil staining/spills or the ASTs were removed from use.

BEC reported the excavation and characterization of hydrocarbon-impacted soil located near an AST area to NDEP in accordance with Nevada State regulatory requirements. A Spill Response Letter was submitted to NDEP to provide additional information requested by NDEP and to recommend an analyte-specific closure. The site received closure from NDEP.

The success of this project was achieved with close communication between BEC with Double M and Spring Mountain Motor Raceway to work around racing schedules and active refueling operations. Excavation activities were conducted immediately adjacent to the refueling ASTs, so clear communication was vital to ensure the maximum amount of impacted soil was removed while avoiding undermining of the AST area. Close communication and detailed reporting of site conditions with NDEP was also vital to expediting site closure to meet the Spring Mountain Motor Raceway goals. BEC discussed the project with the NDEP Case Officer throughout the process to ensure that cleanup requirements were met. NDEP case closure was received for the project in four days from submittal of BEC's Closure Request Letter.

Project List

Client

BJG, Inc.

Services

- ❖ Environmental Characterization

Project Highlights

- ❖ Helped the contractor understand asbestos abatement and disposal regulations for the type and amount identified during sample collection.
- ❖ Provided abatement specifications for an NDOT Asbestos Abatement RFQ.
- ❖ Project scope completed on-time, within budget, and in high quality.

Deliverables

- ❖ Hazardous Building Materials Survey Report
- ❖ Asbestos Abatement Specifications for an Asbestos Removal RFQ

Project Dates

- ❖ October 2020 - December 2021



Photo of lead-based paint sampling being conducted at the North Las Vegas NDOT facility.

Source: BEC files.

Pre-Construction Regulated Building Materials Surveys at Three NDOT Maintenance Stations in Clark County

Las Vegas, Nevada

BEC Environmental, Inc. (BEC) was contracted by BJG, Inc. to conduct a Hazardous Building Materials Survey and create Asbestos Abatement Specifications for a State of Nevada Department of Transportation (NDOT) maintenance facility reroof project. As part of the Hazardous Building Materials Survey, BEC sampled roofing materials from multiple buildings in three locations for asbestos and lead-based paint. Upon determination of which roofing materials could be classified as hazardous, BEC's certified AHERA Project Designers developed abatement specifications NDOT could incorporate into the Request for Proposals to contract an appropriately licensed abatement contractor.



View of the subject building roof being surveyed and sampled for asbestos-containing materials prior to demolition.

Source: BEC files.

Project List

Client

Nye County

Services

- ❖ Brownfields Program Management & Implementation
- ❖ Environmental Site Characterization

Project Highlights

- ❖ Approval of Hazardous Substance Site Eligibility Form

Deliverables

- ❖ Site Eligibility Form
- ❖ Phase I ESA
- ❖ Limited Phase II ESA
- ❖ Limited Asbestos Survey Report
- ❖ LBP Hazard Inspection and Risk Assessment Report
- ❖ ABCA

Project Dates

- ❖ September 2019 - December 2021

Centennial Fine Arts Center

Ely, Nevada

BEC Environmental, Inc. (BEC) was retained by Nye County, Nevada, and White Pine County, Nevada, on behalf of the Rural Desert Southwest Brownfields Coalition (RDSBC) to develop a Hazardous Substance Site Eligibility Evaluation form, Phase I Environmental Site Assessment (ESA), Limited Phase II ESA, Limited Asbestos Survey, Lead-Based Paint Hazard Inspection, and an Analysis of Brownfields Cleanup Alternatives (ABCA) and Cleanup and Reuse Plan for the Centennial Fine Arts Center (CFAC), located at 910 Aultman Street, Ely, Nevada 89301. CFAC is a 6,278-square-foot (ft²) building with a 3,768 ft² basement, constructed 1927.

The Hazardous Substance Site Eligibility form was used to evaluate CFAC as a potential Brownfield site under the Community-Wide Assessment Grant. BEC reviewed deeds, aerial maps, and any available research to evaluate the site for potential hazardous substances on site.

BEC completed the Phase I ESA for CFAC in accordance with the American Society for Testing Materials (ASTM) Standard E1527-13 to identify Recognized Environmental Conditions (RECs) associated with current past uses of the property and nearby properties. The Phase I ESA identified asbestos-containing materials (ACMs), lead-based paint (LBP), and radon as Business Environmental Risks (BERs).

BEC performed a Limited Phase II ESA to investigate suspected contamination on the site based on BERs identified in the Phase I ESA. A Limited Asbestos Survey and LBP Hazard Inspection sampling event were conducted, and subsequently a Limited Asbestos Survey Report was developed with a total of 126 ACMs samples collected. The LBP Hazard Inspection Report identified 54 paint surfaces with contaminants above the allowable limits per the Occupation Safety Hazard Association.

BEC was authorized by Nye County to prepare the ABCA and Cleanup and Reuse Plan for CFAC. The ABCA and Cleanup and Reuse Plan summarized the findings of the Phase I and II ESA, Limited Asbestos Survey, and LBP Hazard Inspection Report and provided three cleanup alternatives, alternative cost estimates, and climate impacts for the project site.



View of ACM Location

Source: BEC files.

Project List

Client

Orovada Street Senior Apartment,
LLC

Services

- ❖ Section 106 Consultation Package
- ❖ Environmental Assessment
- ❖ HUD, City of Sparks, and City of Reno Coordination

Project Highlights

- ❖ Incorporated the use of National Housing Trust Funds and HOME Funds in the Environmental Review
- ❖ Developer education on the HUD Environmental Review process and regulations

Deliverables

- ❖ One (1) Draft Section 106 Consultation
- ❖ One (1) Final Section 106 Consultation Checklist and Cover Sheet
- ❖ One (1) Draft EA for one round of review and comment
- ❖ One (1) Set of draft invitation to consult/comment letters
- ❖ One (1) Set of final invitation to consult/comment letters
- ❖ A public notice
- ❖ One (1) Final EA for Responsible Entity
- ❖

Project Dates

- ❖ October 2021 - March 2022

Orovada Senior Apartments Environmental Review

Washoe County, Nevada

Project Description: BEC Environmental, Inc. (BEC) conducted an U.S. Department of Housing and Urban Development (HUD) Environmental Review (ER) for the proposed Orovada Street Senior Apartments project in Sparks, Nevada. The Washoe County HOME Consortium, of which the City of Reno is the lead agency, requested an ER for the proposed new construction, which was partially funded with HUD Home Investment Partnerships Program (HOME) funds and HUD National Housing Trust Funds. The proposed new low-income senior apartment building included 32 one-bedroom and 8 two-bedroom units with community and service space. The single three-story building utilized a residential infill site to provide affordable housing in an area providing good access to transportation, shopping, and medical services. BEC prepared an Environmental Assessment (EA) under this ER, including a Nevada State Historic Preservation Office (SHPO) Section 106 Consultation Package, per HUD regulations. The review was conducted in accordance with HUD Regulations at 24 Code of Federal Regulations (CFR) Part 58 and the National Environmental Policy Act. The project site was one parcel with an acreage of 1.75 acres, located at Washoe County Assessor's Parcel Number (APN) 026-284-09, Southeast corner of Orovada Street and Silverada Boulevard, Sparks, Nevada 89512.

Based on BEC's review of HUD regulations and the project description, the level of environmental review was determined to be an EA. The environmental review covered Air Quality, Environmental Justice, Explosive and Flammable Concerns, Flood Insurance, Floodplain Management, Historic Preservation, Noise Abatement and Control, Site Contamination, Wetlands Protection, Wild and Scenic Rivers, Airport Hazards, Farmlands Protection, Coastal Barrier Resources, Coastal Zone Management, and Sole Source Aquifers. The environmental review also included multiple development, socioeconomic, community facilities and services, and natural features assessment factors. Additionally, National Housing Trust Fund review factors were analyzed as well and incorporated into the EA.

BEC professionals compiled and reviewed available information on each of the elements, assessed the potential for impacts to those elements, identified required mitigation where applicable, and documented the review. BEC also completed a Section 106 Consultation Package for the Orovada Street Senior Apartments as part of the EA. The City of Reno (the Responsible Entity) submitted the Section 106 package to the Nevada State Historic Preservation Office (SHPO) for a concurrence with a finding of No Adverse Effect on historic properties. BEC was also responsible for drafting comment and consultation request letters for area tribal entities and potentially interested parties, and the public notices, and HUD funding request forms. An Environmental Review Record was compiled which contained the data and documents supporting the determinations made in the EA.

Project List

Client

SWCA Environmental Consultants

Services

- ❖ Rare Plant Survey
- ❖ Assessment, Inventory, and Monitoring Protocol

Project Highlights

- ❖ Bureau of Land Management (BLM) protocol-level Special Status Plant Survey
- ❖ Vegetation community verification surveys with BLM's Assessment, Inventory, and Monitoring (AIM) protocol
- ❖ Cactus and Yucca density estimates
- ❖ Biocrust inventory/surveys
- ❖ Noxious weed inventory

Deliverables

- ❖ Daily GPS survey tracks
- ❖ Daily reports if any rare plant occurrences
- ❖ AIM protocol data sheets (vegetation composition, biocrust surveys, and noxious weed observances)
- ❖ Cactus and Yucca density estimates

Project Dates

- ❖ April 2022 - May 2022



Rosy two-tone beardtongue (*Penstemon bicolor ssp. roseus*) in bloom.

Source: BEC files

Garnet Valley Water System Botanical Resource Surveys

Apex, Nevada

BEC was retained by SWCA Environmental Consultants (SWCA) to assist with botanical resources surveys and Bureau of Land Management (BLM) Assessment, Inventory, and Monitoring (AIM) protocol surveys for the Southern Nevada Water Authority BLM right-of-way (ROW) application and proposed project construction of the Garnet Valley Water System Project. The project was located in North Las Vegas and included over 140 acres of lands managed by BLM. BEC botanists assisted SWCA with vegetation community verification surveys throughout the ROW to describe pre-project species composition. Line-point intercept data was collected in accordance with BLM's AIM protocols to collect vegetation height, canopy gap, and species inventory data. Additionally, cactus and yucca density estimates, biocrust surveys, and state listed noxious weed observances were also documented and recorded.

BEC botanists, approved by the BLM, worked with the SWCA team and assisted in conducting botanical surveys in accordance with BLM "Survey Protocols Required for NEPA and ESA Compliance for BLM Special Status Plant Species" (BLM 2008). The BEC botanists utilized tablets to document observations, compile collected data, and recorded GPS tracks. Details related to observations for were documented for BLM special-status plant species Las Vegas bearpoppy (*Arctomecon californica*) and rosy two-tone beardtongue (*Penstemon bicolor ssp. roseus*).



BEC Biologist walking transects for special status plant species.

Source: BEC files

Project List

Client

Woodbury Corporation
Campus Village Group LLC,
Campus Village QOZB LLC

Services

- ❖ Environmental Characterization

Project Highlights

- ❖ Site Characterization Update
- ❖ Soil Sampling
- ❖ Coordination with state agencies

Deliverables

- ❖ Phase I Environmental Site Assessment Update
- ❖ Phase II Environmental Site Assessment and Request for Closure Letter

Project Dates

- ❖ June 2022 - July 2022

Campus Village Environmental Site Assessment and Soil Sampling

Las Vegas, Nevada

BEC Environmental, Inc. (BEC) was contracted by Woodbury Corporation to perform a Phase I Environmental Site Assessment (ESA) Update to a previous ESA conducted in November 2021, of Las Vegas, Nevada, Assessor Parcel Numbers (APNs) 162-23-204-001, 162-23-204-003, and 162-23-204-004, located at the northeast corner of South Maryland Parkway and East Harmon Avenue. The purpose of the Phase I ESA Update was to reevaluate and identify, to the extent feasible, recognized environmental conditions (RECs) in connection with the property. The scope of work for the Phase I ESA consisted of a site reconnaissance, personnel interviews, regulatory records review, and report preparation.

BEC reviewed a list compiled by federal and state agencies that identified sites known or suspected to be contaminated, and facilities which handle hazardous substances or wastes. A computer database firm was used to provide listings of sites with the ASTM standard search radius which included information from, but was not limited to, U.S. Environmental Protection Agency-designated Superfund sites, CERCLIS sites, RCRA facilities, and Nevada Division of Environmental Protection lists of Corrective Actions cases, leaking underground storage tank cases, and registered UST owners. BEC reviewed geologic and hydrogeologic information to assess soil characteristics and groundwater occurrence, relative depth, quality, and uses.

During a performed field visit, BEC identified a REC of a leaking transformer on the subject site. BEC completed the Phase I report and findings indicated a Phase II would be necessary. Soil sampling were conducted as part of the Phase II and impacted soil was remediated. BEC reported the excavation and characterization of petroleum hydrocarbon-impacted soil near the transformer to Nevada Department of Environmental Protection (NDEP) in accordance with Nevada State regulatory requirements. A Spill Response letter was submitted to NDEP to recommend an analyte-specific closure. The site received closure from NDEP.



View of Phase II sampling activities
Source: BEC files.

Project List

Client

NextEra Energy
SWCA Environmental Consultants

Services

- ❖ Environmental Characterization

Project Highlights

- ❖ Site Characterization
- ❖ Coordination with state agencies

Deliverables

- ❖ Phase I Environmental Site Assessment Report

Project Dates

- ❖ October 2022 - November 2022

Dry Lake East Energy Center Phase I Environmental Site Assessment

Clark County, Nevada

BEC Environmental, Inc. (BEC) was contracted by SWCA Environmental Consultants (SWCA) on behalf of NextEra Energy (NextEra) to conduct a Phase I Environmental Site Assessment (ESA) for a proposed Dry Lake East Energy Center Solar project, located at US Interstate 15 in unincorporated Clark County, Nevada 89040. The project proposed an approximate 1620-acre solar site with a 2.1-mile long transmission line, extending to the west to Harry Allen Generation Plant. The purpose of the Phase I ESA was to evaluate and identify, to the extent feasible, recognized environmental conditions (RECs) in connection with the property. The scope of work for the Phase I ESA consisted of a site reconnaissance, personnel interviews, regulatory records review, and report preparation.

BEC reviewed a list compiled by federal and state agencies that identified sites known or suspected to be contaminated, and facilities which handle hazardous substances or wastes. A computer database firm was used to provide listings of sites with the ASTM standard search radius which included information from, but was not limited to, U.S. Environmental Protection Agency-designated Superfund sites, CERCLIS sites, RCRA facilities, and Nevada Division of Environmental Protection lists of Corrective Actions cases, leaking underground storage tank cases, and registered UST owners. BEC reviewed geologic and hydrogeologic information to assess soil characteristics and groundwater occurrence, relative depth, quality, and uses.

BEC conducted the site reconnaissance where a REC was identified as historic smokeless gunpowder canisters which may have contained hazardous compound, ammonium picrate. BEC completed the Phase I report and findings indicated soil sampling would be necessary to further evaluate identified RECs of the subject site.



Subject site taken by BEC scientists
Source: BEC files.



Historic smokeless gunpowder canisters
Source: BEC files.

Project List

Client

Silver State Solar, LLC
NextEra Energy
SWCA Environmental Consultants

Services

- ❖ Environmental Characterization

Project Highlights

- ❖ Site Characterization
- ❖ Coordination with state agencies

Deliverables

- ❖ Phase I Environmental Site Assessment report

Project Dates

- ❖ November 2022 - December 2022

Silver State South Storage Phase I Environmental Site Assessment

Primm, Nevada

BEC Environmental, Inc. (BEC) was contracted by SWCA Environmental Consultants (SWCA) on behalf of Silver State Solar, LLC (Silver State) and NextEra Energy to conduct a Phase I Environmental Site Assessment (ESA) for a proposed Silver State South Storage project, located at 2250 E Primm Blvd, Primm, Nevada 89019. The project consisted of a proposed 34.5 acre storage site with a developed substation and a 2.0-mile unpaved access road (Primm Blvd). The purpose of the Phase I ESA was to evaluate and identify, to the extent feasible, recognized environmental conditions (RECs) in connection with the property. The scope of work for the Phase I ESA consisted of a site reconnaissance, personnel interviews, regulatory records review, and report preparation.

BEC reviewed a list compiled by federal and state agencies that identified sites known or suspected to be contaminated, and facilities which handle hazardous substances or wastes. A computer database firm was used to provide listings of sites with the ASTM standard search radius which included information from, but was not limited to, U.S. Environmental Protection Agency-designated Superfund sites, CERCLIS sites, RCRA facilities, and Nevada Division of Environmental Protection lists of Corrective Actions cases, leaking underground storage tank cases, and registered UST owners. BEC reviewed geologic and hydrogeologic information to assess soil characteristics and groundwater occurrence, relative depth, quality, and uses.

BEC conducted the site reconnaissance and documented findings using a GPS data logger. A Phase I Environmental Site Assessment report was completed and submitted to clients.



Subject site taken by BEC scientists
Source: BEC files.



Subject access road taken by BEC scientists
Source: BEC files.

Project List

Client

MBS Development, Inc

Services

- ❖ Environmental Characterization

Project Highlights

- ❖ Site Characterization
- ❖ Coordination with state agencies

Deliverables

- ❖ Phase I Environmental Site Assessment report

Project Dates

- ❖ November 2022 - December 2022

Desert Pines Golf Club

Phase I Environmental Site Assessment

Las Vegas, Nevada

BEC Environmental, Inc. (BEC) was contracted by McCormack Baron Salazar Development, Inc (MBS) to conduct a Phase I Environmental Site Assessment (ESA) for the Desert Pines Golf Club located at 3412 East Bonaza Road, Las Vegas, NV 89101. The project consisted of a 95.5-acre golf course. The purpose of the Phase I ESA was to evaluate and identify, to the extent feasible, recognized environmental conditions (RECs) in connection with the property. The scope of work for the Phase I ESA consisted of a site reconnaissance, personnel interviews, regulatory records review, and report preparation.

BEC reviewed a list compiled by federal and state agencies that identified sites known or suspected to be contaminated, and facilities which handle hazardous substances or wastes. A computer database firm was used to provide listings of sites with the ASTM standard search radius which included information from, but was not limited to, U.S. Environmental Protection Agency-designated Superfund sites, CERCLIS sites, RCRA facilities, and Nevada Division of Environmental Protection lists of Corrective Actions cases, leaking underground storage tank cases, and registered UST owners. BEC reviewed geologic and hydrogeologic information to assess soil characteristics and groundwater occurrence, relative depth, quality, and uses.

BEC conducted the site reconnaissance where RECs were indentified as a leaking transformer and free-standing water/unknown substances discovered in a pump house. Findings were documented and a Phase I Environmental Site Assessment report was completed. A Phase II ESA was recommended to assess the soil contamination and the release of unknown hazardous substances.



Free-standing substances at Subject site
Source: BEC files.



Subject site taken by BEC scientists
Source: BEC files.

Project List

Client

SWCA Environmental Consultants

Services

- ❖ Rare Plant Surveys
- ❖ Assessment, Inventory, and Monitoring Protocol

Project Highlights

- ❖ Bureau of Land Management (BLM) protocol-level Special Status Plant Survey
- ❖ Vegetation community verification surveys with BLM's Assessment, Inventory, and Monitoring (AIM) protocol
- ❖ Cactus and Yucca density estimates
- ❖ Biocrust inventory/surveys
- ❖ Noxious weed inventory

Deliverables

- ❖ Daily GPS survey tracks
- ❖ Daily reports if any rare plant occurrences
- ❖ AIM protocol data sheets (vegetation composition, biocrust surveys, and noxious weed observations)
- ❖ Cactus and Yucca density estimates

Project Dates

- ❖ November 2022 - December 2022



Barrel cactus (*Ferocactus cylindraceus*)
Source: BEC files

East Dry Lake Vegetation Surveys

Clark County, Nevada

BEC Environmental Inc. (BEC) was contracted by SWCA Environmental Consultants (SWCA) to assist with botanical resource surveys and Bureau of Land Management (BLM) Assessment, Inventory, and Monitoring (AIM) protocol surveys for the NextEra Energy Resources (NEER) Dry Lake East Energy Complex BLM right-of-way (ROW) application. The project was located approximately 20 miles northeast of Las Vegas on lands managed by the BLM in Clark County, Nevada. BEC botanists assisted SWCA with vegetation community verification surveys throughout the ROW to describe pre-project species composition. Line-point intercept data was collected in accordance with BLM's AIM protocols to collect vegetation height, canopy gap, and species inventory data. Additionally, cactus and yucca density estimates, biocrust surveys, and state listed noxious weed observations were also documented and recorded.



Johnson's beehive cactus (*Sclerocactus johnsonii*)
Source: BEC files

BEC botanists approved by the BLM worked with the SWCA team and assisted in conducting botanical surveys in accordance with BLM "Survey Protocols Required for NEPA and ESA Compliance for BLM Special Status Plant Species" (BLM 2008). The BEC botanists utilized tablets to document observations, compiled collected data, and recorded GPS tracks. Details related to observations for were documented for BLM special-status plant species rosy two-tone beardtongue (*Penstemon bicolor ssp. roseus*).

Client

HCA Healthcare, Inc

Services

- ❖ Aquatic Delineation

Project Highlights

- ❖ Delineated 0.17 miles of aquatic features
- ❖ Surveyed 56 acres of native desert land

Deliverables

- ❖ Aquatic Resource Delineation Report

Project Dates

- ❖ December 2022



Aquatic features taken by BEC scientists
Source: BEC files.

Cactus & Las Vegas Blvd WOUS Evaluation

Clark County, Nevada

BEC Environmental, Inc. (BEC) was contracted by HCA Healthcare, Inc. (HCA) to review for and evaluate the potential presence of wetlands and other water features on 56 acres of land (Project Area) proposed for acquisition and development located in Clark County, Nevada. The purpose of the evaluation was to survey the area for the presence of existing ephemeral washes, wetlands, and other surface waters and aquatic resources potentially classified as jurisdictional Waters of the U.S. (WOUS) under Section 404 of the Clean Water Act (CWA).

BEC scientists developed ArcGIS Field Maps forms for data collection and processed field data using ArcGIS Pro. Processed Geodata collected in field and appended separate data layers. Designed high resolution digital maps and implemented workflow for converting GPS data.

BEC Biologists conducted field delineation efforts on December 12, 2022 and walked portions of the Project Area with potential aquatic features identified on historic aerial imagery, NWI and USGS maps. BEC scientists noted soils, vegetation, and topographic characteristics that might indicate the presence of an aquatic resource. The scientists also sought out any locations within the Project Area possessing any of the three characteristics of wetlands (i.e., hydric soils, wetland hydrology, and hydrophytic plants) as described in the USACE Wetland Delineation Manual (USACE, 1987).

The survey of the Project Area resulted in the identification of four definable aquatic resource features. BEC documented findings in the Aquatic Resources Delineation Report.



Aquatic features taken by BEC scientists
Source: BEC files.

Project List

Client

Houston Housing Authority

Services

- ❖ Section 106 Consultation Package
- ❖ Categorical Exclusions Subject to Federal Laws and Authorities Analysis

Project Highlights

- ❖ Coordination with the City of Houston, Housing and Community Development Department
- ❖ Environmental Review completed in less than one month and under budget.

Deliverables

- ❖ One (1) Draft CEST
- ❖ One (1) Final CEST

Project Dates

- ❖ December 2020 - December 2022

Telephone Road Environmental Review

Houston, Texas

BEC Environmental, Inc. (BEC) provided professional services for development of a U.S. Housing and Urban Development (HUD) required Environmental Review (ER) for mold remediation work at the Telephone Road Elderly Apartments, a 200-unit senior living facility built in 1978, located at 6000 Telephone Road, Houston, Texas 77087. The Houston Housing Authority (HHA) required the preparation of an ER, classified as a Categorical Exclusion Subject To (CEST) 24 Code of Federal Regulations (CFR) Section 58.5 project. The CEST ER would be completed specifically for mold remediation work which had already begun but required additional grant funding due to the uncovered extent of the mold growth.

BEC reviewed recent data provided by the HHA for specific resource impact information, in accordance with HUD requirements, including a Phase I Environmental Site Assessment, Limited Mold Assessment Report, Noise Study, Texas State Historic Preservation Office (SHPO)/Texas Historical Commission findings, and weekly site reports from the ongoing rehabilitation work. Additional records research and data were collected from Harris County Assessor, US Fish and Wildlife Service, Federal Emergency Management Agency, US Department of Agriculture Natural Resources Conservation Service, US Environmental Protection Agency, Texas Commission on Environmental Quality, other Harris County entities, and City of Houston.



Lobby area undergoing remediation
Source: BEC Files



Telephone Road Apartments
Source: BEC Files

Project List

Client

Becknell Industries, LLC

Services

- ❖ Desktop Review
- ❖ Site Survey
- ❖ Threatened and Endangered Species Impact Summary Report

Highlights

- ❖ Desktop review of US Fish and Wildlife Service (USFWS) Information and Planning Consultation (IPAC) review and Nevada Division of Natural Heritage (NDHP) query
- ❖ Field survey for potential presence of threatened or endangered species

Deliverables

- ❖ Summary Report on the Potential for Impacts to Threatened or Endangered Species

Project Dates

- ❖ January 2023



View of project boundary
Source: BEC files

Becknell - Threatened and Endangered Species Impact Review

Henderson, Nevada

BEC Environmental Inc. (BEC) was contracted by Becknell Industrial, LLC. (Becknell) to conduct a review of readily available data on the potential presence of protected animal and plant species to support the development of a vacant parcel in Henderson, Nevada. BEC reviewed data from the US Fish and Wildlife Services (USFW) Information and Planning Consultation (IPAC) informal regulatory review and the Nevada Division of Natural Heritage (NDHP) database of previous observation of protected species.



BEC conducted a site visit of the project area to confirm if habitat on the site matched the mapped information and to assess the potential for the presence of protected species. BEC developed a report summarizing the findings during the data review process and site visit.

Project List

Client

Zaya Resources, Ltd.

Services

- ❖ Desert Tortoise Presence/Absence Survey
- ❖ Desert Tortoise Survey Report

Highlights

- ❖ US Fish and Wildlife Service (USFWS) protocol-level Mojave desert tortoise survey
- ❖ Coordination with the Bureau of Land Management (BLM) on survey methodology

Deliverables

- ❖ Mojave Desert Tortoise Survey Report

Project Dates

- ❖ January 2023



Predator Burrow observed on Subject Site.
Source: BEC files

Longtail Desert Tortoise Survey

Nye County, Nevada

BEC Environmental Inc. (BEC) was contracted by Zaya Resources Ltd. (Zaya) to conduct a Mojave desert tortoise survey in support of proposed exploratory drilling operations near the town of Beatty, Nye County, Nevada. Zaya proposed accessing the site along a one-mile ridge north of the drilling sites. The Bureau of Land Management (BLM) required Zaya to document the presence/absence of the Mojave desert tortoise (*Gopherus agassizii*) in these areas.



View of Subject Site
Source: BEC files

BEC conducted desert tortoise surveys based on the methodology developed by Zaya and concurrence by BLM. BEC developed the Mojave Desert Tortoise Survey Report summarizing the findings recorded during the presence/absence survey for the project area.

Client

SWCA Environmental Consultants

Services

- ❖ Limited Phase II ESA
- ❖ Soil and Explosive Material Sampling

Project Highlights

- ❖ Coordinated with State agen

Deliverables

- ❖ Phase II ESA (letter report of findings)

Project Dates

- ❖ March - April, 2023

Dry Lake East Phase II Environmental Site Assessment

Clark County, Nevada

BEC was retained by SWCA Environmental Consultants (SWCA) on behalf of NextEra Energy Resources (NextEra) to conduct a Limited Phase II Environmental Site Assessment (ESA) at the Dry Lake East Solar (subject site) located east of the North US-Interstate 15 in unincorporated Clark County, Nevada 89040. The project site is approximately 1,620 acres in size and is a proposed solar field site. The purpose of the Limited Phase II ESA was to assess potential explosive material from smokeless gunpowder and metal cannisters identified in the 2022 Phase I ESA. The scope of work for the Limited Phase II ESA consisted of soil and material sampling, transportation, and report preparation.

BEC conducted field sampling of soil samples from the subsurface (up to 2 feet below the surface) and from within the metal cannisters. Sample locations were tracked using a GPS unit and documented into a geodata base. The samples were then transported by vehicle to a Nevada accredited laboratory located in Reno, Nevada.

A summary report was developed including analytical results, maps, and conclusions, and was signed by a Nevada Certified Environmental Manager. The project entailed coordination from SWCA, the Bureau of Land Management, and the Nevada Department of Environmental Protection.



View of smokeless gunpowder cannister
Source: BEC files



View of metal cannisters
Source: BEC files

Project List

Client

Colorado State University Center
for Environmental Management of
Military Lands

Services

- ❖ *Perdita meconis* presence/absence surveys
- ❖ Survey Protocol Planning
- ❖ Data Entry
- ❖ Reporting

Deliverables

- ❖ Datasheets entered into CSU CEMML database
- ❖ Photographs of observations

Project Dates

- ❖ February 2022 - May 2023



A Mojave poppy bee (*Perdita meconis*) foraging on a Las Vegas bearpoppy inflorescence.
Source: BEC files

Professional Services to Support *Perdita meconis* (Mojave Poppy Bee) Surveys

Nellis Air Force Base, Nevada

BEC supported the Colorado State University (CSU) Center for Environmental Management of Military Lands (CEMML) efforts to document the presence/absence of the Mojave poppy bee (*Perdita meconis*) within Nellis Air Force Base. A survey protocol was established at the beginning of the poppy flowering season. Populations of Las Vegas bearpoppy (*Arctomecon californica*), a Nevada state critically endangered plant species, were surveyed for the presence/absence of its specialist pollinator.



Sweat bees (*Lasioglossum subgenus dialictus*) were the most common visitors of Las Vegas bearpoppy inflorescences.
Source: BEC files

Presence/absence surveys were led by a BEC biologist with Mojave poppy bee expertise and a CSU CEMML botanist. The Mojave poppy bee was observed on Nellis Air Force Base during the surveys in 2023. Common visitors observed were sweat bees (*Lasioglossum* spp.) and the European honeybee (*Apis mellifera*).

Project List

Client

Nye County

Services

- ❖ Brownfields
- ❖ Cleanup Planning
- ❖ Cleanup Oversight
- ❖ Environmental Characterization
- ❖ Grants
- ❖ Outreach
- ❖ Stakeholder Coordination

Project Highlights

- ❖ Over \$4.5 million Leveraged in public and private redevelopment investment
- ❖ \$900 Million Leveraged in Private Renewable Energy Investment
- ❖ EPA Pilot Project (2002)
- ❖ EPA Assessment (2005)
- ❖ NDEP Abatement (2006)
- ❖ EPA Job Training (2007, 2012, 2016)
- ❖ EPA Coalition Assessment (2010, 2013, 2016)
- ❖ EPA Brownfields Revolving Loan Fund (2014, 2018)

Deliverables

- ❖ ACRES Reports
- ❖ Area Wide Plans
- ❖ Institutional Controls
- ❖ Phase I and II Environmental Site Assessments (ESAs)
- ❖ Public Outreach and Education Materials
- ❖ Quarterly Reports
- ❖ Cleanup and Reuse Plans
- ❖ Samplings and Analysis Plans
- ❖ Analysis of Brownfields Cleanup Alternatives
- ❖ Final Site and Program Summary Reports

Project Dates

- ❖ 2011 - Ongoing

The Rural Desert Southwest Brownfields Coalition

Nevada and California

BEC was contracted by Nye County to provide services in support of its Environmental Protection Agency (EPA) Brownfields Coalition Assessment grant for the identification, assessment, and reuse planning of sites throughout Nye, Esmeralda, Lincoln, and White Pine County, Nevada, and Inyo County, California, when the Rural Desert Southwest Brownfields Coalition (RDSBC) was established in 2011. Since then, BEC has been the selected QEP to support the RDSBC as it expanded to include Mineral County, Nevada, and the Duckwater Shoshone Reservation, through two subsequent Coalition Assessment grant awards, two Brownfields Revolving Loan Fund grant awards, and three Job Training grant awards.

As part of this process, BEC has developed and refined a database to inventory potential brownfields properties to evaluate redevelopment options and consistency with program objectives and goals. BEC's responsibilities included preparing: site eligibility forms; Site Specific Health & Safety Plans; Phase I Environmental Site Assessments (ESAs); Sampling and Analysis Plans; Phase II ESAs (as warranted); Analysis of Brownfields Cleanup Alternatives; Cleanup Plans; Cleanup Summary Reports; Assessment, Cleanup, and Reuse Exchange System (ACRES) property profile form entries and updates; and quarterly reports documenting program activities. In addition, BEC facilitates and documents quarterly Coalition meetings and public meetings that occur, at least, on an annual basis.

BEC works with the Coalition in partnership with local stakeholders (governments, citizens, community-based organizations, and developers) to ensure the brownfields program is consistent with local redevelopment goals. Throughout this project, BEC's commitment to providing high quality service has led to increasing public engagement and trust of the program. EPA Region 9 has included, as examples, deliverables developed by BEC in their packages for new grantees.



Wye Road Property before and after Inyo, California.

Source: BEC files.

Project List

Client

William Hernstadt

Project Highlights

- ❖ Sale approval and concurrence from Amargosa Valley Town Board and Nye County board of County Commissioners

Deliverables

- ❖ Nye County Board of County meeting agenda
- ❖ Formal letter for disposal land
- ❖ Competitive land sale justification letter
- ❖ Project status/summary reports

Project Dates

- ❖ January 2019 - Ongoing

BLM Land Disposal Sale Request

Amargosa Valley, Nevada

BEC Environmental, Inc. (BEC) was contracted by a private individual, Mr. Hernstadt, to assist in a request to the Bureau of Land Management (BLM) for the sale of BLM-designated disposal land in Amargosa Valley, Nye County, Nevada.

BEC developed land status and parcel boundary maps, land history summaries, and legal descriptions of the requested land sale parcels to support the sale request letter to be submitted to the BLM.

BEC coordinated with the Amargosa Valley Town Board and Nye County Board of County Commissioners to receive support for the land sale request, including infrastructure easements on the identified sale parcels. Letters of support from both entities, as well as the formal request letter drafted by BEC were submitted to the BLM requesting the sale of 160-acres of vacant disposal land.

Client

Liberty Utilities (CalPeco Electric), LLC

Contact

Lindsay Maruncic, Director
530-546-1789

Services

- ❖ NEPA

Highlights

- ❖ Habitat Characterization/
Burrowing Owl Survey
- ❖ Small Mammal Trapping
- ❖ Bird Point Count/Eagle Surveys

Deliverables

- ❖ Environmental Assessment
- ❖ Compendium Impact
Assessment Worksheets
- ❖ Bird and Bat Conservation
Strategy
- ❖ Weed Abatement and
Vegetation Management Plan
- ❖ Habitat Assessment and
Biological Resource Surveys
Report

Project Dates

- ❖ August 2020 - Ongoing

Luning Solar Energy Project - Phase II Environmental Assessment

Luning, Nevada

BEC supported the development of an EA and associated documents for the proposed 50-MW expansion of a solar energy project (Project) on Bureau of Land Management (BLM) lands in Mineral County, near Luning, Nevada. The EA was being developed to support Liberty Utilities (CalPeco Electric), LLC (Proponent)'s Right-of-Way (ROW) Grant application and the associated NEPA evaluation. The BEC scope included coordinating with state and federal resource agencies, the Proponent, and BLM; conducting site surveys to evaluate potential impacts to visual, cultural, and natural resources; supporting BLM in response to agency and public comments; and developing the Preliminary and Final EA and supporting documents.

The documents developed to support the NEPA review process included multiple iterations of the EA, in addition to a Compendium of Resource Impact Assessment Worksheets, a Habitat Characterization and Biological Resources Surveys Supplemental Environmental Report, a Bird and Bat Conservation Strategy, and a Weed Abatement and Vegetation Management Plan, and multiple iterations of the Project Plan of Development. As the third-party NEPA consultant, BEC also assisted the BLM staff with developing public notices, drafts of the Finding of No Significant Impact, and the Decision Record.

BEC supported the Proponent in reviewing the ROW Grant documents and is currently developing an Environmental Permits and Commitments Matrix to support the next phases of project development.

BEC maintained frequent communication and coordination among the BLM team and the Proponent to ensure a defensible and complete NEPA document was drafted while ensuring the required evaluations and analysis were consistent with the level of potential impacts. Completion of the NEPA process required not only familiarity with existing BLM NEPA guidelines, but also the evolving federal NEPA regulations (i.e., Council on Environmental Quality [CEQ]) and the BLM Nevada State Office and Carson City District Office's efforts to comply with these changes.

Project List

Client

Nye County

Services

- ❖ Brownfields
- ❖ Permitting Support and Compliance
- ❖ Government Liaison and Relations
- ❖ Outreach
- ❖ Coordination with local/state/federal agencies

Project Highlights

- ❖ Community Outreach
- ❖ Coordination with local, state, and federal agencies

Deliverables

- ❖ Analyses of Brownfields Cleanup Alternatives
- ❖ Community Outreach
- ❖ Coordination with local, state, and federal agencies
- ❖ Remediation / Cleanup Plans
- ❖ Sampling and Analysis Plan

Project Dates

- ❖ May 2014 - Ongoing



Nye County Public Works building.
Source: BEC files.



Disturbed areas within and adjacent to the Tonopah Airport FBO building site.
Source: BEC files.

Nye County's Nevada Rural Brownfields Partnership's Revolving Loan Fund Technical Assistance and Grant Support

Nye, Esmeralda, Lincoln, and White Pine Counties, Nevada

Nye County contracted BEC Environmental, Inc. (BEC) to provide environmental professional services in support of its U.S. Environmental Protection Agency (EPA) Brownfields Revolving Loan Fund (RLF). The Nevada Rural Brownfields Partnership (Partnership) includes Nye, Esmeralda, Lincoln, and White Pine County, Nevada and provides loan and sub-grant opportunities to cleanup Brownfield sites throughout the Partnership area.

BEC is building on experience with Rural Desert Southwest Brownfields Coalition (RDSBC) representatives to identify previously assessed sites which are eligible for cleanup and redevelopment funding through the RLF. BEC's responsibilities include assisting with: identification of potential sites and confirmation of site eligibility; coordination with EPA from site selection through completion of cleanup; development of a Community Outreach Plan, Quality Assurance Project Plan to confirm contamination removal and/or mitigation was effective; development of an Analysis of Brownfields Cleanup Alternatives; and providing oversight and coordination for necessary subcontractors at each of the sites. BEC also ensures EPA cleanup guidelines are used, such as the use of green remediation techniques, and the site is cleaned up using methods which protect the health of the public and the environment.

The Partnership and BEC work together, in conjunction with local communities (governments, citizens, and community-based organizations), to conduct cleanup planning and community outreach activities, including holding community meetings and maintaining a document repository as required. Community outreach programs promote the RLF and associated cleanup and redevelopment activities within the community and provide property owners resources to evaluate the viability of the RLF for their site. All Partnership activities are documented in Quarterly Reports. Through this program, BEC has helped Nye County successfully complete the first two Revolving Loan Fund projects: Tonopah Airport Fixed Base Operator Building and the Nye County Public Works Buildings 1 & 2.

Project List

Client

Shasta Consulting Group, Inc.

Services

- ❖ Environmental Management Support
- ❖ Coordination with local/state/federal agencies

Project Highlights

- ❖ Completed the final Soil Management Plan which was submitted to NDEP for approval on January 25, 2024.

Deliverables

- ❖ Soil Management Plan

Project Dates

- ❖ October 2023 - Ongoing



View of Project location in Lahontan Reservoir, Fallon, NV outlined in red. Source: BEC files.

Soil Management Plan for Fiber Optic Cable Removal

Lahontan Reservoir, Fallon, Nevada

Shasta Consulting Group, Inc. (Shasta) contracted BEC Environmental, Inc. (BEC), in coordination with Nevada Division of Environmental Protection (NDEP), to prepared a Soil Management Plan (Plan) for submittal to NDEP for approval.

Former historic mill sites located near Carson City, Dayton, and Virginia City, Nevada where mercury was commonly used to separate gold and silver ore resulted in contaminates including mercury and other heavy metals (arsenic and lead) being released into the Carson River, subsequently contaminating the downgradient soils and sediments for more than 130 miles.

The Project Plan included the removal of approximately 6,800 feet of an AT&T communications cable. 1,400 feet of cable encased in conduit, allowing mechanical removal of the cable while leaving the conduit in place. The remaining cable was not within the conduit and had been directly buried. This section of cable required full excavation to be removed.

BEC developed the Plan in accordance with NDEP's recommendation, "to communicate the issues and recommendations with the contractor, Shasta Consulting, Inc, project management, and Nevada Department of Transportation (NDOT) staff," relevant to excavation and possible soil removal activities related to removal of an AT&T communications cable within the impacted down-river Operable Units 2 site in the Carson River Mercury Superfund Site adjacent to the Lahontan Reservoir between the towns of Fallon and Silver Springs, Nevada. The final Plan was submitted to NDEP for approval.

Project List

Client

Lincoln County Power District #1

Services

- ❖ Environmental Characterization

Project Highlights

- ❖ Site Characterization
- ❖ Coordinated with state agencies

Deliverables

- ❖ Phase I Environmental Site Assessment report

Project Dates

- ❖ February 2024

Bullion Belcher #4 Mining Claim Phase I Environmental Site Assessment

Lincoln County, Nevada

BEC Environmental, Inc. (BEC) was contracted by Lincoln County Power District #1 to perform a Phase I Environmental Site Assessment (ESA). The Subject Site consisted of approximately 20 acres of vacant property located in the Pioche Mining District in Lincoln County, Nevada. The 20-acres of property was historically used as a mining claim. The purpose of the Phase I ESA was to evaluate and identify, to the extent feasible, recognized environmental conditions (RECs) in connection with the property. The scope of work for the Phase I ESA consisted of a site reconnaissance, personnel interviews, regulatory records review, and report preparation.

BEC reviewed a list of records compiled by federal and state agencies of identified sites known or suspected to be contaminated, and facilities which handle hazardous substances or wastes. A computer database firm was used to provide listings of sites within the ASTM standard search radius. Federal databases included information from, but not limited to, U.S. Environmental Protection Agency-designated Superfund sites, CERCLIS sites, and RCRA facilities. State databases included the Nevada Division of Environmental Protection lists of Corrective Actions cases, leaking underground storage tank (LUST) cases, and registered UST owners. BEC reviewed geologic and hydrogeologic information to assess soil characteristics and groundwater occurrence, relative depth, quality, and uses.

BEC conducted the site reconnaissance where BEC identified the south adjoining property, Prince Mine, as a REC to the Subject Site due to the observation of soil discoloration, mine tailings and leaching ponds from mine development. Findings were documented and the Phase I ESA report was completed. A Phase II ESA was recommended to assess potential soil contamination associated with the Prince Mine property.



View of Project location in Lincoln County, NV.

Source: BEC files.



View of south adjoining property, Prince Mine.

Source: BEC files.