

EC-21-424



**CITY OF ALBUQUERQUE**  
**Albuquerque, New Mexico**  
**Office of the Mayor**

Mayor Timothy M. Keller

**INTER-OFFICE MEMORANDUM**

July 8, 2021

**TO:** Cynthia D. Borrego, President, City Council

**FROM:** David Simon, Director, Parks and Recreation Department

A handwritten signature in black ink, appearing to be 'DS', is written to the right of the 'FROM' line.

**SUBJECT:** Mayor's Recommendation of Award (ROA) for RFP No. RFP-2021-154-PRK-CG  
"Rio Grande Bosque Wildfire Mitigation Services"

The City of Albuquerque's Parks and Recreation Department, Open Space Division in conjunction with the Department of Finance, Purchasing Division, issued the RFP for Rio Grande Bosque wildfire mitigation services.

The RFP was posted on the Purchasing E-Procurement, Bonfire website on February 26, 2021 and advertised in the Albuquerque Journal on March 8, 2021.

The City received five (5) responses to this solicitation. The ad hoc evaluation committee evaluated and scored the proposals received in accordance with the evaluation criteria published in the RFP. After thoroughly reviewing and scoring the proposal, SWCA, Incorporated, earned the highest score of 887 points. The ad hoc committee found SWCA, Incorporated to be both responsive and qualified and recommends an award to SWCA, Incorporated.

I concur with this recommendation.

The City of Albuquerque's Parks and Recreation Department, Open Space Division will manage this contract.



## Cover Analysis

### **1. What is it?**

A contract with SWCA Environmental Consultants for Wildlife Mitigation Services in the Rio Grande Valley State Park managed by the City of Albuquerque Open Space Division.

### **2. What will this piece of legislation do?**

This legislation will enable the Open Space Division (OSD) to move forward with the Phase I of the Wildfire Mitigation Services project that includes conducting an Environmental Assessment of the project area and process related analysis and permits in accordance with the terms, conditions, and specifications contained in this Request for Proposals, and then develop a project plan design with specification for a fuel wood reduction and exotic species removal and revegetation activities within the Rio Grande State Park at sites identified in the RFP. Additionally, the contractor will support the OSD in submitting required documents to the Department of Homeland Security and Emergency Management for Phase II funding that involves the implementation of the Phase I project plan.

### **3. Why is this project needed?**

The purpose of the Rio Grande Valley State Park wildfire mitigation project is to reduce the severity of catastrophic wildfires, protect habitat for a variety of endangered and resident species, along with ultimately protecting life and property. The project site exists within the Rio Grande Valley State Park, a 4,027 acres Rio Grande Cottonwood forest, with the City of Albuquerque Open Space Division being the managing entity. More specifically, a 470-acre parcel has been identified for mitigation on both the west and east sides of the Rio Grande River, south of Bridge Boulevard to north of Central Avenue. In recent years, this stretch of forest has seen numerous wildfires, varying in size and severity. With modifications and impoundments created on and along the Rio Grande Valley riparian ecosystem, non-native species of plants have been able to populate large areas, adding to the overall fuel load. Currently, significant amounts of dead, downed and dry vegetative material combined with non-native vegetation exists within the project site creating a significant hazardous fuel load allowing for the possibility of catastrophic wildfires to occur. This project involves the assessment and planning for the eventual removal of invasive plant species to improve the ecological integrity of the site, reduce soil loss from erosion worsened by invasive species and ultimately reduce the hazardous fuel load potentially contributing to catastrophic wildfires. Following hazardous fuel mitigation efforts, planting of indigenous vegetation will occur to enhance habitat value for resident and migratory wildfire. This mitigation effort is also designed to benefit wildlife, including migratory and resident birds that utilize habitat along the Rio Grande Corridor.

### **4. How much will it cost and what is the funding source?**

The cost for the contract has not yet been negotiated with the contractor, however, they have estimated that the project will cost \$97,250. The Department of Homeland Security and

**FISCAL IMPACT ANALYSIS**

TITLE: Approval of RFP-2021-154-PRK-CG- SWC

R: O:  
FUND: 265

DEPT: Parks Department

- No measurable fiscal impact is anticipated, i.e., no impact on fund balance over and above existing appropriations.
- (If Applicable) The estimated fiscal impact (defined as impact over and above existing appropriations) of this legislation is as follows:

	2021	Fiscal Years		Total
		2022	2023	
Base Salary/Wages				-
Fringe Benefits at				-
Subtotal Personnel				-
Operating Expenses		127,000		127,000
Property		-	-	-
Indirect Costs	4.90%	6,223	-	6,223
<b>Total Expenses</b>		<b>\$ 133,223</b>	<b>\$ -</b>	<b>\$ 133,223</b>
<input type="checkbox"/> Estimated revenues not affected				
<input type="checkbox"/> Estimated revenue impact				
Revenue from program				0
Amount of Grant		105,410	-	105,410
City Cash Match		21,590		21,590
City Inkind Match				-
City IDOH		6,223	-	6,223
<b>Total Revenue</b>		<b>\$ -</b>	<b>\$ -</b>	<b>\$ 133,223</b>

These estimates do not include any adjustment for inflation.  
\* Range if not easily quantifiable.

Number of Positions created

COMMENTS: Approval of RFP-2021-154-PRK-CG- SWCA for the Hazardous Mitigation Grant with DHSEM.

COMMENTS ON NON-MONETARY IMPACTS TO COMMUNITY/CITY GOVERNMENT:

PREPARED BY:

APPROVED:

DocuSigned by:  
*Amanda Vigil*  
FISCAL ANALYST

DocuSigned by:  
*David Simon* 7/18/2021 | 1:40 PM MDT  
DIRECTOR (date)

REVIEWED BY:

DocuSigned by:  
*James L. Davis*  
EXECUTIVE BUDGET ANALYST

DocuSigned by:  
*Lawrence L. Davis* 7/19/2021 | 4:38 PM MDT  
BUDGET OFFICER (date)

DocuSigned by:  
*Christina Barner*  
OFFICE ECONOMIST



# City of Albuquerque

Department of Finance and Administrative Services

Timothy M. Keller, Mayor

## Interoffice Memorandum

Date 5/12/2021 | 10:23 AM MDT

**TO:** Sarita Nair, Chief Administrative Officer

**FROM:** David Simon, Director, Parks and Recreation Department

**SUBJECT:** **Recommendation of Award –**  
 RFP Number: RFP-2021-154-PRK-CG  
 RFP Name: Rio Grande Bosque Wildfire Mitigation Services



The Department of Finance and Administrative Services, Purchasing Division, issued the subject solicitation in conjunction with the Parks and Recreation Department for Rio Grande Bosque wildfire mitigation services.

The solicitation was posted on the Purchasing website and advertised in the Albuquerque Journal. The number of responses received for evaluation were five (5).

The Ad Hoc Evaluation Committee evaluated and scored the responses in accordance with the evaluation criteria published in the RFP and recommends award of contract to SWCA, Incorporated.

I concur with this recommendation. Listed below are the composite scores for the top three responses received:

COMPANY NAME	SCORE
SWCA, Incorporated	887
Tetra Tech	831
BRIC LLC	673

The Department that will be managing this contract is Parks and Recreation Department, Open Space Division.

Approved:

DocuSigned by:

5/13/2021 | 3:17 PM MDT

Sarita Nair (Date)

Chief Administrative Officer

Attachment: Scoring Summary



# RIO GRANDE BOSQUE WILDFIRE MITIGATION SERVICES



## SUBMITTED TO

Claire Gonzales  
Senior Buyer, Department of Finance and  
Administrative Services  
City of Albuquerque Purchasing Division  
PO Box 1293  
Albuquerque, NM 87103

REQUEST FOR PROPOSAL RFP-2021-154-PRK-CG  
APRIL 8, 2021

## SUBMITTED BY

SWCA Environmental Consultants  
5647 Jefferson Street NE  
Albuquerque, NM 87109

2136

April 8, 2021

Claire Gonzales  
Senior Buyer, Department of Finance and Administrative Services  
City of Albuquerque Purchasing Division  
P.O. Box 1293  
Albuquerque, NM 87103

**Re: Rio Grande Bosque Wildfire Mitigation Services / RFP-2021-154-PRK-CG**

Dear Ms. Gonzales,

SWCA Environmental Consultants (SWCA) is pleased to submit this proposal to provide environmental services to the City of Albuquerque's Open Space Division (City) for the Rio Grande Bosque Wildfire Mitigation Services Project (Project). SWCA is well prepared to provide the City with a defensible environmental assessment (EA), comprehensive project plan, and associated permits to ensure that a federal grant application for Phase II can be submitted to the New Mexico Department of Homeland Security and Environmental Management by September 30, 2021. We understand this environmental compliance and planning project is imperative for attaining the ultimate objectives of reducing the density of fuels, both standing and on the ground, to prevent the potential spread of wildfire; creating defensible space; and protecting wildlife habitat within 470 acres in Rio Grande Valley State Park.

SWCA is an experienced environmental consultant adept at delivering EAs that are compliant with the National Environmental Policy Act (NEPA) and can be used for agency consultations under the National Historic Preservation Act (NHPA) and the Endangered Species Act (ESA). Our project team will work closely with the City, the New Mexico Department of Homeland Security and Emergency Management, and the Federal Emergency Management Agency to produce an accurate, technically sound, and defensible EA built on a thorough NEPA process. Using our compliance expertise and analysis, our team will develop an implementable project plan, with actions to reduce catastrophic wildfire, protect habitat for threatened and endangered species, reduce infestations of hazardous invasive plants, and protect human life and property from wildfire.

Our team is committed, qualified, and efficient. As you will see in our proposal, SWCA provides a focused project management team comprised of Cody Stropki as project manager and Coleman Burnett as deputy project manager to ensure timely communication and responsiveness to the City and other agencies. In addition, we have assembled a comprehensive team to write the EA, consultation documents for ESA and NHPA compliance, individuals well-versed in Clean Water Act permitting, and an experienced fire planning staff to develop a detailed project plan. In total, this team will ensure the Project is completed on time and the outcomes meet agencies' expectations.

Thank you for the opportunity to offer our services to the City for this important project—we look forward to working with you. If you have questions regarding our proposal, please contact me at (505) 254-1115 or [cstropki@swca.com](mailto:cstropki@swca.com).

Sincerely,



Cody Stropki  
Disaster and Resilience Director, Rockies Region



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# OFFEROR IDENTIFICATION

## FIRM PROFILE

SWCA Environmental Consultants (SWCA) is an employee-owned company of scientists, planners, and technical specialists who combine scientific expertise with in-depth knowledge of permitting and compliance protocols to achieve technically sound, cost-effective solutions for our clients. Our professionals specialize in environmental planning, natural and cultural resources permitting, compliance, and management. SWCA has offices throughout the United States, including in Albuquerque. SWCA is an Engineering News-Record Top 200 Environmental Firm and has been consistently ranked among the top 30 firms in environmental science revenue. We have an established record of providing sound science and creative solutions for private- and public-sector clients nationwide.

SWCA has worked with the City of Albuquerque (City) on over two dozen projects in varying capacities since 2005 and previously held an environmental on-call contract with the City's Parks & Recreation Department, which expired in 2019. Our Albuquerque office has been the center of our fire services work for more than 17 year and brings experience with fire mitigation, protection, and management planning similar in scope to the City's needs. SWCA has produced over 30 county-, regional-, or community-level wildfire protection plans throughout New Mexico and multiple habitat restoration projects focused on hazardous fuels reduction, including habitat restoration in many bosque environments throughout the state.

**28**

YEARS OF EXPERIENCE IN NM

**31**

FIRE PLANNING PROJECTS IN NM

**60+**

FIRE PLANNING PROJECTS NATIONWIDE

**300+**

NEPA PROJECTS IN NM

**400+**

NEPA PROFESSIONALS

## OFFEROR INFORMATION

SWCA Environmental Consultants  
5647 Jefferson St NE  
Albuquerque, NM 87109  
**Organizational Type:** Corporation

**Authorized Executive:** Cody Stropki, Disaster and Resilience Director, Rockies Region, 505.254.1115, [cstropki@swca.com](mailto:cstropki@swca.com)

## STATEMENTS OF AGREEMENT AND COMPLIANCE

SWCA, Inc. is and will be compliant with all laws stated herein.

SWCA, Inc. agrees to the terms and conditions of the draft agreement with no exceptions.

SWCA, Inc. has received Addenda 1 and 2. Please see Appendix D for the signed and acknowledged addendums.

SWCA, Inc. has reviewed the insurance requirements and is able to carry the insurance specified, see Appendix B.



# EXPERIENCE

## CURRENT EXPERIENCE

Over the past 17 years, SWCA Environmental Consultants (SWCA) has developed and delivered wildfire hazard assessments and fire management plans (FMPs) to support the protection of life, property, and infrastructure from wildfire. Our extensive portfolio of wildfire projects, shows are expertise in the assessment of risk and hazard, and the development of effective measures for fire prevention and mitigation. We have become respected leaders throughout New Mexico in wildfire hazard mitigation planning and analysis. We have managed over 60 fire projects throughout the United States, 31 of which were developed in New Mexico, that include community fire planning documents, agency FMP, burned area emergency response plans, and forest restoration projects to reduce the potential effects of inevitable wildfire as well as the post-fire effects. We have worked on multi-agency and multidisciplinary teams to assess and model wildfire hazards and delivered plans highlighting priority areas for hazardous fuel reduction. We have published peer-reviewed literature on burn severity classification, forest thinning and management, and forest and fire ecology for projects throughout New Mexico.

The SWCA team's previous experience will provide the Rio Grande Bosque Wildfire Mitigation Services Project (Project) and the City of Albuquerque (City) with a deep understanding of the impacts wildfire can have on the Rio Grande bosque. In partnership with the City and other stakeholders, we can apply our expertise to developing an effective plan to address the harmful impacts of uncharacteristically severe wildfire. Drawing on our extensive community fire planning experience, including wildfire assessments and mitigation plans in similar bosque environments (i.e., Middle Rio Grande Bosque Community Wildfire Protection Plan [CWPP] [2007], Dona Ana County CWPP [2011], Sandoval County CWPP [2012], Valencia County CWPP [2018], Santa Fe County CWPP [2020]), coupled with our fire and fuels management National Environmental Policy Act (NEPA) experience across the state (e.g., Greater Santa Fe Mountains Landscape Resiliency Project Environmental Assessment [EA], Salinas National Monument FMP EA, South Sacramento Restoration Project Environmental Impact

### FIRE SERVICE AT SWCA

Our fire service line originated in our Albuquerque office almost two decades ago and continues to strengthen and evolve as we stay at the cutting edge of wildfire modeling and hazard and risk assessment.

Statement) and our history of working with the City, SWCA is well equipped to provide the City with a comprehensive compliance document and project plan with implementable wildfire treatment prescriptions.



Figure 1. SWCA’s relevant project experience in New Mexico.

In addition to SWCA’s fire planning and NEPA experience, we also have extensive experience working in the Middle Rio Grande and with the City to help achieve important resource management goals. Table 1 summarizes a few examples of our relevant project experience in the Rio Grande bosque and in the larger Albuquerque metropolitan area.

Table 1. Relevant Project Experience in the Rio Grande Bosque and throughout the City

PROJECT NAME	PROJECT DESCRIPTION	RELEVANCE TO THIS SOLICITATION
Buckman Riparian Ecosystem Restoration Project  Location: Santa Fe County, NM	SWCA assisted the New Mexico Wildlife Federation with complete planning and analysis for a riparian habitat restoration project along the Rio Grande near Santa Fe. The project is on U.S. Forest Service (USFS) and BLM lands and is adjacent to the Buckman Direct Diversion site. SWCA completed the following tasks: <ul style="list-style-type: none"> <li>• baseline studies, including vegetation, vegetation mapping, groundwater, topographic survey</li> <li>• wetland delineation and permitting</li> <li>• biological survey and preparation of the biological evaluation</li> <li>• cultural resources survey and NHPA 106 consultation</li> <li>• preparation of an EA to USFS standards</li> <li>• development of final habitat restoration plans and designs</li> <li>• construction support</li> <li>• stakeholder coordination</li> </ul>	This project demonstrates SWCA’s experience in riparian and bosque restoration planning along the Rio Grande  This project represents SWCA’s experience obtaining necessary environmental compliance approvals and permits to facilitate on-the-ground vegetation treatments.
Candelaria Nature Preserve Resource Management Plan and Wildlife Monitoring	In 2018 and 2019, SWCA supported the development of the Candelaria Nature Preserve Resource Management Plan (RMP) through a collaborative, community-driven process led by the Technical Advisory Group with oversight from the Open Space Advisory Board. The Candelaria	This project demonstrates SWCA’s experience working as a close partner with the City and interested stakeholders as well as our ability

<p>Location: Albuquerque, NM</p>	<p>Nature Preserve (CNP) is to be managed as a nature study area and wildlife preserve providing access to outdoor recreational opportunities for all residents and visitors. The RMP provides the framework for implementing that mandate and helps to ensure compliance with federal Land and Water Conservation Fund regulations and guidelines and the Major Public Open Space Facility Plan.</p> <p>SWCA also conduct preconstruction environmental monitoring of wildlife communities and wrote a biological report to support the implementation of the RMP.</p>	<p>to design a restoration plan aimed at improving wildlife habitat.</p>
<p>Albuquerque Trails Monitoring Project Location: Albuquerque, NM</p>	<p>SWCA was selected by the City's Department of Parks and Recreation to assist with ABQ The Plan: The Rio Grande Vision project. The Rio Grande in Albuquerque is part of Rio Grande Valley State Park and is one of the 25 largest urban parks in the United States. The Rio Grande Vision is a conceptual plan with the stated purpose of connecting Albuquerque to the Rio Grande while protecting this resource. Project objectives include developing a designated trail system, closing user-defined trails, and implementing habitat restoration and other user amenities at designated access hubs. SWCA supported the City's planning efforts by participating in public meetings, describing the baseline environmental conditions, and developing and implementing a study to compare and monitor the ecological impacts of the proposed trail development. The results of the environmental monitoring will influence future management decisions and improvements to Rio Grande Valley State Park.</p>	<p>This project demonstrates SWCA's experience working as a close partner with the City and interested stakeholders to plan for habitat restoration.</p>
<p>Middle Rio Grande Riverine Habitat Restoration Projects Environmental Compliance and Implementation  Location: Throughout the Middle Rio Grande</p>	<p>SWCA completed biological and ecological services and designed and implemented habitat restoration to improve habitat conditions for the silvery minnow and the southwestern willow flycatcher in support of New Mexico Interstate Stream Commission (NMISC) 2003 biological opinion (BO) requirements in the Albuquerque, Isleta, and San Acacia reaches of the Rio Grande. Services included conducting baseline resource studies and restoration planning, public involvement and site visits, completion of the NEPA process with an EA and finding of no significant impact, a biological assessment (BA) and Section 7 consultation, Section 401/404 permits, completion of all access permits, and construction monitoring.</p>	<p>This project demonstrates SWCA's understanding of the various stakeholders and interests in the Middle Rio Grande and our ability to obtain all necessary permits and approvals for restoration activities.</p>
<p>Rio Grande Silvery Minnow Floodplain Habitat Restoration Site Monitoring  Location: Throughout the Middle Rio Grande</p>	<p>SWCA extensively sampled floodplain restoration sites in the Middle Rio Grande to investigate how the silvery minnow utilized these sites. This project was designed to provide information for data gaps in the early life history of this species, help inform conservation measures, and fulfill obligations under the 2016 BO. This project allowed us to characterize important water quality constituents and habitat characteristics that likely contribute to the presence of larvae, as well as spawning adults, at these sites. Data collected during these years provide key information on water management related to the period of inundation necessary to reach the juvenile stage of development, during which survival is increased.</p>	<p>This project represents one of several projects in the Middle Rio Grande, where SWCA has supported the implementation of important resource management goals through field surveys, environmental documentation, and permitting.</p>
<p>Cultural Resources Survey and Environmental Compliance for the NMISC San Acacia Habitat Restoration Project  Location: Socorro County, NM</p>	<p>SWCA completed a 70-acre cultural resources survey along the Rio Grande for the San Acacia Habitat Restoration Project. The NMISC proposed to implement habitat restoration projects along a 17-mile reach of the Middle Rio Grande, immediately downstream of the San Acacia Diversion Dam in Socorro County. Proposed activities included removal of some jetty jacks and anchoring some in place. SWCA recorded 10 separate jetty jack alignments in the bosque, as well as a single isolated historic artifact, and recommended that the proposed project would have no adverse effect to any cultural resources eligible for listing in the National Register of Historic Places. SWCA also completed an EA, a BA, and a wetland delineation for this project.</p>	<p>This project demonstrates SWCA's ability to navigate the NHPA Section 106 compliance process for mitigation and restoration projects within the Rio Grande bosque.</p>
<p>Riparian Habitat Restoration at Four Sites in Doña County, New Mexico: Jaralosa, Yeso East, Yeso West, and Crow Canyon  Location: Doña Ana County, NM</p>	<p>SWCA assisted the U.S. International Boundary and Water Commission (IBWC) with implementation of riparian restoration at four sites in the Rio Grande Canalization Project (RGCP). A total of 19 acres across the 4 sites were restored to a mosaic of native riparian plant communities to meet commitments required in the record of decision and BO for the RGCP. SWCA completed and coordinated riparian habitat restoration activities, including site preparation, invasive species removal, excavation, native</p>	<p>This project demonstrates SWCA's knowledge of riparian restoration protocols, procedures, and treatment costs for restoration activities along the Rio Grande.</p>

	<p>plantings, and post-restoration monitoring. SWCA prepared site-specific restoration plans, supervised contractors to complete earthwork and implement native planting, ensured environmental compliance commitments were met, and conducted two seasons of post-restoration monitoring.</p>	
<p>Berino East and Berino West Riparian Habitat Restoration  Location: Doña Ana County, NM</p>	<p>SWCA implemented river habitat restoration activities in the RGCP on a total of 19.8 acres at two sites as part of the IBWC's effort to restore aquatic habitat and a mosaic of native riparian plant communities to establish habitat for endangered species. SWCA completed and coordinated riparian habitat restoration activities, including site preparation, invasive species removal, excavation, native plantings, and post-restoration monitoring.</p>	<p>This project demonstrates SWCA's experience supervising floodplain rehabilitation and restoration activities, including earthwork and native riparian vegetation planting, environmental compliance regulations, and experience completing construction and postconstruction monitoring.</p>

## KEY STAFF

SWCA's team is organized to provide the City with an experienced, interdisciplinary team with the qualifications to meet all project requirements. The SWCA team provides the following:

- A management team comprised of **Cody Stropki** and **Coleman Burnett**, who have a combined 35 years of experience managing and contributing to projects in New Mexico. Dr. Stropki and Ms. Burnett are readily available to the SWCA team to provide consistency and continuity throughout the duration of the project
- A top-notch fire planning team led by **Vicky Amato** that has led over 30 WPPs and fire management NEPA projects in New Mexico. Supported by an experienced geographic information system (GIS) team that will lead the fire behavior and risk analysis to inform the project plan design
- An experienced team of NEPA authors, biologists, cultural resources specialists, and permitting experts familiar with the region and species with the writing skills to prepare the EA, consultation documents for compliance with the Endangered Species Act (ESA), the NHPA, and the Clean Water Act (CWA)
- The experience and depth of bench available to execute the project on time and within budget
- A proven quality assurance/quality control (QA/QC) process to ensure quality and minimize review time

Brief bios for key personnel and an organizational chart are provided in the Management Summary section of this proposal. Resume for Key Staff are included in Appendix A.

## PAST EXPERIENCE

### CLAUNCH-PINTO SOIL AND WATER CONSERVATION DISTRICT FUELS REDUCTION PROJECT ENVIRONMENTAL ASSESSMENT

**CLIENT**

Dee Tarr, CPSWCD

**PROJECT LOCATION**

Torrance County, New Mexico

**PROJECT TEAM**

Cody Stropki, Project Manager; Vicky Amato, Fire Planner; Jenn Clayton, NEPA Lead; Anne Russell, GIS Lead

**PROJECT TIMELINE**

2019–2020

Funded through FEMA’s Hazard Mitigation Grant Program (HMGP), SWCA supported the Claunch-Pinto Soil and Water Conservation District (CPSWCD) with the development of an EA for the CPSWCD Fuel Reduction Project to reduce the threat of catastrophic wildfire, protect the lives and safety of citizens, create defensible space around residential areas and critical facilities, and promote ecosystem health. Specifically, the project involved thinning vegetation on approximately 135 acres of private lands in Torrance County, New Mexico. Lands treated through the project were all in the wildland-urban interface (WUI) and had been identified in the county CWPP as at high to extreme wildfire risk. The treatments promote defensible space from a wildfire threat for several residential homes. In addition to NEPA support, SWCA also conducted a Class III archaeological investigation of the treatment area to comply with Section 106 of the NHPA. The EA and

decision notice was published in March 2020. Following the NEPA approval, SWCA successfully helped CPSWCD prepare the Phase II application of the New Mexico Department of Homeland Security and Emergency Management (NMDHSEM) sub-grant to implement this wildfire mitigation project. This included the completed EA, the project design, data for the benefit-cost analysis, estimated treatment costs, and assistance in preparing a schedule to complete the project in a timely fashion while meeting the restrictions of the Migratory Bird Treaty Act. The CPSWCD has received the Phase II funding and began implementing the treatments in the fall of 2020 and is expected to complete the project in the spring of 2021.

*Please see the letter of reference from the CPSWCD in Appendix C.*

### LOS ALAMOS COUNTY WILDFIRE MITIGATION AND PUBLIC EDUCATION PROJECT

**CLIENT**

Kelly Sterna, Los Alamos County

**PROJECT LOCATION**

Los Alamos County, New Mexico

**PROJECT TEAM**

Cody Stropki, Project Manager; Anne Russell, GIS Lead

**PROJECT TIMELINE**

2017–2018

Funded through FEMA’s HMGP, SWCA assisted Los Alamos County in completing environmental compliance and planning tasks associated with reducing the threat of catastrophic wildfire and creating defensible space around residential and critical facilities as well as promoting ecosystem health. The project consisted of forest thinning to reduce fuel loading in high resource areas over 114 acres of Los Alamos County–managed lands. Working closely with county officials,



*Figure 2. The project consisted of forest thinning to reduce fuel loading in high resource areas over 114 acres of Los Alamos County–managed lands.*

SWCA coordinated all public involvement for the project, including preparing notices of the proposed action, facilitating a scoping meeting, tracking and responding to public comments,



and drafting and publishing the EA and FEMA decision notice and finding of no significant impact (FONSI). In addition to developing the EA, SWCA prepared specialist reports for wildlife, botany, soils and watershed, and fire and fuels, as well as a biological assessment for sensitive species for consultation on federally listed species with the U.S. Fish and Wildlife Service (USFWS). In addition, SWCA performed cultural resources surveys and report development for NHPA Section 106 consultation. The EA and decision notice were published in February 2019. Successful completion of the NEPA process allowed Los Alamos County to be approved for HMGP funding. With this funding, SWCA assisted the county with preconstruction bird surveys before the forest treatments were completed. This project was the first NMDHSEM multiphase project to be completed in New Mexico.

*Please see the letter of reference from Los Alamos County in Appendix C.*

## VALENCIA COUNTY COMMUNITY WILDFIRE PROTECTION PLAN UPDATE

### CLIENT

Robert Barr, Valencia County

### PROJECT LOCATION

Valencia County, New Mexico

### PROJECT TEAM

Cody Stropki, Project Manager;  
Vicky Amato, Fire Planner;  
Anne Russell, GIS Lead

### PROJECT TIMELINE

2017–2018

SWCA completed the original Valencia County CWPP in 2012 and was contracted to complete the 5-year update in 2017. The Valencia County CWPP addresses wildfire risk and hazard to communities located in the WUI, which includes several high-risk communities located close to the Rio Grande bosque. The original CWPP and update included extensive fire behavior modeling to guide the development of a wildfire hazard and risk assessment as well as risk reduction recommendations related to fire response, hazardous fuel reduction, public education and outreach, and structural ignitability. This collaborative project involved public outreach and multiple stakeholder meetings to inform and build support for wildfire risk mitigation measures across the county. The CWPP identified treatment methods to address wildfire hazard in bosque fuels and included recommended fuel treatment projects based on the wildfire hazard assessment. Specific bosque fuel

treatment projects included island and mid-channel bar treatments to thin fuels (typically invasive species) on established islands and mid-channel bars that propagate the spread of fire laterally and perpendicularly on the river; community chipper days to support private land treatments adjacent to the bosque; fuels management in bosque drains to continue ongoing work carried out by the Middle Rio Grande Conservancy District (MRGCD) to reduce hazardous fuel loading and weed densities in riverside drains for fire mitigation and access, as well as for drain function and maintenance; and prescriptions and mapping developed collaboratively with the core team, to establish appropriate treatment techniques and identify the highest priority areas for treatment.

*Please see the letter of reference from Valencia County in Appendix C.*

### WHAT CLIENTS SAY...

"I would recommend SWCA for developing a working document you can use to meet additional goals and needs in your community regarding WUI issues."

*Rob Barr, Wildland Captain,  
Valencia County Fire Department,  
Valencia County CWPP 2012 and  
2017 Update*



# PROPOSED APPROACH TO TASKS

## TECHNICAL APPROACH

After reviewing the Request for Proposals (RFP) and participating in the pre-proposal conference, the SWCA team has a clear understanding of the City’s expectations for the Project. Furthermore, with extensive fire planning and NEPA experience in the Middle Rio Grande and across New Mexico, SWCA understands the importance of wildfire mitigation planning for the City. SWCA recognizes that the City is looking for qualified consultants to help guide the NEPA, wildfire mitigation planning, and permitting processes that will allow the City to implement effective wildfire mitigation treatments within the Rio Grande bosque. The following sections outline SWCA’s approach to completing this important project to meet the needs of the funding agency, which is ultimately FEMA through the NMDHSEM. Our technical approach is based on our current and past experience with similar projects and our practical experience successfully navigating the NEPA process for our clients.

“ We have already recommended SWCA to colleagues. Thank you for producing a great product for us!” ”

– Jenny Hall, Josephine County, Oregon Emergency Manager, Rogue Valley Integrated Fire Plan, 2017

## PROJECT KICK-OFF AND REVIEW EXISTING DATA

Beginning with the facilitation of a Project kick-off meeting to review the communication protocols and schedule, Dr. Stropki and Ms. Burnett will foster clear, frequent communication via email updates and conference calls throughout the Project. As part of the kick-off meeting and 2 weeks following, the SWCA team will review existing data for the project area; schedule field surveys, if necessary, to collect additional data to inform the EA, project plan design, and associated permits; and work with the City to identify the proposed action to be analyzed in the EA along with any alternatives that may need to be analyzed to comply with NEPA.

SWCA will work with the City and FEMA to develop a brief public involvement strategy necessary for the EA and for the City’s desire to distribute the draft project design plan for public review. This public involvement strategy will identify the appropriate stakeholders to notify of the proposed project and to engage in the development of the EA and/or project plan design. As part of this task, SWCA will develop and maintain a project mailing list in coordination with the City. The mailing list will include names and contact information for all collaborative partners

and other potentially interested or affected parties to the project. SWCA will also gather and include contact information for any other public individual or entity that may express interest in the project. SWCA will update the mailing list as needed for changes in names or addresses of public contacts and provide those updates to the City. SWCA will ensure that the mailing list is up to date each time public notifications are released to the public.

## DATA GATHERING

Following receipt of project files, SWCA will conduct an extensive pre-field records search to compile lists for USFWS threatened, endangered, and candidate species as well as New Mexico state-listed threatened and endangered species with the potential to occur within and immediately adjacent to the project area and their associated ecological habitat requirements. In addition, SWCA will conduct a desktop analysis of the project area to characterize baseline vegetation and wildlife habitat using information sources, such as existing technical reports, Natural Heritage New Mexico/NatureServe (vegetation community maps and information on the distribution of special status species), the Southwest Regional Gap Analysis Project (land cover maps), and Natural Resources Conservation Service Web Soil Survey.

Following this process, SWCA will compile a data request for any additional information that is not available from public sources required to complete comprehensive resource analysis.

## ENVIRONMENTAL ASSESSMENT

SWCA will prepare an EA that is concise and meets the requirements of FEMA's NEPA guidance. The EA will be organized to include all required elements, and SWCA will take advantage of opportunities to streamline as much as possible to provide concise, defensible, and sound NEPA analysis. SWCA is very familiar with the FEMA EA template, structure, and analysis preferences and will follow this standardized format to ensure a streamlined review and approval process. The development of the EA will include document stages of the administrative draft, public draft EA, and final EA that incorporate both agency review and response to public comments at the appropriate stages.



Figure 3. Aerial view of the Rio Grande bosque.

## COGNIZANT AGENCY CONSULTATION

Following the data gathering and review process, SWCA will work to contact consulting agencies, including but not limited, to the New Mexico State Historic Preservation Office (SHPO), USFWS, U.S. Army Corps of Engineers (USACE), MRGCD, U.S. Bureau of Reclamation (Reclamation), and Environmental Protection Agency (EPA), with a scoping letter that a NEPA process is being undertaken with a supporting description of the proposed action. SWCA will work to establish communication pathways with appropriate points of contact at coordinating agencies to ensure requests for concurrence and/or additional information required to complete the EA can be attained.

## REGULATORY REVIEW AND AGENCY MEETING

To help inform development of the proposed action and any alternatives to be considered in the EA, SWCA will host a virtual internal scoping meeting with the City and NMDHSEM representatives, as well as other coordinating

agencies, to determine and discuss the issues and resource concerns that will be addressed in the EA analysis. During this meeting, the SWCA NEPA team will present its preliminary determinations of resource issues, impact-causing elements of the proposed action, and EA analysis strategies for agency review and concurrence. SWCA resource and planning specialists will be available to support the City and the NMDHSEM in developing any applicant-committed environmental protection measures to address identified potential impacts.

## **PREPARE ADMINISTRATIVE DRAFT ENVIRONMENTAL ASSESSMENT**

The EA will include the following major sections, with appropriate tables, figures, and graphics:

### ***Chapter 1: Introduction***

SWCA will draft a concise Chapter 1 (Introduction), including relevant sections containing the project background overview area and the purpose and need statement for agency approval. Per FEMA guidance, a section describing the following points will also be included: 1) Who is submitting the proposal or grant application for FEMA funding; 2) the FEMA program under which funding is being sought; and 3) a description citing the NEPA requirements. This will be followed by a brief list of paraphrased planning issues identified during scoping to set the stage for alternatives development.

### ***Chapter 2: Alternatives***

SWCA will develop a complete Chapter 2, including a detailed description of the proposed action and no action alternatives. Additionally, the discussion will address all alternatives that were fully considered to address the purpose and need statement as well as the no action alternative. This section will include any alternatives that were considered but not carried forward for detailed analysis and will provide a defensible and clear rationale for elimination of that action.

Following the completion of an initial draft of EA Chapters 1 and 2, SWCA will coordinate an interim review to ensure that the proposed action is accurately described prior to analyzing the resource impacts. The interim review is optional but is often beneficial for both the client and SWCA, as it will identify any issues or discrepancies early in the EA process.

### ***Chapter 3: Affected Environmental and Potential Impacts of the Alternatives Considered***

After addressing any comments or requested edits from the interim review, SWCA will author all applicable resources sections addressing the affected environment and potential impacts of the alternatives considered. Each resource section will clearly articulate the analysis area; a description of the affected environment; applicable laws and regulations; and potential direct, indirect, and cumulative impacts per alternative per the FEMA EA outline. Section may include, but are not limited to, the following:

- Physical resources (soils, terrain/topography, visual/scenic quality, geology, air quality and climate change)
- Water resources (hydrology, wetlands, and floodplains)
- Biological resources (vegetation, wildlife, threatened and endangered species and designated critical habitat, fire protection service, and areas with special designations)
- Cultural resources (archaeological and historic resources (historic properties), and Native American cultural and religious sites)
- Socioeconomic Resources (environmental justice, access and circulation, noise, traffic, public health and safety)

Additionally, Chapter 3 of the EA will contain a section detailing the project coordination and applicable permits. This section will describe all permits typically required for the action proposed (i.e., USACE Section 404 permit or stormwater pollution prevention plan [SWPPP]).

#### ***Chapter 4: Summary***

Per the FEMA EA outline, a summary chapter will be developed, including a section overview of the proposed action and no action alternative evaluated in the document. The chapter will also include a table summarizing the assessment categories (analyzed resources) and the determinations of impacts/effects per alternative to allow for clear and concise comparison.

#### ***Chapter 5: Agency Consultations***

This chapter will include both a list of all literature cited within the NEPA documents as well as a list of all federal, state, and local agencies that were consulted during the preparation of the EA.

#### ***Chapter 6: List of Preparers***

This chapter will include a list of all individuals (SWCA and agency) who participated in the preparation of the EA along with their affiliation.

#### ***Chapter 7: Public Involvement***

This section of the EA will document the public involvement portion of the NEPA process. Copies of any and all public notices will be attached with posting platforms and dates. Additionally, documentation of substantive public comments and agency responses will be developed and included.

#### ***Chapter 8: Supporting Materials***

Appropriate front and back matter (such as a glossary of terms, a list of abbreviations, and appendices) will be included. Appendices will include project maps, photographs, and supporting permits as needed.

Following the development of the administrative draft, SWCA will submit the EA to the City, the NMDHSEM, and FEMA for a 20-business day review and comment period. To assist in timely and substantive review, SWCA will provide the administrative draft EA with line numbers to allow for reviewers' easy reference as well as an accompanying comment worksheet. This will allow rapid summary and response to client and agency staff comments and clear tracking of any necessary document revisions.

### **PUBLIC DRAFT ENVIRONMENTAL ASSESSMENT**

Following review by the City and NMDHSEM officer(s), SWCA will revise the EA to address all comments and prepare a Section 508-compliant public draft EA so that it can be posted online for public review. SWCA will assist the City with notifying members of the public on the project mailing list that the public draft EA is available for the 30-day review period.

Following the public review period, SWCA will compile and provide draft responses for all public comments and prepare a track changes version of the EA with proposed revisions for City, NMDHSEM and FEMA review and approval.

### **FINAL ENVIRONMENTAL ASSESSMENT AND FINDING OF NO SIGNIFICANT IMPACT**

Following public comment and the agency review of revisions, SWCA will prepare a Section 508-compliant final EA. In conjunction, SWCA will draft the FONSI document for agency review and approval and then finalize the FONSI based on their comments and requested edits.

At each stage of EA development, SWCA will provide senior QA/QC review of the EA, as well as professional technical editing and Section 508–compliant formatting of the EA, data management, and GIS support for the NEPA process. SWCA will manage the project schedule and communications among the City, the NMDHSEM, FEMA, and other key stakeholders as identified by the City to make sure information that is disseminated is accurate and timely.

**Environmental Assessment Checklist**

The RFP also requests an EA checklist that summarizes the environmental review process for the Project and demonstrates compliance with the requirements of applicable regulations and environmental laws. SWCA will compile this checklist as part of EA development, and this checklist will reflect the applicable permits that must be obtained for project implementation and the status of those permits at the date of the signed FONSI.

**EA-RELATED TASKS**

**Cultural Resources Investigation for National Historic Preservation Act Section 106 Compliance**

**Cultural Resources Background Literature Review**

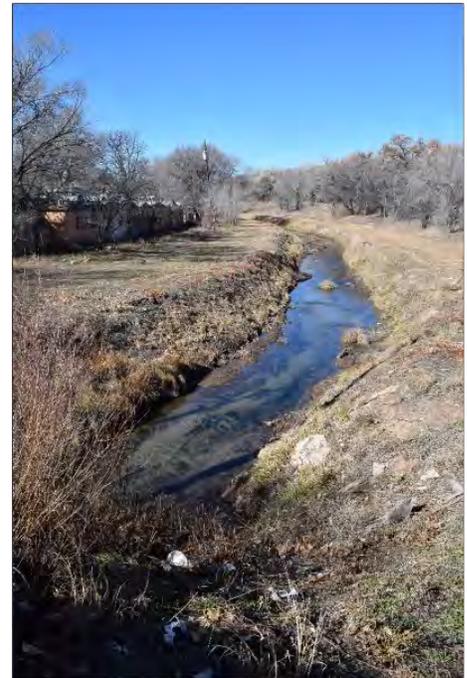
For this investigation, SWCA will support the City in determining the required level of effort for project compliance with Section 106 of the NHPA, through consultation with SHPO as well as the New Mexico State Parks archaeologist as needed. Our initial step in this process will be a search of the online database of the New Mexico Cultural Resources Information System (NMCRIS), to gather information on previous cultural resources surveys and archaeological sites and/or historic cultural properties (buildings, structures or objects) within or intersecting the project area.

**Field Survey**

A preliminary review of the NMCRIS database indicates that the proposed project area has been covered by several overlapping cultural resources surveys, resulting in the documentation of a number of archaeological sites and historic structures. All of these investigations occurred more than 17 years ago, however, and it is likely that SHPO would determine that a new survey of the Project’s area of potential effects (APE) is needed, per current state requirements under New Mexico Administrative Code 4.10.15: Standards for Survey and Inventory.

The purpose of this investigation would be to inventory and evaluate all cultural resources within the APE for their eligibility to the National Register of Historic Places (NRHP); assess potential Project-related effects to the resources; and provide management recommendations for avoiding, minimizing, and/or mitigating any identified adverse effects to any properties that are recommended or determined eligible for the NRHP.

The resources that have been previously recorded in the project vicinity are primarily historic structures that are part of the MRGCD system, including irrigation canals and drains and associated water control features such as river diversion structures. The remains of two highway bridges over the Rio Grande have also been recorded as archaeological sites in the area, including the structural remnants of the 1928 bridge that has since been replaced at Bridge Boulevard and the 1930 bridge that was replaced at Central Avenue. The new survey of the project area, if required, would consist of SWCA cultural resources specialists walking the entire proposed project area at 15-meter-wide transect intervals to identify and record any new archaeological sites or historic cultural properties



*Figure 4. Atrisco Riverside Drain, a part of the MRGCD system.*

as well as to revisit and update the recordings of the previously documented resources and assess potential effects from the new proposed undertaking.

The survey will be of sufficient intensity to determine the nature, extent, and potential significance of any cultural resources located within the proposed impact areas. The previously documented sites, and any newly discovered, will be documented and plotted on U.S. Geological Survey 7.5-minute historical topographic maps and appropriate project maps for planning purposes. Handheld global positioning system (GPS) units will be used to provide accurate, fast plotting of site areas in relation to proposed impact areas. Artifacts and cultural features will be mapped, photographed, and analyzed in the field according to current applicable state and federal standards. Cultural resource locations will be recorded on New Mexico Laboratory of Anthropology Site Record forms or on Historic Cultural Property Inventory forms, as appropriate, and an NRHP eligibility recommendation will be made for each resource based on current surface expression and any past documentation.

### Report Production

Once the cultural resources survey has been completed, SWCA will prepare a report on the results of this investigation, in conformance with all state and federal requirements. The report will document the methodology used in the investigation, the environmental setting and cultural-historical context, the presence and condition of previously and newly recorded resources encountered during the survey, recommendations on their significance and eligibility for inclusion in the NRHP, and an assessment of potential project effects. Draft copies of the report and any associated resource recording forms will be submitted for client/agency review and comment. Upon the incorporation of comments, a final report and forms will be prepared and submitted. The eligibility recommendations and assessment of effects resulting from the cultural resources survey will be summarized in the EA and will form the basis for any mitigation recommendations warranted pertaining to potential significant impacts to NRHP-eligible cultural resources.

### ***Biological Survey and Evaluation for Endangered Species Act Section 7 Compliance***

#### Surveys and Documentation

SWCA biologists will conduct a biological survey of the project area to document and map vegetation communities and habitats, compile a list of all plant and wildlife species observed on and directly adjacent to the project sites; record indications of breeding activities (dens, nests, etc.); and assess the habitat within the project area for its potential to support special status plant and wildlife species known to occur in the vicinity of the project area. The results will be used to qualitatively characterize vegetation and sensitive habitats in the project areas and to obtain sufficient data to make informed statements regarding the potential for occurrence of federal and state special-interest plant and animal species within the project areas and incorporate this information into the EA.

Based on the field survey, SWCA will support the City and FEMA with development of effect determinations for federally listed species. If the Project will result in potential adverse effects to species, then SWCA will draft a consultation letter on behalf of FEMA and the City to the USFWS documenting the potential effects. This documentation will be used to demonstrate compliance with the ESA, both in the FONSI and Phase II grant application to be submitted to the NMDHSEM.



*Figure 5. The Rio Grande bosque near old town Albuquerque.*

### ***Clean Water Act Permitting***

As requested in the RFP, our CWA permitting experts, Jesse Shuck and Alex Simons, will evaluate the proposed project plan design to determine if a SWPPP and/or CWA Section 404 permit will be required to permit the Project. Section 404 of the CWA regulates the discharge of dredged or fill material into U.S., including wetlands. Based on SWCA's experience with similar wildfire mitigation projects, we anticipate discharge of dredged or fill materials to waters of the U.S. is unlikely to result from the wildfire mitigation treatments identified in the project plan. If a CWA Section 404 permit is necessary due to the proximity of the Rio Grande, wetlands, or other waters of the U.S. to the proposed treatment areas, SWCA will work with the USACE to identify the appropriate nationwide permit that may apply to the proposed discharge to waters of the U.S. Under this permitting scenario, SWCA will prepare the appropriate permitting documentation, such as a preconstruction notification, for review by the USACE. In addition, a CWA Section 404 permit will also trigger a Section 401 water quality certification from the New Mexico Environment Department (NMED). SWCA will coordinate the Section 404 and 401 permits with the USACE and NMED.

Under CWA Section 402, a construction stormwater general permit is required if a construction project has the potential to discharge stormwater to surface waters and will either disturb 1 or more acres of soil. If a CWA Section 402 permit is triggered by treatments identified in the project plan, SWCA will develop a SWPPP in coordination with the City to identify erosion control best management practices to be included in the SWPPP, and we will also file a notice of intent (NOI) with the EPA.

## **PROJECT PLAN DESIGN**

The SWCA team will utilize the EA, permitting, and analysis to develop a project plan that will incorporate implementable projects to address wildfire risk.

SWCA will work collaboratively with the City and project stakeholders identified during the development of the public involvement strategy to develop local priorities for recommended hazardous fuel treatments and management of invasive species. SWCA proposes to utilize our proven wildfire hazard analysis approach to model potential fire behavior under existing conditions to inform the prioritization process. This approach uses fire behavior models housed within the Interagency Fuel Treatment Decision Support System (IFTDSS) to generate predicted flame lengths; rates of spread; and fireline intensity under existing fuel, weather, and topographic conditions. We can then use the IFTDSS to run various fuel treatment scenarios to determine fuel treatment locations and specifications that would create the greatest mitigation of extreme wildfire behavior. We will use this information, in conjunction with existing baseline data on vegetation and fuels, agency FMPs, local knowledge, the EA analysis and permitting requirements to develop a series of comprehensive fuel treatment maps for hazard areas, to inform the development of the fuel treatment plan in collaboration with City staff.

Recommendations for wildfire mitigation will not only be based on existing conditions but will also address potential future conditions through the incorporation of available data on drought and climate projections and input from local agency specialists. Various mechanical, biological, chemical, and prescribed fire hazardous fuels treatments will be discussed and evaluated based on their suitability and effectiveness and by taking into account the EA analysis process, WUI considerations, cost effectiveness, and safety constraints. SWCA, in cooperation with City staff and agency stakeholders, will use the risk assessment process described above to identify optimal prescriptions to treat hazardous fuels, downed woody materials, and invasive species and will include methodologies, specifications, and a treatment schedule for successfully implementing the plan.

An important component when determining fuel treatment procedures is to incorporate restoration practices that are currently being implemented throughout the area. SWCA will work with the City and stakeholders to ensure that all proposed treatments are aligned with existing programs of work to address invasive species and fuels



management. Another significant component of the project plan and prescriptions for fuel thinning will be developing a monitoring and maintenance schedule to ensure treatment effectiveness and long-term sustainability. As part of that process, SWCA proposes to develop an invasive species mitigation plan that includes herbicide application protocols to target Siberian elm, tamarisk, Russian olive, tree-of-heaven, and mulberry specifically.

For the proposed treatment areas, SWCA will work with the City and stakeholders to plan revegetation activities that would coincide with biological evaluations completed for the EA. Our experienced ecologists and biologists would base the revegetation plan on a thorough assessment of environmental conditions, species composition, and potential for success in returning the area to a natural state under a changing climate. Please refer to Table 1 to see SWCA's experience working with the U.S. IBWC to complete a very similar scope of work.

SWCA will provide the project plan and all associated GIS analysis and mapping to the City in electronic format as well as one original and two hard copies of the draft and final project plan design.

## **PLANNING-RELATED TASKS**

### ***Public Notification***

SWCA will work with the City to implement the public involvement strategy and notify the public about the draft plan. SWCA understands the City will release the draft project plan design for public review, concurrently with the draft EA 30-day public review period. SWCA will work with the City and other stakeholders to revise the project plan design to address public comments.

### ***NMDHSEM Sub-Grant Phase II***

Upon completion of all the environmental compliance and permitting steps described above, SWCA has allocated up to 22 staff hours to assist the City with compiling the necessary documents, benefit-cost analysis, and cost estimates for Phase II of the NMDHSEM sub-grant to implement the Project. Ms. Burnett will lead this effort on behalf of SWCA to ensure the City receives the necessary information to satisfy the federal grant application. Ms. Burnett has experience working with other federal grant funding sources through her time as a nonprofit grant writer. Dr. Stropki will also support this task and can help inform the data needed to complete the benefit-cost analysis and the treatment cost estimates based on his previous experience supporting Rio Grande bosque restoration projects.

## SCHEDULE AND DELEGATION OF TASKS

SWCA is committed to completing this project on time and within budget. Table 2 illustrates SWCA's proposed schedule for meeting all environmental compliance requirements by August 31, 2021. SWCA will also support the City with compiling the NMDHSEM grant application for Phase II in September 2021. The proposed schedule is based on receiving the notice to proceed from the City by April 16, 2021.

*Table 2. Delegation of Team Members and Staff Hours to Accomplish Each Proposed Task*

Task	SWCA Team Members Assigned		Allocated Staff Hours
Project Kick-Off with the City and Ongoing Project Management	Cody Stropki	Coleman Burnett	36
Review Available Resource Data and Agency Scoping	Vicky Amato Jenn Clayton Alex Simons	Anne Russell Ari Porter Jason Glenn	34
Environmental Assessment and FONSI	Cody Stropki Coleman Burnett Jenn Clayton Alex Simons	Paul Makarewicz Heidi Orcutt-Gachiri Kimberly Proa Matt DeFreese Jason Glenn	166
Cultural Resources Investigation for NHPA Section 106 Compliance	Teresa Hurt Megan Weldy Paisley DeFreese Matt DeFreese	Danielle Desruisseaux Kelly Cox Tasha Martz	467
Biological Survey and Evaluation for ESA Section 7 Compliance	Coleman Burnett Jenn Clayton Kimberly Proa Matt McMillan	Ian Dolly Matt DeFreese Jason Glenn Tasha Martz	94
Clean Water Act Compliance, Section 404 Permitting	Coleman Burnett	Jesse Shuck	14
Clean Water Act Compliance, Stormwater Pollution Prevention Plan	Coleman Burnett Alex Simons Paul Makarewicz	Kimberly Proa Matt DeFreese Jason Glenn	44
Project Plan Design	Cody Stropki Vicky Amato Paul Makarewicz Heidi Orcutt-Gachiri	Kimberly Proa Anne Russell Ari Porter Jason Glenn	99
Assist City with NMDHSEM Sub-Grant Phase II	Cody Stropki Coleman Burnett	Alex Simons Anne Russell Ari Porter	22
<b>Total</b>			<b>976</b>

TASK	SCHEDULE							
	Dates		2021					
	Start	End	Apr	May	Jun	Jul	Aug	Sep
NTP issued by City	4/16/2021	4/16/2021						
Project kickoff and ongoing project management	4/16/2021	9/30/2021						
Review existing data	4/19/2021	4/30/2021						
<b>NATIONAL ENVIRONMENTAL POLICY ACT COMPLIANCE</b>								
Host Agency Scoping Meeting	4/26/2021	4/26/2021						
Write Draft EA	5/1/2021	5/31/2021						
Draft EA submitted to agencies for 20-day review period	5/31/2021	6/11/2021						
Revise Draft EA to address agency comments	6/14/2021	6/18/2021						
Publish Draft EA for 30-day review period	6/28/2021	7/27/2021						
Finalize EA based on public comment	7/26/2021	8/6/2021						
Draft FONSI for agency signature	8/9/2021	8/13/2021						
FONSI submitted to agencies for 10-day review period	8/16/2021	8/27/2021						
Finalize FONSI	8/30/2021	8/31/2021						
<b>ENDANGERED SPECIES ACT SECTION 7 COMPLIANCE</b>								
Conduct biological field survey	4/26/2021	4/30/2021						
Write biological report to support consultation with USFWS	5/3/2021	5/21/2021						
Submit report to USFWS (assumes informal consultation under ESA)	5/24/2021	6/23/2021						
Receive concurrence from USFWS	6/28/2021	6/28/2021						
<b>NATIONAL HISTORIC PRESERVATION ACT SECTION 106 COMPLIANCE</b>								
Conduct cultural resource investigation and write report	4/26/2021	6/25/2021						
Submit report to agencies for 15-day review period	6/28/2021	7/16/2021						
Revise cultural report to address agency comments	7/19/2021	7/23/2021						
Submit report to SHPO	7/26/2021	8/26/2021						
Receive concurrence from SHPO	8/30/2021	8/30/2021						
<b>CLEAN WATER ACT COMPLIANCE</b>								
Write Stormwater Pollution Prevention Plan	7/26/2021	8/13/2021						
File Notice of Intent with EPA	8/16/2021	8/27/2021						
Submit application/notice for CWA Section 404 permit	7/26/2021	7/30/2021						
Receive approval from USACE under CWA Section 404/401	8/1/2021	8/31/2021						
<b>PROJECT PLAN DESIGN</b>								
Draft project plan design	5/3/2021	5/28/2021						
Draft plan submitted to agencies for 20-day review period	5/31/2021	6/11/2021						
Revise plan to address agency comments	6/14/2021	6/18/2021						
Public review period (concurrent with EA public review)	6/28/2021	7/27/2021						
Finalize plan	8/9/2021	8/31/2021						
<b>FEDERAL GRANT APPLICATION</b>								
Compile and submit DHSEM application package for Phase II	9/1/2021	9/30/2021						

Figure 6. Project schedule.



# MANAGEMENT SUMMARY

## KEY PERSONNEL AND RESPONSIBILITIES

SWCA has assembled a team of experienced professionals to successfully complete the scope of work identified to develop an EA, the project plan design, and associated permits for the Project. The SWCA Team offers a robust and expert staff that is supported by a large permanent staff of specialists in fire planning, natural resources, environmental compliance, and community planning when necessary. The permanent availability of this substantial scientific and technical support network will allow the SWCA project team to utilize the resources necessary to produce top quality deliverables on schedule and within budget. Resumes for our project team are included in Appendix A.

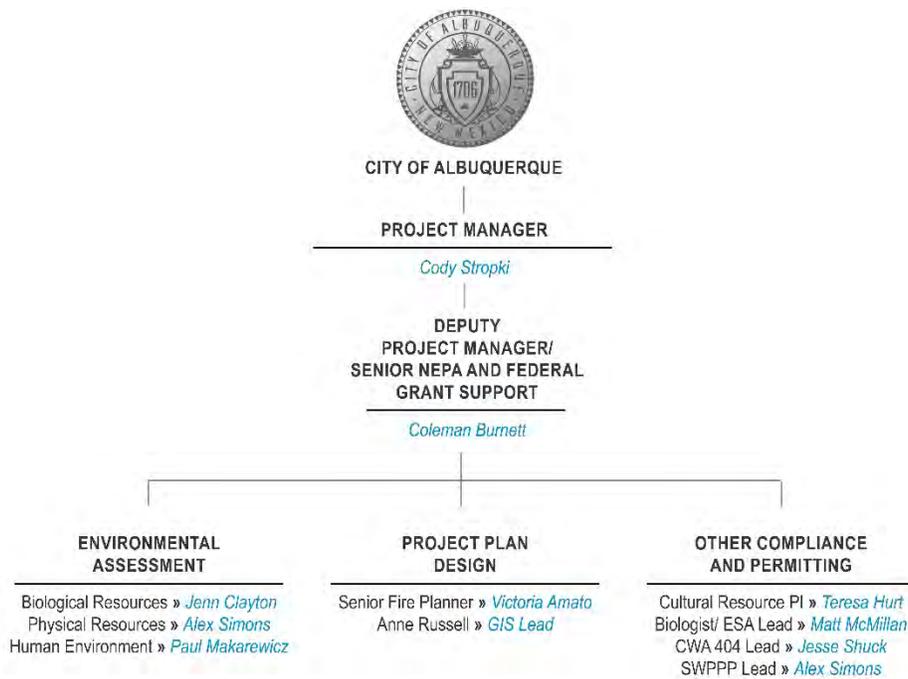


Figure 7. SWCA organizational chart.

## DR. CODY STROPKI

### PROJECT MANAGER

Dr. Stropki is a certified fire ecologist and watershed science expert. He has considerable knowledge of wildland fire science, including 20 years of professional and academic experience. His work in fire ecology has been focused on wildfire risk management, post-fire restoration, and post-fire ecosystem monitoring. While at SWCA Dr. Stropki has managed numerous projects throughout New Mexico, primarily focused on wildfire risk management, ecological and hydrologic restoration, and ecosystem monitoring. These projects include the Los Alamos County Wildfire Mitigation and Public Education Project; CPSWCD Fuel Reduction Project EA; Ute Park Fire Burned Area Emergency Response Team Project; U.S. IBWC habitat restoration projects; the Abo Arroyo River Ecosystem Restoration Initiative; and the Otero, Sandoval, Valencia, and Chaves County CWPPs. He has overseen several tasks, including EA development for previous FEMA projects, coordinating and supervising field crews, obtaining the necessary CWA Section 401 and Section 404 permits, and designing and implementing restoration plans in bosque habitat. Dr. Stropki has authored or coauthored more than 20 technical and peer-reviewed publications ranging in topics from wildfire effects on natural resources to conservation and restoration plans for local soil and water conservation districts. He also brings the experience of working with clients in assisting with the submittal of the required information to the NMDHSEM for both Phases I and II of the sub-grant agreements that allow for development and implementation of fuel reduction projects.

**Responsibilities:** Dr. Stropki will be responsible for managing communications and serve as the lead point of contact with the City, the NMDHSEM, and FEMA, as needed. He will ensure the availability of all project team staff to complete their assigned tasks within the schedule presented above. Dr. Stropki will be responsible for managing the overall project, budget/invoicing, and maintaining the project schedule.

## COLEMAN BURNETT

### DEPUTY PROJECT MANAGER/SENIOR NEPA AND FEDERAL GRANT LEAD

Ms. Burnett is a senior project manager (PM) and environmental planner with experience in NEPA, environmental compliance for land use planning on public lands, proposed infrastructure projects, public meeting facilitation, and natural resources management. She has managed many forest restoration, emergency management, and fire management planning NEPA documents for FEMA, the National Park Service (NPS), and the U.S. Forest Service (USFS). Ms. Burnett has experience managing the environmental compliance process for numerous projects, including CWA permitting, consultation with the USFWS, consultation with SHPO, and NEPA documentation. She has developed NEPA documents for a range of agencies, such as the Bureau of Land Management (BLM), USFS, NPS, FEMA, Bureau of Indian Affairs (BIA), Rural Utilities Service, Federal Highway Administration, and Department of Housing and Urban Development. She also has experience compiling and submitting federal grant applications through her previous employment as a nonprofit development coordinator, where she was responsible for writing and reporting on successful grants provided by federal agencies.

**Responsibilities:** Ms. Burnett will be responsible for coordinating all fieldwork, overseeing the development the FEMA EA, and coordinating with any other agency stakeholders. She will also manage the development of the related agency consultation documents for submission and review by the City, the NMDHSEM, FEMA, SHPO, USFWS, and the USACE. Ms. Burnett will also be the secondary point of contact to the City, ensuring availability at all times. Ms. Burnett will be the provide support to the City when it is time to compile the Phase II grant application to the NMDHSEM. She has a history of successfully managing projects of similar size and scope and keeping projects on time and budget.

## VICTORIA AMATO

### SENIOR FIRE PLANNER

Ms. Amato is a fire planning specialist, with a diverse academic background in fire planning, forestry, fire ecology, and resource management. While at SWCA, she has developed over 40 CWPPs and FMPs, serving as PM or technical lead. Ms. Amato's experience ranges from frequent fire regime communities in New Mexico and Colorado, to pine barrens surrounded by suburban communities in Long Island, New York, to the spruce forests and tundra of Alaska. She routinely works with a variety of land management agencies across the United States, including local governments, state agencies, and the USFS, BLM, Reclamation, BIA, and NPS studying fuel reduction treatments, forest stand structure, fire behavior, remote sensing classification, and monitoring of burned areas. She has completed classes and coursework in forest and vegetation management, silviculture, forest ecology, ecological restoration, fire ecology, fire behavior, and fire management and is familiar with fire modeling using the IFTDSS, FlamMap, FIREMON, FARSITE, BehavePlus, and First Order Fire Effects Model. Ms. Amato has completed a national Firewise training workshop that further developed her knowledge of structural ignitability, fire behavior, and the WUI. She has worked on multiple forest restoration projects throughout the country, carrying out both NEPA compliance work and forest planning and monitoring that incorporated youth education and training. Through these projects, she has developed her understanding of forest management in a range of forest cover types and has gained valuable experience in the evaluation of fire risk and mitigation.

**Responsibilities** Ms. Amato will serve as the fire planning lead, facilitating the development of the project plan design and developing the plan's hazard and risk assessments.

## JENN CLAYTON

### NEPA LEAD

Ms. Clayton is an environmental scientist and NEPA planner. She is professionally trained in project management, NEPA compliance and permitting, and resource management planning and has a strong background in ESA compliance. She has extensive experience conducting biological surveys, including for terrestrial and aquatic threatened and endangered species and associated critical habitat, forest inventory, and wildfire risk assessments. She has 6 years of experience working with private, federal, state, tribal, and local clients on a range of projects, including energy development (transmission, solar, wind, oil and gas), forest restoration, and agency land use plans (resource management plans and fire mitigation plans).

**Responsibilities:** Ms. Clayton will serve as our team's NEPA lead and will be responsible for coordinating public involvement, reviews, and notices and the development of NEPA documents. Ms. Clayton will lead the drafting of the EA, including conducting content and compliance reviews, coordinating agency reviews, ensuring the completion of requested revisions, and answering questions from other SWCA authors. Having written EAs for similar forest restoration projects in New Mexico, including contributions to the CPSWCD Fuel Reduction Project, Ms. Clayton is familiar with the common issues and analysis needed to successfully complete the EA for FEMA's approval.

## ALEX SIMONS

### EA AND SWPPP AUTHOR

Ms. Simons, an experienced natural resources specialist and environmental planner, will serve as an EA author for physical resources and lead the development of the SWPPP. Her expertise in natural resources includes over 11 years of experience in land restoration and reclamation planning, environmental compliance and permitting,

and NEPA reporting. She also has over 8 years of experience working with private, federal, state, and local agencies in California and the Four Corners region. Ms. Simons led the CPSWCD Fuel Reduction Project, and her experience with FEMA's EA requirements will benefit the City as she supports this Project in a similar capacity.

**Responsibilities:** Ms. Simons will be responsible for implementing the public involvement strategy, writing assigned sections of the EA, and leading the development of the SWPPP.

## PAUL MAKAREWICZ

### EA AUTHOR

Mr. Makarewicz is an environmental planner focusing on NEPA compliance. Mr. Makarewicz has extensive and varied experience with wildfire suppression, prescribed fire treatments, timber stand improvement, timber cruising, and fuels management, which he acquired during his professional experience working for the USFS. He has worked in conjunction with private, federal, state, and tribal agencies for 10 years. During his tenure, he has achieved multiple USFS professional certifications. At SWCA Mr. Makarewicz specializes in NEPA compliance and technical report writing for energy infrastructure projects located in southeast New Mexico. Mr. Makarewicz has authored more than 25 EAs on the behalf of the BLM Carlsbad Field Office, which includes addressing impacts to the human and natural environment.

**Responsibilities:** Mr. Makarewicz will be responsible for writing assigned sections of the EA, supporting the development of the SWPPP, and assisting with the development of treatment prescriptions in the project plan design.

## ANNE RUSSELL

### GIS LEAD

Ms. Russell's experience includes a broad array of spatial applications, from initial project planning to data collection and integration, data management, geospatial analysis, and final map production. Ms. Russell has extensive experience with fire modeling, including climate and weather analysis, custom fire behavior modeling, exposure analysis, WUI modeling, fuel treatment modeling, and risk and hazard analysis. Ms. Russell has been the GIS lead for multiple WPPs at SWCA, including in Illinois (Pope County), California (Santa Clara County), New Mexico (Valencia, Sandoval, Torrance, Chaves, Santa Fe, and Grant Counties), Pennsylvania (McKean and Elk Counties), and Alaska (Kenai Peninsula Borough) as well as WPPs for multiple transmission co-ops in Utah. She also brings her considerable graphic design experience to bear in producing high-quality, interactive ArcGIS story maps and hubs for fire planning projects. Her technical expertise includes proficiency with Esri ArcGIS ArcInfo Workstation and Desktop, ArcGIS Pro, ArcGIS Online web and mobile applications (including Collector, Survey123, dashboards, web apps, and story boards), ArcGIS Enterprise and Portal, Spatial Analyst and 3-D Analyst extensions, Microsoft Office applications, IFTDSS, FlamMap, FARSITE, FireFamilyPlus, and other fire modeling software.

**Responsibilities:** Ms. Russell will be responsible for managing geospatial data, analyzing data and modeling fire behavior, as she has done for past WPPs and wildfire-related NEPA documents.

## JESSE SHUCK

### CWA 404 PERMITTING LEAD/BIOLOGIST

Mr. Shuck is an environmental scientist with more than 17 years of experience conducting environmental surveys for projects throughout New Mexico. He is familiar with compliance concerns regarding the CWA, ESA, the Bald and Golden Eagle Protection Act, and conducts threatened and endangered species-specific surveys throughout the Southwest. Mr. Shuck will lead the natural resources field aspect of this project. He is adept at working with state and federal landowners, including the USFS, New Mexico Department of Game & Fish, BIA, BLM, Reclamation, and NPS. His prior projects have included habitat restoration planning, wetland field investigations and CWA permitting, and threatened and endangered species habitat identification and monitoring.

**Responsibilities** Mr. Shuck will be responsible for drafting the preconstruction notification to the USACE for the CWA Section 404 permit, if deemed necessary through the NEPA and project design process.

## MATT MCMILLAN

### ESA LEAD/BIOLOGIST

Mr. McMillan is a biologist and herpetologist in SWCA's Albuquerque office. He specializes in natural resources studies throughout the Southwest, including threatened and endangered species surveys and habitat assessments, wetland delineations and permitting, vegetation sampling, habitat restoration, and ecological monitoring. He has 20 years of experience with private, federal, state, and local clients and has worked both in an academic setting and with private research organizations and resource management companies. He has worked on threatened and endangered species issues in riparian systems on the Rio Grande, Canadian, Gila, and Pecos Rivers in New Mexico for the NMISC, New Mexico Department of Transportation, the USACE, and Reclamation. Mr. McMillan has worked with clients to identify, develop, and monitor habitat restoration sites and provided environmental compliance surveys of habitat restoration sites prior to, during, and postconstruction. He has worked in the Chihuahuan, Sonoran, and Mojave Deserts on the systematics, biogeography, and conservation biology of reptiles—specifically, population monitoring of desert tortoise and Gila monster. Mr. McMillan has worked under USFWS 10(a)1(A) permits to handle, bleed, and rehydrate desert tortoise in Arizona, California, Nevada, and Utah. He is currently permitted to handle federally endangered fishes, including the Rio Grande silvery minnow, loach minnow, and spikedace. He is also permitted to handle threatened and endangered amphibians and reptiles, including the Chiricahua leopard frog, Jemez Mountains salamander, dunes sagebrush lizard, narrow-headed gartersnake and Mexican gartersnake.

**Responsibilities** Mr. McMillan will be responsible for leading the biological field survey and writing the biological report for the Project. He will also draft the ESA Section 7 consultation letter on behalf of FEMA for USFWS review, if requested.

## TERESA HURT

### CULTURAL RESOURCES PRINCIPAL INVESTIGATOR

Ms. Hurt is an archaeologist, historian, and environmental compliance specialist with more than 23 years of professional experience. As an archaeological principal investigator, she has managed cultural resources inventory and mitigation projects throughout New Mexico. She is also a listed historian in the New Mexico SHPO's Directory of Qualified Supervisory Personnel and has extensive experience conducting historic building inventories, archival and oral-historical research, and completing NRHP nominations and Historic American



Buildings Survey/Historic American Engineering Record (HABS/HAER) documentation. She has authored well over 100 cultural resources management reports, peer-reviewed books, and journal publications. Ms. Hurt has managed many complex, multidisciplinary environmental projects involving coordination of large teams and consultation with multiple state and federal agencies. She has served as the PM and main point of contact for a variety of statewide on-call environmental and cultural resource services contracts for state agencies in New Mexico, including both the New Mexico State Parks Division and the Abandoned Mine Land Program of the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD). Ms. Hurt manage SWCA's current on-call contract with EMNRD for as-needed natural and cultural resource compliance services at state parks throughout New Mexico, and prior to joining SWCA in June 2019, she managed two other consecutive on-call contracts (awarded in 2014 and 2018) for on-call cultural and natural resources services for New Mexico State Parks. As a result, she has lead teams that have conducted a diversity of resource investigations on state park lands, including cultural resources surveys at numerous parks throughout the state, a HABS documentation project at Navajo Lake State Park, and a multiphase project to complete a NRHP historic district nomination for the ski lodge and associated facilities at Hyde Memorial State Park. She has experience recording cultural resources for City projects, including a recent HABS documentation of the 1920 flue shop building at the Albuquerque Railyards, which is part of the Atchison, Topeka & Santa Fe Railway Locomotive Shops historic district. Her experience with cultural resources specific to the Rio Grande Valley State Park includes conducting surveys directly adjacent to the park and documenting historic linear cultural resources that extend into the park, such as the Atrisco Riverside Drain, which parallels the Rio Grande and flanks the western side of the proposed project area.

**Responsibilities** Ms. Hurt will be responsible for leading the cultural resources investigation and leading the development of the cultural resources report for SHPO review and concurrence.

## WORKING WITH THE CITY OF ALBUQUERQUE

SWCA has worked with the City on over two dozen projects in varying capacities since 2005 and previously held an environmental on-call contract with the City's Parks & Recreation Department, which expired in 2019. Our history of working successfully with the City means that we understand how to support a variety of projects and will deliver the EA successfully by building upon the productive and trusting relationships established. We thoroughly understand the EA development process, can hit the ground running, and are able to use team members best suited to specific tasks who have worked on previous EAs and fire-related projects.

## RESOURCES TO COMPLETE THE PROJECT

SWCA's Albuquerque office occupies an 11,000-square-foot, secure facility immediately accessible to I-25 and I-40. The facility includes office space, conference rooms, wet and dry laboratories, equipment storage areas, and a fully equipped GIS laboratory with state-of-the-art Esri software and a plotting center. The office is equipped with a variety of biological and archaeological project needs, such as shovels, screens, tripods, wheelbarrows, hand augers and soil probes, water containers, cameras, Munsell soil charts, and other pieces of equipment and supplies. We have a fleet of field vehicles and can rent additional vehicles quickly as needed.

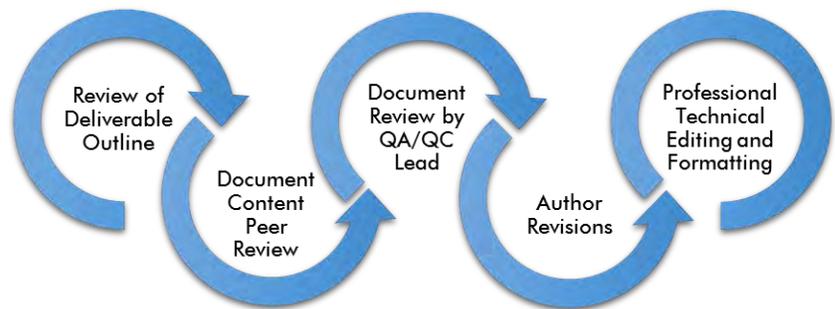
## SOFTWARE AND HARDWARE CAPABILITIES

SWCA's Albuquerque office maintains more than 100 computers, multiple printers/copiers/scanners networked to a server, and an officewide broadband Internet connection. Project data and reports are stored on a networked server, which is backed up each weeknight. Completed reports and graphics are saved in Adobe PDF format with a CD writer for ease of viewing on any computer. Hardware available for printing, scanning, and/or copying includes multifunction color and black and white laser printer/scanners, large-scale inkjet color plotters, high-speed black and white inkjet printers, a high-quality digital photograph printer, and a flatbed scanner. Our Albuquerque office owns 12 handheld survey-grade Trimble GPS units with submeter or sub-foot post-correction accuracy. These units run the ArcPad platform for seamless integration with our office-based GIS infrastructure. SWCA uses ArcGIS 10.1. Standardized data dictionaries are implemented for the recording of biological and cultural features, ensuring consistent nomenclature and replicability across projects. Cultural site recording is completed using Panasonic ToughPad JT-B1 tablets, which aids in maintaining QA/QC over field data and allowing for faster report production.

## QUALITY CONTROL

SWCA has an established comprehensive QA/QC program that was carefully designed to establish across-the board standards for excellence in all work products. The primary focus of QA/QC is on continuous, consistent quality throughout all stages of a project rather than the simple "end of the line" QA/QC of final deliverables. We have found that adhering to this established QA/QC process results in several unique benefits, including

- more effective communication between all project team members;
- greater accuracy and readability of all technical and nontechnical deliverables;



- more legally defensible documents; and,
- a significant reduction in or elimination of the need for redoing work, which in turn helps maintain project schedules and budgets.

The QA/QC process is continuous; however, the frequency of compliance checks will be tailored to the size and complexity of the project task. As a baseline, 5% of project time will be devoted to QC. SWCA has a document production procedure in place that ensures every report will be reviewed by a professional SWCA technical editor in addition to a senior-level content reviewer. SWCA's Subject Matter Expert Dr. Stropki will review project invoices prior to submittal.

### **ACCOUNTING AND COST CONTROL**

All project fiscal records will be open to the City inspection at any time. Reports detailing project payroll and other direct expenses are available for PMs to review at any time, in real-time. SWCA uses Deltek Vision, a software application designed to support the complete project lifecycle, which provides rapid financial feedback on daily expenditures. Emerging cost overruns can be identified quickly and avoided.

SWCA

APPENDIX A:  
Resumes

## YEARS OF EXPERIENCE

20

## EXPERTISE

Watershed management, soils, and hydrology

Wildland fire resources/fire ecology

Fire effects monitoring

Natural resource monitoring and management

Riparian and riverine restoration

## EDUCATION

Ph.D., Watershed Hydrology and Hydrology, m: Soil, Water, and Environmental Science; University of Arizona, Tucson, Arizona; 2011

Master of Water Resources; University of New Mexico, New Mexico; 2003

B.S., Environmental Science; Marietta College; Marietta, Ohio; 2001

## REGISTRATIONS / CERTIFICATIONS

Association for Fire Ecology; 2012

## TRAINING

Project Management Training, SWCA Environmental Consultants; 2010

Professional Development Unit Credits, Las Cruces Transportation and Engineering Conference; 2013

Wildland Firefighter Red Card Certification, Valencia County; 2015

## MEMBERSHIPS

Member, American Water Resources Association

Member, Arizona Nevada Academy of Science

Member, Association for Fire Ecology

## CODY STROPKI, PH.D., PROJECT MANAGER

Dr. Stropki is a certified fire ecologist and watershed science expert. He has considerable knowledge of wildland fire science, including 20 years of professional and academic experience. His work in fire ecology has been focused on wildfire risk management, post-fire restoration, and post-fire ecosystem monitoring. While at SWCA Dr. Stropki has managed numerous projects throughout New Mexico, primarily focused on wildfire risk management, ecological and hydrologic restoration, and ecosystem monitoring. These projects include the Los Alamos County Wildfire Mitigation and Public Education Project; CPSWCD Fuel Reduction Project EA; Ute Park Fire Burned Area Emergency Response Team Project; U.S. IBWC habitat restoration projects; the Abo Arroyo River Ecosystem Restoration Initiative; and the Otero, Sandoval, Valencia, and Chaves County CWPPs. He has overseen several tasks, including EA development for previous FEMA projects, coordinating and supervising field crews, obtaining the necessary CWA Section 401 and Section 404 permits, and designing and implementing restoration plans in bosque habitat. Dr. Stropki has authored or coauthored more than 20 technical and peer-reviewed publications ranging in topics from wildfire effects on natural resources to conservation and restoration plans for local soil and water conservation districts. He also brings the experience of working with clients in assisting with the submittal of the required information to the NMDHSEM for both Phases I and II of the sub-grant agreements that allow for development and implementation of fuel reduction projects.

## SELECTED PROJECT EXPERIENCE (\* denotes project experience prior to SWCA)

**Ute Park Fire Burned Area Emergency Rehabilitation (BAER) Team; New Mexico Department of Homeland Security and Emergency Management (NMDHSEM); Ute Park, Colfax County, New Mexico.** SWCA was contracted by the NMDHSEM to complete a damage assessment and BAER plan following the 2018 Ute Park Fire; the fire damaged and disrupted watershed function on 36,740 acres of private forested land near Cimarron New Mexico, and threatened municipal water supplies for several communities downstream. SWCA engineers recommended a host of structural measures to mitigate potential post-fire flooding impacts to municipal and agricultural water quality and infrastructure. SWCA biologists and watershed specialists recommended soil stabilization measures and actions to mitigate soil erosion and debris flow and establish native vegetation cover. *Role: Project Manager.*

**Ojo Peak Post-Fire Collaborative Forest Restoration Program; Claunch-Pinto Soil and Water Conservation District (CPSWCD); Torrance County, New Mexico.** SWCA was retained to assist with post-fire restoration following the Ojo Peak Wildfire, which burned approximately 7,000 acres, including the upper watershed of Ox Canyon, which contains perennial pools and springs. This restoration was aimed at channel stabilization and revegetation. More than 20 structures were constructed that assisted with the mitigating upland channel erosion during this project. *Role: Project Manager.*  
*Responsible for obtaining the necessary CWA Section 404/401 permitting, structure*

*design, installation, and subsequent monitoring.*

**Estancia Basin Watershed Monitoring; CPSWCD; Torrance County, New Mexico.** For this 5-year contract, SWCA monitored forest and watershed health in relation to forest thinning on the eastern slopes of the Manzano Mountains to evaluate the effectiveness of thinning treatments. *Role: Project Manager. Responsible for managing budget and coordinating staff and field efforts. Contributed to data*

collection and analysis, assisted in development of resource monitoring plans, completed annual reports (including data analysis), and contributed to writing of peer-reviewed publications on study results.

**Abo Arroyo River Ecosystem Restoration Initiative; CPSWDC; Torrance County, New Mexico.** SWCA completed a riparian restoration project aimed to restore ecosystem system function through the watershed. *Role: Environmental Specialist. Worked on documents to obtain a CWA Section 404 permit. Designed and installed erosion control structures and devised a replanting plan for both the riparian and upland areas. Managed the hydrologic and soil datasets and was in charge of all reporting.*

**Otero County CWPP; Otero County; Alamogordo, Otero County, New Mexico.** SWCA worked with a large multi-agency working group to develop a CWPP that would address catastrophic fire risk in a diverse wildland-urban interface (WUI). SWCA developed an intricate wildfire risk and hazard assessment that apportioned risk across the varied landscape. The risk assessment required refining of an existing fuel classification layer to incorporate recent and planned fuel treatment projects on local and landscape scales. The CWPP involved collaborative planning that incorporated a large range of stakeholders representing local, county, state, and federal agencies. The CWPP was approved and supported by all stakeholders and is being used to implement recommended fuel reduction projects in a number of high-risk watersheds. *Role: Environmental Specialist. Oversaw public education and outreach activities, facilitated stakeholder meetings, and developed risk assessments and recommendations.*

**Sandoval County CWPP; Sandoval County; Bernalillo, Sandoval County, New Mexico.** SWCA employed collaborative development and strong public involvement techniques to prepare this comprehensive CWPP, which Sandoval County could use to effectively seek funding for implementation. *Role: Environmental Specialist. Oversaw public education and outreach activities, facilitated stakeholder meetings, and developed risk assessments and recommendations.*

**Valencia County CWPP Update; County of Valencia; Los Lunas, Valencia County, New Mexico.** SWCA completed the original Valencia County CWPP in 2012 and was contracted to complete the 5-year update in 2017. The Valencia County CWPP addresses wildfire risk and hazard to communities located in the WUI, which includes several high-risk communities located close to the Rio Grande River corridor. The original CWPP and update include extensive fire behavior modeling to guide the development of risk reduction recommendations related to fire response, fuel reduction, public education and outreach, and structural ignitability. *Role: Project Manager.*

**Chaves County CWPP; Chaves County; Chaves County, New Mexico.** SWCA's development of this plan included extensive community involvement, close work with the county fire prevention officer, and the integration of existing geographic information system datasets to deliver recommendations for realistic measures to reduce the ignitability of structures throughout the area. *Role: Environmental Specialist. Oversaw public education and outreach activities, facilitated stakeholder meetings, and developed risk assessments and recommendations.*

**Mobile Wildland Fire Workshop Development; CPSWDC; Mountainair, Torrance County, New Mexico.** SWCA worked with the CPSWDC in the development of an educational display to be used for wildfire preparedness and prevention education throughout New Mexico. The display built on information contained in the Claunch-Pinto and Torrance County CWPPs that SWCA originally developed in 2007 and updated in 2016. The display included a series of graphics and informational text describing fire ecology concepts, fire response and operations, post-fire hazards and threats, and fire prevention actions. The display has been used to educate communities across the state. *Role: Project Manager.*

**Salinas Pueblo Mission (SAPU) Fire Management Plan (FMP) Environmental Assessment (EA); National Park Service (NPS); Torrance County, New Mexico.** SWCA was awarded an NPS Blanket Purchase Agreement (BPA) contract to provide NEPA support and fire management expertise in the update of NPS FMPs. SWCA completed 10 task orders under this BPA. Tasks included FMP/EA development and revisions, ceramic analysis, National Register of Historic Places nominations, and a water rights inventory. Notable projects included the Appalachian National Scenic Trail FMP revision covering 14 states from Georgia to Maine; the Cumberland Gap National Historical Park FMP and EA; Kentucky, Tennessee, and Virginia; and the Utah Parks FMP and EA in multiple national parks throughout Utah. *Role: Environmental Specialist.*

## YEARS OF EXPERIENCE

16

## EXPERTISE

NEPA for public land management, transportation, community infrastructure, and energy sectors

Management of environmental compliance documents

Resource management planning with the BLM and NPS

Comment analysis and protest response

## EDUCATION

M.S., Environmental Sciences; Indiana University - SPEA; Bloomington, Indiana; 2006

M.P.A., Public Affairs; Indiana University - SPEA; Bloomington, Indiana; 2005

B.S., Environmental Sciences; Oklahoma State University; Stillwater, Oklahoma; 2002

## AWARDS / HONORS

Certified Planner No. 026727, American Institute of Certified Planners; 2014

FHWA Recognition for Outstanding Work; 2013

## COLEMAN TRACY BURNETT, M.S., A.I.C.P., DEPUTY PROJECT MANAGER/SENIOR NEPA AND FEDERAL GRANT LEAD

Ms. Burnett is a senior project manager (PM) and environmental planner with experience in NEPA, environmental compliance for land use planning on public lands, proposed infrastructure projects, public meeting facilitation, and natural resources management. She has managed many forest restoration, emergency management, and fire management planning NEPA documents for FEMA, the National Park Service (NPS), and the U.S. Forest Service (USFS). Ms. Burnett has experience managing the environmental compliance process for numerous projects, including CWA permitting, consultation with the USFWS, consultation with SHPO, and NEPA documentation. She has developed NEPA documents for a range of agencies, such as the Bureau of Land Management (BLM), USFS, NPS, FEMA, Bureau of Indian Affairs (BIA), Rural Utilities Service, Federal Highway Administration, and Department of Housing and Urban Development. She also has experience compiling and submitting federal grant applications through her previous employment as a nonprofit development coordinator, where she was responsible for writing and reporting on successful grants provided by federal agencies.

## SELECTED PROJECT EXPERIENCE

**Greater Santa Fe Mountains Landscape Resiliency Project; USFS; Santa Fe County, New Mexico.** SWCA is serving as a third-party NEPA consultant for the EA. The proposed action would allow implementation of a 50,000-acre forest resiliency project in the Santa Fe Mountains. SWCA is responsible for writing the EA, addressing agency and public comments, and drafting the NEPA decision document. *Role: Senior NEPA Advisor. Responsible for writing sections of the EA and advising on appropriate analysis to comply with NEPA.*

**South Sacramento Restoration Project (SSRP); New Mexico Department of Game and Fish and USFS; Otero, New Mexico.** SWCA is serving as a third-party NEPA consultant for

the SSRP EIS. The proposed action would allow implementation of a landscape-scale, 20-year forest restoration project in the Sacramento Mountains. SWCA is currently facilitating meetings with agencies and the public, coordinating the SWCA project team, and writing the EIS. *Role: NEPA Coordinator and Public Involvement Lead. Primary author of EIS and meeting facilitator for several agency and public meetings.*

**Salinas Pueblo Missions Fire Management Plan (FMP) and EA; NPS; Torrance County, New Mexico.** SWCA was selected by the NPS to revise the FMP for the park as well as complete an EA for the proposed project. The proposed action would allow the use of prescribed fire and vegetation thinning to reduce the threat of wildfire. Resource issues facing the park include historic properties, threatened and endangered species, air quality, and visitor use and experience. *Role: NEPA Specialist. Contributing author to the EA and fire management planning process.*

**Louisiana Trustee Implementation Group Restoration Plan (RP) and EA for Nutrient Reduction (Non-Point Source) and Recreational Use; Coastal Protection and Restoration Authority; Multiple Counties, Louisiana.** SWCA completed a restoration plan and environmental assessment covered 31 alternatives for nutrient reduction and recreational use projects to address injuries to the State of Louisiana from the Deepwater Horizon Oil Spill in 2010. SWCA also wrote 23 monitoring and adaptive management plans as well as 23 biological evaluations (BEs) for the preferred alternatives. The RP/EA, monitoring and adaptive management plans, and BEs were reviewed and approved by the Louisiana Trustee Implementation Group consisting of five state agencies and four federal agencies. *Role: Project Manager and NEPA Specialist. Managed all aspects of the project and wrote portions of the RP/EA.*

**Olympic National Park FMP and EA; NPS; Multiple Counties in Washington.** SWCA revised the FMP for the park and completed an EA for the proposed project. The proposed action would allow the use of prescribed fire and unplanned ignitions to meet multiple objectives. Resource

issues facing the park include wilderness, threatened and endangered species, air quality, historic properties, and visitor use and experience. *Role: Project Manager and NEPA Specialist. Managed all aspects of the EA and fire management planning process.*

**Cardinal-Hickory Creek 345-kV Transmission Line EIS Project; RUS; Multiple Counties, Iowa and Wisconsin.** SWCA served as the third-party NEPA contractor for the RUS EIS and FAST-41 project. The proposed high-voltage transmission line would span over 100 miles in Iowa and Wisconsin. SWCA was responsible for assisting RUS and its cooperating agencies with all aspects of NEPA compliance and supporting RUS with aspects of tribal consultation, compliance with National Historic Preservation Act Section 106, and Endangered Species Act Section 7 interagency consultation. Both the USFWS and the USACE were cooperating agencies for the project. The project would cross the Upper Mississippi River National Fish and Wildlife Refuge, which triggered additional site-specific analysis required for USFWS and USACE permit reviews. The record of decision was issued in January 2020. *Role: Project Manager. Responsible for all project management aspects, public meeting facilitator, and primary EIS author.*

**New Mexico Lease Sale EAs; BLM; Multiple Counties, New Mexico.** Since 2018, SWCA has been supporting the BLM New Mexico State Office with a variety of tasks related to its quarterly oil and gas lease sale process, including development of an air analysis template in collaboration with the BLM to address recent litigation and to incorporate best information contained in the most recent BLM air quality technical report and creation of the water support document to support individual lease sales for the Farmington, Rio Puerco, and Roswell/Carlsbad Field Offices, incorporating FracFocus information on water use associated with hydraulic fracturing and considering water use associated with each field office's reasonably foreseeable development scenarios. SWCA is also preparing quarterly lease sale EAs, addressing public comments, and responding to protests. SWCA is maintaining the administrative record for each sale and has developed a process to identify records that should be in the multiple administrative records, thus simplifying the record-keeping process. The contract also includes options for years 2022 and 2023. *Role: NEPA Advisor and protest response support.*

**Northern Corridor EIS; BLM and Utah Department of Transportation; Washington County, Utah.** SWCA assisted the Utah Department of Transportation and the BLM St. George Field Office, Color Country District with the development of an EIS analyzing the impacts of BLM issuing a right-of-way (ROW) grant for a new highway across the BLM-administered Red Cliffs National Conservation Area and the USFWS approving Washington County's proposed habitat conservation plan (HCP) amendment. The approval of the ROW and HCP require the amendment of two BLM land use plans. SWCA is leading the development of the BLM EIS and facilitating alternatives development for the land use plan amendments, including preparing all associated GIS data. *Role: NEPA Specialist and Quality Assurance/Quality Control for public comment responses and the final EIS.*

**Devils Postpile National Monument FMP and EA; NPS; Madera County, California.** SWCA revised and updated the FMP for the park as well as completed an EA for the proposed project. The proposed action would allow the park to implement prescribed burns to manage resources within the park unit. *Role: Project Manager and NEPA Specialist. Managed all aspects of the EA and fire management planning process.*

**Chickamauga and Chattanooga National Military Park FMP and EA; NPS; Hamilton County, Tennessee and Walker and Catoosa Counties, Georgia.** SWCA was selected by the NPS to revise and update the FMP for the park as well as to complete an EA for the proposed project. The proposed action would allow the park to implement prescribed burns to maintain the cultural landscape. *Role: Project Manager and NEPA Specialist. Managed all aspects of the EA and fire management planning process.*

**Pope County Community Wildfire Protection Plan (CWPP); Southeastern Illinois Regional Planning and Development Commission; Pope County, Illinois.** SWCA facilitated the development of a county-wide CWPP for Pope County, Illinois. SWCA's services included facilitating several meetings with the project core team, compilation of local wildfire-related data, fire modeling and mapping services, public outreach activities, and writing the plan. *Role: Public Involvement Specialist.*



## YEARS OF EXPERIENCE

16

## EXPERTISE

Natural resource management

CWPPs

Forest ecology and management

Ecological restoration

Fire management planning

Fire effects monitoring

Community outreach and youth training

## EDUCATION

M.S., Forestry, e: Fire Ecology/Habitat Management; Colorado State University; Fort Collins, Colorado; 2006

M.S., Resource Management; University of Edinburgh, Scotland; 2003

B.S. with honors, Geography; University of Exeter, England; 2000

## MEMBERSHIPS

Member, National Emergency Management Association

Member, Association for Fire Ecology

Member, International Association of Wildland Fire

Member, Society of American Foresters

Member, The Wildlife Society

## VICTORIA AMATO, M.S., SENIOR FIRE PLANNER

Ms. Amato is a fire planning specialist, with a diverse academic background in fire planning, forestry, fire ecology, and resource management. While at SWCA, she has developed over 40 CWPPs and FMPs, serving as PM or technical lead. Ms. Amato's experience ranges from frequent fire regime communities in New Mexico and Colorado, to pine barrens surrounded by suburban communities in Long Island, New York, to the spruce forests and tundra of Alaska. She routinely works with a variety of land management agencies across the United States, including local governments, state agencies, and the USFS, BLM, Reclamation, BIA, and NPS studying fuel reduction treatments, forest stand structure, fire behavior, remote sensing classification, and monitoring of burned areas. She has completed classes and coursework in forest and vegetation management, silviculture, forest ecology, ecological restoration, fire ecology, fire behavior, and fire management and is familiar with fire modeling using the IFTDSS, FlamMap, FIREMON, FARSITE, BehavePlus, and First Order Fire Effects Model. Ms. Amato has completed a national Firewise training workshop that further developed her knowledge of structural ignitability, fire behavior, and the WUI.

## SELECTED PROJECT EXPERIENCE

**Santa Fe County CWPP (and Update); Santa Fe County; Santa Fe County, New Mexico.** SWCA worked with Santa Fe County and the City of Santa Fe to develop a countywide CWPP that incorporated risk and hazard assessments of wildland-urban interface (WUI) areas. SWCA worked in close cooperation with the USFS to identify fuel treatments to complement existing and planned fuel reduction efforts in the Santa Fe watershed. *Role: Project Manager. Planner and fire specialist working on CWPP for the county.*

**Valencia County CWPP Update; County of Valencia; Los Lunas, Valencia County, New Mexico.** SWCA completed the original Valencia County CWPP in 2012 and was contracted to complete the 5-year update in 2017. The Valencia County CWPP addresses wildfire risk and hazard to communities located in the WUI, which includes several high-risk communities located close to the Rio Grande River corridor. The

original CWPP and update include extensive fire behavior modeling to guide the development of risk reduction recommendations related to fire response, fuel reduction, public education and outreach, and structural ignitability. *Role: Project Manager. Fire planning lead and meeting facilitator.*

**Middle Rio Grande Bosque CWPP; Middle Rio Grande Conservancy District; Bernalillo County, New Mexico.** As this CWPP spanned four counties within the Middle Rio Grande Conservancy District, SWCA's recommendations were based on our performance of a comprehensive risk assessment that incorporated numerous data layers collected from municipal, tribal, county, state, and federal agencies. The project was completed within budget and on schedule. *Role: Planning Specialist. Planning lead and fire specialist for a riparian fire planning document in an urban setting.*

**Sandoval County CWPP; Sandoval County; Sandoval County, New Mexico.** In 2008, SWCA prepared a comprehensive CWPP to assist Sandoval County in reducing the risk of catastrophic wildfire to communities, including the city of Rio Rancho and five other municipalities. In 2012, SWCA was retained to assist Sandoval County with an update to the 2008 plan to incorporate changes to the community and landscape resulting from recent fire occurrence and a suite of treatments that had been implemented following the original CWPP. SWCA reconvened a core team of stakeholders to collaboratively update the CWPP. *Role: Planning Specialist. Planner and fire specialist working on the CWPP for the county.*

**Chaves County CWPP; Chaves County; Chaves County, New Mexico.** SWCA's development of this plan included extensive community involvement, close work with the county fire prevention officer, and the integration of existing geographic information system datasets to deliver recommendations for realistic measures to reduce the ignitability of structures throughout the area. *Role: Project Manager/Scientist. Managed the development of a CWPP for the county.*

**Claunch-Pinto and Torrance County CWPP Updates; Claunch-Pinto Soil and Water Conservation District (CPSWCD); Mountainair, Torrance County, New Mexico.** SWCA was contracted to work with a large multi-agency working group to update two CWPPs that SWCA helped develop in 2008. These updates addressed catastrophic fire risk in a diverse WUI and what work has been completed since 2008 to lower this risk. SWCA developed an intricate wildfire risk and hazard assessment that apportioned risk across the varied landscape. This risk assessment required refining the existing fuel classification layers to incorporate recent and planned fuel treatment projects on local and landscape scales. The updates of these CWPPs involved collaborative planning that incorporated a large range of stakeholders representing local, county, state, and federal agencies. *Role: Fire Planning Lead while updating the original CWPPs.*

**Firewise Community Liaison; New Mexico Energy, Minerals, and Natural Resources Department; Multiple Counties, New Mexico.** SWCA acted as a Firewise community liaison to coordinate a grassroots outreach project to promote fire prevention and defensible space actions to protect homes and neighborhoods against wildland fire in New Mexico. *Role: Environmental Specialist. Community outreach and report writing for a New Mexico State Forestry Division (NMSFD) Firewise promotional program.*

**Ojo Peak Post-Fire Collaborative Forest Restoration Program; CPSWCD; Torrance County, New Mexico.** SWCA was retained to assist with the post-fire restoration following the Ojo Peak Wildfire, which burned approximately 7,000 acres, including the upper watershed of Ox Canyon, which contains perennial pools and springs. This restoration was aimed at channel stabilization and revegetation. More than 20 structures were constructed that assisted with mitigating upland channel erosion during the project. *Role: Environmental Specialist. Developed a monitoring protocol for post-burn monitoring of a wildfire in the Manzano Mountains. Implemented two seasons of vegetation and soils monitoring, training, and utilizing a local youth crew.*

**Otero County CWPP; Otero County; Alamogordo, Otero County, New Mexico.** SWCA worked with a large multi-agency working group to develop a CWPP that would address catastrophic fire risk in a diverse WUI. SWCA developed an intricate wildfire risk and hazard assessment that apportioned risk across the varied landscape. The risk assessment required refining an existing fuel classification layer to incorporate recent and planned fuel treatment projects on local and landscape scales. The CWPP involved collaborative planning that incorporated a large range of stakeholders representing local, county, state, and federal agencies. The CWPP was approved and supported by all stakeholders and is being used to implement recommended fuel reduction projects in a number of high-risk watersheds. *Role: Project Manager. Report author for the development of a CWPP for the county.*

**Quay County CWPP; Quay County; Quay County, New Mexico.** SWCA worked with Quay County to develop a CWPP that addressed the specific needs and concerns of the county. The plan involved a high level of public participation as well as collaborative planning involving various county, state, and federal agencies. Collaborative planning was essential for successfully implementing recommendations, as most of the land in the county is privately owned. The risk assessment was specific to agricultural lands and grasslands but also considered all features of the landscape. *Role: Planning Specialist. Planner and fire specialist working on CWPP for the county.*

**Roosevelt County CWPP; Roosevelt County; Roosevelt County, New Mexico.** SWCA's development of the Roosevelt County CWPP was a collaborative and highly successful planning project between Roosevelt County, County Emergency Management, county fire departments, the Town of Elida, the U.S. Department of Defense, the Natural Resources Conservation Service, the NMFSD, the State Land Office, and the U.S. Fish and Wildlife Service. *Role: Planning Specialist. Planner and fire specialist working on the CWPP for the county.*

**Assessment (EA); NPS; Salinas Pueblo Missions; Torrance County, New Mexico.** SWCA was awarded an NPS Blanket Purchase Agreement (BPA) contract to provide National Environmental Policy Act (NEPA) support and fire management expertise in the update of NPS FMPs. SWCA completed 10 task orders under this BPA. Notable projects included the Appalachian National Scenic Trail FMP revision covering 14 states from Georgia to Maine; the Cumberland Gap National Historical Park FMP and EA; Kentucky, Tennessee, and Virginia; and the Utah Parks FMP and EA in multiple national parks throughout Utah. *Role: Project Manager. Worked as contract manager and project manager to develop an EA in support of an FMP for Salinas Pueblo Missions National Monument.*

## YEARS OF EXPERIENCE

6

## EXPERTISE

Project management

Issues-based NEPA analysis strategy development

ESA Section 7 compliance

Landscape-level resource planning

Terrestrial and aquatic threatened and endangered species surveys

Wildfire risk analysis

## EDUCATION

B.S., Environmental Biology; Fort Lewis College, Durango, Colorado; 2014

## PERMITS

USFWS, Desert Tortoise Monitor (2015)

New Mexico Department of Game &amp; Fish Take Permit (3143), Permittee

## TRAINING

Streamlined NEPA Process and Analysis Workshop - Matt Petersen, SWCA Environmental Consultants; 2018

PSMJ Project Management Training, 2020

## JENNIFER CLAYTON, B.S., NEPA LEAD

Ms. Clayton is an environmental scientist and NEPA planner. She is professionally trained in project management, NEPA compliance and permitting, and resource management planning and has a strong background in ESA compliance. She has extensive experience conducting biological surveys, including for terrestrial and aquatic threatened and endangered species and associated critical habitat, forest inventory, and wildfire risk assessments. She has 6 years of experience working with private, federal, state, tribal, and local clients on a range of projects, including energy development (transmission, solar, wind, oil and gas), forest restoration, and agency land use plans (resource management plans and fire mitigation plans).

## SELECTED PROJECT EXPERIENCE

**Bureau of Land Management (BLM) Lease Sale NEPA Support Contract; BLM New Mexico State Office; Multiple Counties in New Mexico, Oklahoma, and Texas.** SWCA has served as the BLM's contractor since 2018 to develop consistent issues-based lease sale environmental assessments (EAs) across field offices in New Mexico and Oklahoma. Early in the project, the effort involved research on court decisions, leasing process and legal requirements, and a careful review of previous lease sale NEPA analyses to identify gaps or vulnerabilities in the analysis. Key deliverables included development of a water use technical document to support EA analysis and air quality and greenhouse gas analysis templates responsive to recent litigation. The initial template development contract was then followed by a full NEPA support contract where SWCA has become the primary author of the quarterly EAs and supports the public comment analysis/resolution, protest resolution, and administrative records. *Role: Assistant Project Manager and Technical Team Lead. Lead Author for Farmington and Rio Puerco Field Office. Provides oversight to all phases of the NEPA process, including the development of all EAs, public comment response, protest response, and the administrative record.*

**BLM Carlsbad Field Office Resource Management Plan (RMP)/Environmental Impact Statement (EIS) Update; BLM; Carlsbad, Eddy County, New Mexico.** SWCA assisted the BLM Carlsbad Field Office with the update of its RMP, producing a Class I cultural resources survey report, conducting visual resource and travel inventories, and compiling the

socioeconomic baseline report. SWCA also facilitated public meetings and alternative development workshops to address issues and prepared the draft EIS. *Role: NEPA Specialist. Performed public comment analysis and response, drafted EIS biological resources sections and management stipulations, wildlife subject matter expert, lead author of biological assessment, and performed wildlife habitat fragmentation analysis.*

**Federal Emergency Management Agency (FEMA) EA; Claunch-Pinto Soil and Water Conservation District (CPSWCD); Torrance County, New Mexico.** Funded through FEMA's Hazard Mitigation Grant Program, SWCA assisted the CPSWCD in completing environmental compliance on 120 acres of private land interspersed with residential areas in Torrance County, New Mexico. The project consists of thinning vegetation to improve the defensible space within wildland-urban interface areas. SWCA coordinated all environmental compliance steps, including the project kick-off meeting, public involvement, and field surveys; and developing the cultural resources survey report and the EA. *Role: NEPA Lead, Assistant Project Manager, Forestry and Wildlife Subject Matter Expert.*

YEARS OF EXPERIENCE

11

EXPERTISE

NEPA compliance

Land restoration and reclamation on ranchland, watersheds, and aggregate facilities

Reclamation and mitigation plan development and implementation

SWPPP development for aggregate, concrete, and asphalt facilities

California red-legged frog habitat design

EDUCATION

M.N.R., Master of Natural Resources; University of Idaho, Idaho; in progress

Specialized Study Program, Sustainable Groundwater Management; University of California Davis Extension, California; 2016

B.A., Environmental Studies; University of California Santa Cruz, Santa Cruz, California; 2010

PERMITS

New Mexico Department of Game & Fish Take Permit (3143), Subcommittee

ALEX SIMONS, B.A., EA AND SWPPP AUTHOR

Ms. Simons, an experienced natural resources specialist and environmental planner, will serve as an EA author for physical resources and lead the development of the SWPPP. Her expertise in natural resources includes over 11 years of experience in land restoration and reclamation planning, environmental compliance and permitting, and NEPA reporting. She also has over 8 years of experience working with private, federal, state, and local agencies in California and the Four Corners region. Ms. Simons led the CPSWCD Fuel Reduction Project, and her experience with FEMA's EA requirements will benefit the City as she supports this Project in a similar capacity.

SELECTED PROJECT EXPERIENCE (\* denotes project experience prior to SWCA)

**FEMA) Environmental Assessment (EA); Claunch-Pinto Soil and Water Conservation District (CPSWCD); Tarrant County, New Mexico.** Funded through the Federal Emergency Management Agency's (FEMA's) Hazard Mitigation Grant Program (HMGP), SWCA assisted the CPSWCD in completing environmental compliance on 120 acres of private land interspersed with residential areas in Tarrant County, New Mexico. The project consists of thinning vegetation to improve the defensible space within wildland-urban interface areas. SWCA coordinated all environmental compliance steps, including the project kick-off meeting, public involvement, and field surveys; and developing the cultural resources survey report and the EA. *Role: NEPA Lead and Writer.*

**Los Alamos County Fire Department EA; Incorporated County of Los Alamos; Los Alamos, County, New Mexico.** Funded through FEMA's HMGP, SWCA assisted Los Alamos County in completing environmental compliance and planning tasks associated with reducing the threat of catastrophic wildfire and creating defensible space around residential and critical facilities and promoting ecosystem health. In addition to developing the EA, SWCA prepared specialist reports for wildlife, botany, soils and watershed, and fire and fuels, as well as a biological assessment, for sensitive species

for consultation on federally listed species with the U.S. Fish and Wildlife Service. SWCA also performed cultural resources surveys and report development for National Historic Preservation Act (NHPA) Section 106 consultation. The EA and decision notice was published in February 2019. Successful completion of the NEPA process has allowed Los Alamos County to be approved for HMGP funding and begin implementing forest treatment. *Role: Environmental Specialist.*

\* **Stormwater Pollution Prevention Plan Preparation; Graniterock; California.** Ms. Simons completed SWPPP preparation pursuant to the 2015 California Industrial General Permit for 15 aggregate, concrete, and/or asphalt facilities owned by Graniterock throughout central and northern California. *Role: Environmental Project Manager.*

**YEARS OF EXPERIENCE**

12

**EXPERTISE**

- NEPA compliance
- Land use management planning
- Federal agency EA analysis and process
- Environmental/Cultural compliance management
- Fuels management/mitigation
- Forest inventory and analysis
- Wildland fire suppression
- Prescribed fire treatments

**EDUCATION**

B.S., Ecology and Evolutionary Biology; University of Connecticut, Storrs, Connecticut; 2010

**REGISTRATIONS / CERTIFICATIONS**

- Certified USFS Timber Cruiser
- Certified USFS Type I Wildland Firefighter
- Certified USFS Intermediate B Sawyer

**TRAINING**

- NEPA Workshop; SWCA Environmental Consultants; 2019
- Issues-based NEPA analysis; BLM-Farmington Field Office; 2019
- AutoDesk 3DS Max Certificate

**PAUL MAKAREWICZ, B.S., EA AUTHOR**

Mr. Makarewicz is an environmental planner focusing on NEPA compliance. Mr. Makarewicz has extensive and varied experience with wildfire suppression, prescribed fire treatments, timber stand improvement, timber cruising, and fuels management, which he acquired during his professional experience working for the USFS. He has worked in conjunction with private, federal, state, and tribal agencies for 10 years. During his tenure, he has achieved multiple USFS professional certifications. At SWCA Mr. Makarewicz specializes in NEPA compliance and technical report writing for energy infrastructure projects located in southeast New Mexico. Mr. Makarewicz has authored more than 25 EAs on the behalf of the BLM Carlsbad Field Office, which includes addressing impacts to the human and natural environment.

**SELECTED PROJECT EXPERIENCE (\* DENOTES PROJECT EXPERIENCE PRIOR TO SWCA)**

**U.S. Department of Agriculture Rural Utilities Service Reconnect Project; ENMR Plateau Telecommunications; Multiple locations, New Mexico.** SWCA provides natural and cultural resources services for ENMR Plateau Communications for its expansion of fiber optic telecommunications infrastructure located throughout New Mexico. *Role: Environmental Planner. Managed communications and liaised between federal agencies and the client. Developed and implemented a strategic and technical plan within the working group to permit a 755-linear-mile fiber optic telecommunications project.*

**Environmental and Cultural Compliance Coordinator for SWCA’s 4 Corners Region; Multiple locations, New Mexico.** SWCA is expanding its business line to accommodate client construction and compliance needs. *Role: Environmental Planner. Coordinated between federal agency, client, and SWCA field staff for environmental and cultural compliance project within the 4 Corners area to scope and develop project budgets. Successfully managed client relations and field staff for new and expanding oil and gas infrastructure in New Mexico.*

**Nevada Resource Management Plan Visual Resource Amendment; Bureaus of Land Management; Multiple Locations, Nevada.** SWCA was contacted by the Bureau of Land Management (BLM) to standardize, categorize, and develop a new visual resource plan for multiple BLM districts located in Nevada. *Role: Environmental Planner. Implemented new Scenic Quality Rating Units, identified Visual Resource Management (VRM) areas, and restructured existing delineated visual zones for the Nevada BLM. Defined VRM zones through proficient use of ArcGIS, AutoDesk 3DS Max, and other technical programs.*

**Various Natural and Cultural Resources Services; 3 Bear Energy LLC; Eddy and Lea Counties, New Mexico.** SWCA provides natural and cultural resources services for 3 Bear Energy LLC for its continued expansion of oil and gas infrastructure in southeast New Mexico. *Role: Assistant Project Manager. Was a NEPA lead for 3 Bear projects and is regularly a technical writer for EAs, technical memorandums, and biological survey reports. Assists with infrastructure development planning. Coordinates environmental and cultural field staff.*

**\* U.S. Forest Service (USFS), San Juan Interagency Hotshot Crew (IHC); Durango, Colorado.** Integral crew member of the San Juan IHC that provided wildfire suppression, prescribed fire treatments, and emergency services nationally and internationally. *Role: Environmental Planner. Type 1 Senior Wildland Firefighter performing on-the-line wildland fire suppression and prescribed wildfire. Responded to wildfire incidents of varying complexity and severity. Advised and directed other crew members of San Juan IHC in day-to-day operations while on incident, at fire camp, and at base.*

## YEARS OF EXPERIENCE

15

## EXPERTISE

Geographic information systems  
 Data management and systems  
 General and urban wildlife biology  
 Avian wildlife rehabilitation  
 Environmental safety and health  
 Visual Resource Management

## EDUCATION

A.A.S., Geographic Information Technology; Albuquerque Technical Vocational Institute, New Mexico; 2007

A.A.S., Environmental Safety and Health; Albuquerque Technical Vocational Institute, New Mexico; 2005

B.S., Biology; Juniata College, Pennsylvania; 2002

Overseas Studies; University of Newcastle; Newcastle, Australia; 2001

## ANNE RUSSELL, B.S., GIS LEAD

Ms. Russell's experience includes a broad array of spatial applications, from initial project planning to data collection and integration, data management, geospatial analysis, and final map production. Ms. Russell has extensive experience with fire modeling, including climate and weather analysis, custom fire behavior modeling, exposure analysis, WUI modeling, fuel treatment modeling, and risk and hazard analysis. Ms. Russell has been the GIS lead for multiple WPPs at SWCA, including in Illinois (Pope County), California (Santa Clara County), New Mexico (Valencia, Sandoval, Tarrant, Chaves, Santa Fe, and Grant Counties), Pennsylvania (McKean and Elk Counties), and Alaska (Kenai Peninsula Borough) as well as WPPs for multiple transmission co-ops in Utah. She also brings her considerable graphic design experience to bear in producing high-quality, interactive ArcGIS story maps and hubs for fire planning projects. Her technical expertise includes proficiency with Esri ArcGIS ArcInfo Workstation and Desktop, ArcGIS Pro, ArcGIS Online web and mobile applications (including Collector, Survey123, dashboards, web apps, and story boards), ArcGIS Enterprise and Portal, Spatial Analyst and 3-D Analyst extensions, Microsoft Office applications, IFTDSS, FlamMap, FARSITE, FireFamilyPlus, and other fire modeling software.

## SELECTED PROJECT EXPERIENCE

**Community Wildfire Protection Plan (CWPP) Update, Santa Fe County, Santa Fe County, New Mexico.** SWCA worked with Santa Fe County and the City of Santa Fe to develop a CWPP that incorporated risk and hazard assessments of WUI areas. SWCA worked in close cooperation with the U.S. Forest Service to identify fuel treatments to complement existing and planned fuel reduction efforts in the Santa Fe watershed SWCA

was retained to complete a 5-year update to the original plan and develop a story map for public information and involvement. *Role: GIS Specialist/Lead. Developed fire behavior outputs and a fire risk assessment model, prepared maps for the report, and designed and created a public-facing story map.*

**Grant County Community WPP Update; Grant County, New Mexico; Grant County.** SWCA updated Grant County's CWPP from 2015. This update included a new approach to risk assessment modeling using the Interagency Fuel Treatment Decision Support System (IFTDSS) to build landscapes and create fire behavior outputs. *Role: GIS Lead. Developed fire behavior outputs and the fire risk assessment model and prepared maps for the report.*

**Chaves County CWPP; Chaves County; Chaves County, New Mexico.** SWCA's development of this plan included extensive community involvement, close work with the county fire prevention officer, and the integration of existing GIS datasets to deliver recommendations for realistic measures to reduce the ignitability of structures throughout the area. *Role: GIS/CADD Technician. Created and edited maps for the report.*

**Claunch-Pinto and Tarrant County CWPP Updates; Claunch-Pinto Soil and Water Conservation District (CPSWCD); Mountainair, Tarrant County, New Mexico.** SWCA has been contracted to work with a large multi-agency working group to update two CWPP's that SWCA helped develop in 2008. These updates would address catastrophic fire risk in a diverse WUI and what work has been completed since 2008 to lower this risk. SWCA plans to develop an intricate wildfire risk and hazard assessment that will apportion risk across the varied landscape. This risk assessment will require refining the existing fuel classification layers to incorporate recent and planned fuel treatment projects on local and landscape scales. The updates of these CWPPs will involve collaborative planning that incorporates a large range of stakeholders representing local, county, state, and federal agencies. *Role: GIS Specialist. Performed fire behavior modeling and risk assessment analysis and created and edited maps and posters for the report.*

**Sandoval County CWPP; Sandoval County; Sandoval County, New Mexico.** in 2008, SWCA prepared a comprehensive CWPP to assist Sandoval County in reducing the risk of catastrophic wildfire to communities, including the city of Rio Rancho and five other

municipalities. In 2012, SWCA was retained to assist Sandoval County with an update to the 2008 plan to incorporate changes to the community and landscape resulting from recent fire occurrence and a suite of treatments that had been implemented following the original CWPP. SWCA reconvened a core team of stakeholders to collaboratively update the CWPP. *Role: GIS/CADD Technician. Created and edited maps and posters for the project and reports.*

**Valencia County CWPP Update; County of Valencia; Los Lunas, Valencia County, New Mexico.** SWCA completed the original Valencia County CWPP in 2012 and was contracted to complete the 5-year update in 2017. The Valencia County CWPP addresses wildfire risk and hazard to communities located in the WUI, which includes several high risk communities located close to the Rio Grande River corridor. The original CWPP and update include extensive fire behavior modeling to guide the development of risk reduction recommendations related to fire response, fuel reduction, public education and outreach, and structural ignitability. *Role: GIS Specialist. Performed fire behavior modeling and risk assessment analysis and created and edited maps and posters for the report.*

**Mobile Wildland Fire Workshop Development; CPSWCD; Mountainair, Torrance County, New Mexico.** SWCA worked with the CPSWCD in the development of an educational display to be used for wildfire preparedness and prevention education throughout New Mexico. The display built on information contained in the Claunch-Pinto and Torrance County CWPPs that SWCA originally developed in 2007 and updated in 2016. The display included a series of graphics and informational text describing fire ecology concepts, fire response and operations, post-fire hazards and threats, and fire prevention actions. The display has been used to educate communities across the state. *Role: GIS Specialist. Ms. Russell designed and edited large multi-panel, mobile poster displays and coordinated with the project manager and team for content editing, compilation, and design components. She also designed and edited associated handouts and other materials.*

**; Middle Rio Grande Conservancy District; Bernalillo County, New Mexico.** As this CWPP spanned four counties within the Middle Rio Grande Conservancy District, SWCA's recommendations were based on our performance of a comprehensive risk assessment that incorporated numerous data layers collected from municipal, tribal, county, state, and federal agencies. The project was completed within budget and on schedule. *Role: GIS/CADD Technician. Coordinated with the project team and client to gather spatial data and other content to develop a story map and hub site for the WPP update.*

**Otero County CWPP; Otero County; Alamogordo, Otero County, New Mexico.** SWCA worked with a large multi-agency working group to develop a CWPP that would address catastrophic fire risk in a diverse WUI. SWCA developed an intricate wildfire risk and hazard assessment that apportioned risk across the varied landscape. The risk assessment required refining an existing fuel classification layer to incorporate recent and planned fuel treatment projects on local and landscape scales. The CWPP involved collaborative planning that incorporated a large range of stakeholders representing local, county, state, and federal agencies. The CWPP was approved and supported by all stakeholders and is being used to implement recommended fuel reduction projects in a number of high-risk watersheds. *Role: GIS Specialist. Created and edited maps and posters for the project and reports.*

**Quay County CWPP; Quay County; Quay County, New Mexico.** SWCA worked with Quay County to develop a CWPP that addressed the specific needs and concerns of the county. The plan involved a high level of public participation as well as collaborative planning involving various county, state, and federal agencies. Collaborative planning was essential for successfully implementing recommendations, as most of the land in the county is privately owned. The risk assessment was specific to agricultural lands and grasslands but also considered all features of the landscape. *Role: GIS/CADD Technician. Created and edited maps and posters for the project and reports.*

**Salinas Pueblo Mission Fire Management Plan (FMP) Environmental Assessment (EA); National Park Service (NPS); Torrance County, New Mexico.** SWCA was awarded an NPS Blanket Purchase Agreement (BPA) contract to provide NEPA support and fire management expertise in the update of NPS FMPs. SWCA completed 10 task orders under this BPA. Tasks included FMP/EA development and revisions, ceramic analysis, National Register of Historic Places nominations, and a water rights inventory. Notable projects included the Appalachian National Scenic Trail FMP revision covering 14 states from Georgia to Maine; the Cumberland Gap National Historical Park FMP and EA; Kentucky, Tennessee, and Virginia; and the Utah Parks FMP and EA in multiple national parks throughout Utah. *Role: GIS Specialist. Created and edited maps for reports.*

## YEARS OF EXPERIENCE

17

## EXPERTISE

Wetland delineation

Threatened and endangered species surveys

Vegetation inventories and habitat assessments

USFWS trained and certified with yellow-billed cuckoo and southwestern willow flycatcher

USFWS trained and certified

## EDUCATION

M.S., Fisheries and Wildlife Management; Texas Tech University; 2004

B.S., Biology, m: Chemistry; University of Minnesota, Duluth; 2000

## REGISTRATIONS / CERTIFICATIONS

New Mexico: U.S. Army Corps of Engineers; 2005

## PERMITS

Navajo Nation, Office of Speaker Biological Investigations Permit (1239); Navajo Nation lands

USFWS Threatened and Endangered Species Recovery Permit (TE028605-8); Permittee; New Mexico

New Mexico Department of Game &amp; Fish Take Permit (3143)

USFWS Threatened &amp; Endangered Species Recovery Permit (TE045236-1); New Mexico

## JESSE SHUCK, M.S., CWA SECTION 404 PERMITTING LEAD/BIOLOGIST

Mr. Shuck is an environmental scientist with more than 17 years of experience conducting environmental surveys for projects throughout New Mexico. He is familiar with compliance concerns regarding the CWA, ESA, the Bald and Golden Eagle Protection Act, and conducts threatened and endangered species-specific surveys throughout the Southwest. Mr. Shuck will lead the natural resources field aspect of this project. He is adept at working with state and federal landowners, including the USFS, New Mexico Department of Game & Fish, BIA, BLM, Reclamation, and NPS. His prior projects have included habitat restoration planning, wetland field investigations and CWA permitting, and threatened and endangered species habitat identification and monitoring.

### SELECTED PROJECT EXPERIENCE (\* denotes project experience prior to SWCA)

**Ute Park Fire Burned Area Emergency Rehabilitation (BAER) Team; New Mexico Department of Homeland Security and Emergency Management (NMDHSEM); Ute Park, Colfax County, New Mexico.** SWCA was contracted by the NMDHSEM to complete a damage assessment and BAER plan following the 2018 Ute Park Fire; the fire damaged and disrupted watershed function on 36,740 acres of private forested land near Cimarron New Mexico, and threatened municipal water supplies for several communities downstream. SWCA engineers recommended a host of structural measures to mitigate potential post-fire flooding impacts to municipal and agricultural water quality and infrastructure. SWCA biologists and watershed specialists recommended soil stabilization measures and actions to mitigate soil erosion and debris flow and establish native vegetation cover. *Role: Environmental Specialist.*

**Albuquerque Bernalillo County Water Utility Authority (ABCWUA) Environmental Mitigation Monitoring; Albuquerque Bernalillo County Water Utility Authority; Bernalillo County, New Mexico.** SWCA conducted mitigation monitoring for the ABCWUA Drinking Water Diversion Facility. This study focused on estimating the number of Rio Grande silvery minnow eggs that are potentially entrained into the diversion. *Role: Environmental Specialist.*

**Gaucha-Thistle Pipeline Environmental Services; Enterprise Products Operating, LLC; Eddy County, New Mexico.** SWCA is providing environmental compliance services for a new, approximately 20-mile crude oil pipeline in southeastern New Mexico. The project traverses through lands administered by the BLM Carlsbad Field Office, in addition to New Mexico state trust lands and private lands. Services include biological and cultural resources surveys, lesser prairie-chicken (LPC) protocol surveys, and

preparation of an environmental assessment for the BLM. LPC surveys followed BLM survey protocol. *Role: Environmental Specialist.*

\* **Sapello Creek Crossing; County of San Miguel Public Works; San Miguel County, New Mexico.** In his previous position, Mr. Shuck was contracted by the County of San Miguel to permit a bridge reconstruction over Sapello Creek. This project included the delineation of streamside wetlands as well and coordination with the New Mexico Environment Department Surface Water Bureau and the U.S. Army Corps of Engineers to acquire a CWA Section 404/401C permit for activities associated with the bridge reconstruction. *Role: Project Manager. Performed wetland delineations and assisted with preparation of the permit.*



**YEARS OF EXPERIENCE**

20

**EXPERTISE**

Amphibians and reptiles of the Southwest United States

Pitfall trap arrays and mark-recapture studies

Threatened and endangered species surveys and habitat evaluations

Wetland delineation and Clean Water Act permitting

**EDUCATION**

M.S., Biology, e: Herpetology; University of Texas at El Paso, Texas; 2002

B.S., Biology, e: Zoology; New Mexico State University, Las Cruces, New Mexico; 1995

**PERMITS**

USFWS Threatened and Endangered Species Recovery Permit (TE028605-6 and TE045236-1); Permittee

New Mexico Department of Game & Fish Threatened and Endangered Species Permit (3143-1); Permittee

**MATTHEW MCMILLAN, M.S., ESA LEAD/  
BIOLOGIST**

Mr. McMillan is a biologist and herpetologist in SWCA's Albuquerque office. He specializes in natural resources studies throughout the Southwest, including threatened and endangered species surveys and habitat assessments, wetland delineations and permitting, vegetation sampling, habitat restoration, and ecological monitoring. He has 20 years of experience with private, federal, state, and local clients and has worked both in an academic setting and with private research organizations and resource management companies. He has worked on threatened and endangered species issues in riparian systems on the Rio Grande, Canadian, Gila, and Pecos Rivers in New Mexico for the NMISC, New Mexico Department of Transportation, the USACE, and Reclamation. Mr. McMillan has worked with clients to identify, develop, and monitor habitat restoration sites and provided environmental compliance surveys of habitat restoration sites prior to, during, and postconstruction. He has worked in the Chihuahuan, Sonoran, and Mojave Deserts on the systematics, biogeography, and conservation biology of reptiles specifically, population monitoring of desert tortoise and Gila monster. Mr. McMillan has

worked under USFWS 10(a)1(A) permits to handle, bleed, and rehydrate desert tortoise in Arizona, California, Nevada, and Utah. He is currently permitted to handle federally endangered fishes, including the Rio Grande silvery minnow, loach minnow, and spikedace. He is also permitted to handle threatened and endangered amphibians and reptiles, including the Chiricahua leopard frog, Jemez Mountains salamander, dunes sagebrush lizard, narrow-headed gartersnake and Mexican gartersnake.

**SELECTED PROJECT EXPERIENCE**

**Candelaria Nature Preserve Resource Management Plan (RMP); City of Albuquerque;** Bernalillo County, New Mexico. *Role: Project Manager/Biologist. Worked with the City of Albuquerque Parks & Recreation, Open Space Advisory Board, and Technical Advisory Group to plan, develop, and write the Candelaria Nature Preserve RMP. Performed project management, report writing, public meeting support, and agency consultation.*

**Wildlife Monitoring for the City of Albuquerque Parks and Open Space On-Call; City of Albuquerque; Bernalillo County, New Mexico.** *Role: Project Manager/Biologist. Conducted preconstruction environmental monitoring of wildlife communities at the Candelaria Nature Preserve to support the proposed RMP. Performed project management, biological report writing, and agency consultation.*

**Albuquerque Trails Monitoring Project; City of Albuquerque; Bernalillo County, New Mexico.** *Role: Project Manager/Biologist. Conducted pre- and postconstruction environmental monitoring of soils, vegetation, and bird communities along bosque trails for the Rio Grande Vision Corridor Plan improvements along the Rio Grande in Albuquerque. Performed project management, natural resources surveys, biological report writing, public meeting support, and agency consultation.*

**San Acacia Habitat Restoration Project; NMISC; Socorro County, New Mexico.** *Role: Project Manager/Biologist. Conducted aquatic resources surveys and reporting at habitat restoration sites on the Rio Grande. Performed project management, biological assessment (BA) writing, and agency consultation.*

**Middle Rio Grande Habitat Restoration Project Phases I, II, and IIa; NMISC; Bernalillo and Sandoval Counties, New Mexico.** *Role: Natural Resources Lead/Biologist. Conducted biological and aquatic resources surveys and reporting at habitat restoration sites. Conducted construction monitoring and water quality sampling during in-water construction activities. Performed preconstruction biological and aquatic resources surveys, BA and construction report writing, and agency consultation.*

## YEARS OF EXPERIENCE

25

## EXPERTISE

Cultural resources management

Archaeology

History

NEPA

## EDUCATION

M.A., Anthropology, c: Archaeology;  
University of New Mexico, New Mexico;  
1996

M.A., Journalism; Indiana University,  
Indiana; 1986

B.A., Journalism and Political Science;  
Indiana University, Indiana; 1982

## PERMITS

New Mexico Historic Preservation  
Division Archaeological Investigation  
Permit (ABE-22-055, NM-22-055-S, NM-  
22-055-M, NM-22-055-T), Principal  
Investigator/Project Director,  
Supervisory Archaeologist/Crew  
Chief/Historian; New Mexico

Navajo Nation Historic Preservation  
Department Cultural Resources  
Investigation Permit (AP-20-040), Direct  
Charge; Navajo Nation lands, New  
Mexico

U.S. Bureau of Land Management  
Cultural Resource Use Permit (110-  
2920-20-QQQ), Field Supervisor /  
Project Director; New Mexico

## MEMBERSHIPS

President, New Mexico Archaeological  
Council; 2002

## TERESA HURT, M.A., CULTURAL RESOURCES PRINCIPAL INVESTIGATOR

Ms. Hurt is an archaeologist, historian, and environmental compliance specialist with more than 23 years of professional experience. As an archaeological principal investigator, she has managed cultural resources inventory and mitigation projects throughout New Mexico. She is also a listed historian in the New Mexico SHPO's Directory of Qualified Supervisory Personnel and has extensive experience conducting historic building inventories, archival and oral-historical research, and completing NRHP nominations and Historic American Buildings Survey/Historic American Engineering Record (HABS/HAER) documentation. She has authored well over 100 cultural resources management reports, peer-reviewed books, and journal publications. Ms. Hurt has managed many complex, multidisciplinary environmental projects involving coordination of large teams and consultation with multiple state and federal agencies. She has served as the PM and main point of contact for a variety of statewide on-call environmental and cultural resource services contracts for state agencies in New Mexico, including both the New Mexico State Parks Division and the Abandoned Mine Land Program of the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD).

### SELECTED PROJECT EXPERIENCE (\* denotes project experience prior to SWCA)

**\* Albuquerque Rail Yards HABS Documentation; Harmen + Majewski Design Group; Bernalillo County, New Mexico.** This project was a HABS recording project at The City of Albuquerque is planning to rehabilitate the flue shop building at the historic Atchison, Topeka & Santa Fe (AT&SF) Railway Locomotive Shops as part of a multiphase redevelopment plan for the railyards site, and the HABS documentation was conducted in compliance with historic preservation stipulations in a memorandum of understanding between the City and the New Mexico State Historic Preservation Officer. *Role: Lead Historian. Led a team that conducted Level III HABS documentation, including large-format photography, of the 1920 flue shop, one of 21 contributing resources to the AT&SF Locomotive Shops Historic District.*

**\* 2nd Street and Rio Bravo Intersection Improvements; Bernalillo County; Bernalillo County, New Mexico.** This project in the South Valley area of Bernalillo County. This Federal Highway Administration (FHWA)-funded project documented and assessed potential effects to six historic cultural properties, including a segment of the historic AT&SF Railway and five historic water delivery systems that are part of the Middle Rio Grande Conservancy District system of irrigation ditches and drains. *Role: Archaeological Principal Investigator/Historian/National Environmental Policy Act (NEPA)*

*Lead. Led the cultural resources survey and completed a New Mexico Department of Transportation (NMDOT) Categorical Exclusion.*

**\* NM 314/147 Intersection Improvements Project; Bernalillo County; Pueblo of Isleta, New Mexico.** This project on the Pueblo of Isleta required National Historic Preservation Act Section 106 and NEPA compliance. The project involved assessments of effects to a number of important cultural resources in the project area, including the Camino Real, the pre-1937 alignment of Historic Route 66, and the Isleta Indian Drain. *Role: Archaeological Principal Investigator/Environmental Compliance Lead. Oversaw cultural and biological resources surveys and completed an environmental assessment (EA) that satisfied the requirements of both the Bureau of Indian Affairs and the FHWA/NMDOT.*

SWCA

APPENDIX B:  
Insurance Certificate



SWCA

APPENDIX C:  
Letters of Reference



*Board of Supervisors:*

*Felipe Lovato, Jr., Chairman  
LeRoy Candelaria, Vice-Chairman  
David Cain, Secretary*

*Jack Lockridge, Treasurer*

*Larry Gomez, Member  
Robin Dunn, Member  
Dan Williams, Member*

*Staff:*

*Dierdre L. Tarr, District Manager  
Vernon Kohler, Field Technician*

January 22, 2021

Claire Gonzales  
Senior Buyer, Department of Finance and Administrative Services  
City of Albuquerque Purchasing Division  
PO Box 1293  
Albuquerque, NM 87103  
505-768-3329  
cdgonzales@cabq.gov

Re: Letter of reference for SWCA Environmental Consultants for RFP-2021-086-PRK-IC

Dear Ms. Gonzales,

Claunch-Pinto Soil and Water Conservation District (SWCD) has a long, successful history of working with SWCA, and I highly recommend them to the City of Albuquerque for the Rio Grande Bosque Wildfire Mitigation Services Project. SWCA's Team provides top-notch deliverables that often require little or no rework and meet the needs of funding agencies.

Most recently, we have partnered with SWCA for the Claunch-Pinto SWCD Wildfire Mitigation Project, funded through the FEMA Hazard Mitigation Grant Program. SWCA wrote and published the Environmental Assessment (EA) and Biological Assessment (BA) for the project, which led to Federal Emergency Management Agency (FEMA) issuing a Finding of No Significant Impact (FONSI) for hazardous fuel reduction treatments on 135 acres of northern portions of the Manzano Mountains in Torrance County. SWCA also conducted cultural surveys and wrote the cultural resource report to comply with the National Historic Preservation Act.

Cody Stropki and other members of the SWCA Team provide timely and professional deliverables that meet the requirements of all federal and state environmental review agencies, such as FEMA, the New Mexico Department of Homeland Security and Emergency Management, the U.S. Fish and Wildlife Service, and the New Mexico State Historic Preservation Division.

SWCA's experience leading both wildfire planning projects as well as National Environmental Policy Act compliance documents is a strong combination for completing the necessary environmental compliance requirements for projects funded through the FEMA Hazard Mitigation Grant Program.

Please feel free to contact me at [dierdre.tarr@nm.nacdnet.net](mailto:dierdre.tarr@nm.nacdnet.net) if you have any questions.

Sincerely,

Dierdre Tarr  
District Manager  
Claunch-Pinto Soil and Water Conservation District



January 22, 2021

Claire Gonzales
Senior Buyer, Department of Finance and Administrative Services
City of Albuquerque Purchasing Division
PO Box 1293
Albuquerque, NM 87103
505-768-3329
cdgonzales@cabq.gov

Re: Letter of reference for SWCA Environmental Consultants for RFP-2021-086-PRK-IC

COUNTY COUNCIL

Sara C. Scott
Council Chair

Randall T. Rytli
Council Vice-Chair

COUNCILORS

David Izraelevitz
Antonio Maggiore
Katrina Martin
James N. Robinson
Pete Sheehey

COUNTY MANAGER

Harry Burgess

FIRE CHIEF

Troy Hughes

DEPUTY FIRE CHIEF

Steven Dawald

Dear Ms. Gonzales,

I had the pleasure of working with SWCA Environmental Consultants (SWCA) in 2017 and 2018 on the Los Alamos County Mitigation and Public Education Project. SWCA supported Los Alamos County with our FEMA Hazard Mitigation Grant requirements, including writing, and publishing the Environmental Assessment (EA), Decision Notice, and Finding of No Significant Impact (FONSI). SWCA also wrote the biological assessment and cultural resource report to comply with the Endangered Species Act and National Historic Preservation Act, respectively.

Cody Stropki and his team at SWCA provided frequent communication on project developments and developed high-quality deliverables that met the standards of the federal and state agencies involved in the environmental review process. The EA resulted in a FONSI, which allowed the wildfire mitigation project to be implemented as planned.

SWCA contributed to making Los Alamos County a safer place due to the tireless effort put into the planning side of the grant. The project was a very heavy lift for all involved and the first NMDHSEM multi-phase project to be completed in New Mexico. This was a wonderful experience in relation to the collaboration of outside agencies and across many Los Alamos County departments.

In conclusion, I recommend SWCA's Team to the City of Albuquerque for the Rio Grande Bosque Wildfire Mitigation Services Project. Please do not hesitate to contact me at kelly.sterna@lacnm.us if you have any questions.

Sincerely,

[Handwritten signature of Kelly Sterna]

Kelly Sterna
Wildland Division Chief
Los Alamos County Fire Department



# Valencia County Fire Department Fire/Rescue

444 Luna Ave. / P.O. Box 1119 Los Lunas, NM 87031  
Office: (505)866-2040 Fax: (505) 866-8749

January 22, 2021

Claire Gonzales  
Senior Buyer, Department of Finance and Administrative Services  
City of Albuquerque Purchasing Division  
PO Box 1293  
Albuquerque, NM 87103  
505-768-3329  
cdgonzales@cabq.gov

Re: Letter of reference for SWCA Environmental Consultants for RFP-2021-086-PRK-IC

Dear Ms. Gonzales,

I am writing to provide a reference letter for SWCA Environmental Consultants (SWCA) for your upcoming wildfire mitigation project in the Rio Grande State Park Bosque. I worked with Vicky Amato and Cody Stropki in 2017 and 2018 on an update to the Valencia County Community Wildfire Protection Plan (CWPP). SWCA also wrote the original CWPP in 2012.

The Valencia County CWPP is a county-wide plan that evaluations wildfire threat to communities and infrastructure and identifies measures that homeowners, land managers, and fire districts can take to reduce the impact of wildfire to live, property, and other Community Values at Risk. Similar to the City of Albuquerque, the Valencia County CWPP involve analysis and planning for wildfire in the Rio Grande bosque.

Vicky, Cody, and other members of the SWCA team facilitated all aspects of the CWPP process including planning and facilitating Core Team meetings, engaging interested members of the public, summarizing wildfire mitigation actions taken since 2012, updating fire occurrence history as well as the community risk assessment since the original CWPP was written, and identifying new wildfire mitigation projects to be implemented within the County. Working with SWCA made the CWPP process proceed smoothly and the resulting CWPP was of very high quality. I appreciated the timely communication from the SWCA Team and their professionalism.

In conclusion, I recommend SWCA's Team to the City of Albuquerque for the Rio Grande Bosque Wildfire Mitigation Services Project. Please do not hesitate to contact me at [rob.barr@co.valencia.nm.us](mailto:rob.barr@co.valencia.nm.us) if you have any questions.

Sincerely,

A handwritten signature in black ink that reads "Rob Barr".

Rob Barr  
Wildland Captain  
Valencia County Fire Department



SWCA

## APPENDIX D:

Signed Addendum # 1 and #2

# City of Albuquerque

## Addendum #1

**Solicitation Number: RFP-2021-154-PRK-CG**

**Solicitation Title: Rio Grande Bosque Wildfire Mitigation Services**

**Released: 03/01/2020**



**Deadline for Receipt of Bids: DATE: 03/26/2020 4:00 p.m. (Mountain Time)**

**The City eProcurement System will not allow Proposals to be submitted after this date and time.**

**City of Albuquerque  
Department of Finance and Administrative Services  
Purchasing Division**

**The purpose of this Addendum No. 1 is to respond to questions that were timely submitted by potential offerors. Questions may be paraphrased:**

1. Question: The cover page and page 5 have conflicting times for the non-mandatory pre-proposal conference on 03/29/2021. Which is correct?

ANSWER: 3:00 PM is correct.

2. Question: Will the City require field surveys and a report (typically a Biological Assessment) to support consultation with U.S. Fish and Wildlife Service under the Endangered Species Act Section 7?

ANSWER: Yes

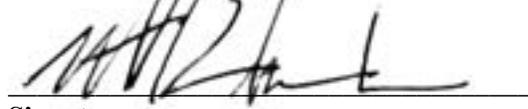
3. Question: Will the City require field surveys or reporting to support consultation with the NM SHPO for compliance with Section 106 of the National Historic Preservation Act Section 106?

ANSWER: Yes

**Please incorporate the change in this Addendum into the original RFP document. Sign and return this Addendum with your RFP response. Failure to acknowledge an Addendum may result in your response being deemed non-responsive.**

\*\*\*\*\*

**Acknowledged & Returned:**



**Signature**

Matt Edwards, Vice President, New Mexico - Four Corners  
**Printed Name Title Company**

# City of Albuquerque

## Addendum #2 Issued March 26, 2021

Solicitation Number: RFP-2021-154-PRK-CG

**Rio Grande Bosque Wildfire Mitigation Services**



**Deadline for Receipt of Proposals: April 9, 2021: 4:00 p.m. (Mountain Time)**  
**The City eProcurement System will not allow Proposals to be submitted after this date and time.**

**City of Albuquerque  
Department of Finance and Administrative Services  
Purchasing Division**

**The purpose of this Addendum is to extend the deadline for proposals due to April 9, 2021 at 4:00 PM and to respond to questions that were timely submitted by potential offerors. Questions may be paraphrased:**

1. Question: Do you expect the project cost to be based on time and materials or lump sum?  
ANSWER: Please refer to Section 2.2 of the RFP.
2. Question: In provision 3.B Method of Payment in the Draft Agreement, does the “TBD” indicate that rather than payment upon task completion a monthly payment process would be considered?  
ANSWER: The payment schedule may be negotiated with the awarded vendor.
3. Question: The Draft Agreement (Sections 1.A.3 and 4) includes a “final report to the City”. Is this a deliverable under the scope?  
ANSWER: Per section 3.1 and 3.2 in the scope of services, a final report is due as well as a final Project Plan to the city.
4. Question: Will the components of the wildfire mitigation project (Project Plan) be the basis of the project description in the Environmental Assessment?  
ANSWER: The EA and other required permits will need to be a major factor in determining the Project Plan.
5. Question: Is the 470-acre parcel considered to be the entire project site where the fuel wood reduction and exotic species removal and revegetation activities need to occur?  
ANSWER: Yes, it is only within the identified project area.
6. Question: Is a map available providing the relationship between the 4,027 acre forest and the 470-acre parcel identified for mitigation?  
ANSWER: A project overview map has been included in the Addendum outlining the project site in relationship of the Bosque. A description of the project locations is also included in the RFP.
7. Question: Has Phase I funding from DHSEM been obtained (triggering NEPA)?  
ANSWER: Yes, Phase I funding from FEMA was awarded to DHSEM on November 6, 2019. The sub-grant agreement with the City for Phase I funds was executed on February 17, 2020.
8. Question: Is there a maximum number of alternatives that may be analyzed in the EA?  
ANSWER: At a minimum, FEMA wants to see the No Action and Proposed Action/Preferred Alternative analyzed in the EA. If these are the only two alternatives analyzed in full, FEMA would like to see a brief discussion in the Alternatives section on a few alternatives that were considered but dismissed from further consideration in the EA. There technically is no maximum number of action alternatives that can be analyzed in the EA, but if these are included, FEMA recommends limiting it to 1-2 action alternatives given time and page limits (75 pages not including tables, figures,

appendices) for EAs under the upcoming revised 2020 NEPA regulations.

9. Does DHSEM have an EA format that the contractor should follow?

ANSWER: No, DHSEM does not have an EA format to follow however FEMA Region VI has format requirements that will come from FEMA's revised 2020 NEPA regulations. The 2020 NEPA regulations are still under review. For project specific details please see the attached PDF titled "*EHP Phase I Input\_ABQ Fuels Reduction 5184-NM Project #4*". For current EA guidelines, please see the attached document titled "*Writing Tips Environmental Assessment FEMA AUG 2016*" however please note the 2020 NEPA regulations will need to be followed.

**Please incorporate the change in this Addendum into the original Proposal document. Offeror must acknowledge receipt of this addendum in the City's eProcurement system. Failure to acknowledge an Addendum may result in your response being deemed non-responsive.**

\*\*\*\*\*

**Acknowledged & Returned:**



**Signature**

Matt Edwards, Vice President, New Mexico - Four Corners

**Printed Name Title Company**

## APPENDIX A COST PROPOSAL

Identify deliverables of service to be billed under the contract resulting from this RFP. The billing rates should be fully burdened, including overhead, profit, all benefit expenses, training, costs for obtaining insurance, support and administrative services, etc.

The City will only allow for reimbursement costs for travel and travel-related expenses actually incurred during and for the performance of services for the contract awarded under this RFP, and requires that such expenses shall have prior approval of the City.

Below are the deliverables the City has identified as requirements (Part 3 Scope of Services). Offeror shall provide individual tasks to complete each deliverable with the associated cost, per deliverable completed, and anticipated project schedule.

Detailed Deliverable to the City	Rate	Schedule to complete each deliverable
<i>Establish parameters of the project</i>		
Project kick-off with the City and ongoing project management	\$5,297	4/16/2021 to 9/30/2021
<b>Subtotal</b>	<b>\$5,297</b>	
<i>Research existing environmental data and compile narrative</i>		
Review existing data and agency scoping	\$3,653	4/19/2021 to 4/30/2021
<b>Subtotal</b>	<b>\$3,653</b>	
<i>Process required permits</i>		
Cultural Resource Investigation for NHPA Section 106	\$43,975	4/26/2021 to 8/30/2021
Biological survey and evaluation for ESA Section 7	\$8,892	4/26/2021 to 6/28/2021
Clean Water Act, Section 404 permitting	\$1,730	7/26/2021 to 8/31/2021
Clean Water Act, Stormwater Pollution Prevention Plan (SWPPP)	\$4,094	7/26/2021 to 8/27/2021
<b>Subtotal</b>	<b>\$58,691</b>	
<i>Complete Environmental Assessment</i>		
Environmental Assessment and FONSI	\$17,368	4/26/2021 to 8/31/2021
<b>Subtotal</b>	<b>\$17,368</b>	
<i>Develop prescription for fuel thinning</i>	Not budgeted separately. Included under project plan design (below).	
<b>Subtotal</b>	-	
<i>Develop project plan</i>		
Project Plan Design	\$9,822	5/3/2021 to 8/31/2021
<b>Subtotal</b>	<b>\$9,822</b>	
Assist City with NMDHSEM sub-grant phase II	\$2,419	9/1/2021 to 9/30/2021
<b>Subtotal</b>	<b>\$2,419</b>	
<b>Total Project Cost</b>	<b>\$97,250</b>	

Include applicable New Mexico gross receipts tax in all rates.

DO NOT INCLUDE THE COST PROPOSAL (OR ANY COSTS) IN THE TECHNICAL PROPSAL.



## COST PROPOSAL

### RIO GRANDE BOSQUE WILDFIRE MITIGATION SERVICES / RFP-2021-154-PRK-CG

#### BUDGET ASSUMPTIONS AND SUPPORTING BUDGET TABLE

SWCA has developed the following assumptions to inform our proposed technical approach and our budget estimate. Table 1 (below) provides SWCA's detailed project budget, broken down by staff labor hours, expenses, and New Mexico Gross Receipts Tax (NMGRT).

- The total size of the project area to be analyzed and permitted under the National Environmental Policy Act, Clean Water Act, Endangered Species Act, and National Historic Preservation Act will be limited to 470 acres.
- The SWCA project manager and deputy project manager will attend the virtual kick-off meeting with the City.
- Total project period will not last longer than 6 months.
- No public meetings will be required for this scope of work.
- No more than 15 total comment submissions will be analyzed during each of the two public review periods (for the draft EA and draft project design plan).
- The public involvement strategy will consist of a brief memorandum to be reviewed by the City, as needed, following the kick-off meeting. The memorandum will identify project stakeholders and an associated mailing list to be involved in developing alternatives for the EA and the project design plan.
- SWCA will develop and maintain a project mailing list in coordination with the City. Our budget assumes that the mailing list will consist of no more than 100 stakeholders. SWCA will facilitate one combined notification to the mailing list for the draft EA and the draft project plan. For the mailing, a 1-page letter will be mailed to each recipient on the mailing list informing them where the documents are posted online for public review.
- SWCA will facilitate one virtual meeting with stakeholders to identify alternatives and discuss the impact analysis process. This meeting will also inform the development of the project design plan.
- No specialist reports will be written to support the EA. Instead, SWCA will draft the EA based on publicly available data for the project area; peer-reviewed literature; and data provided by the City, NMDHSEM, and FEMA. Following the initial data review process, SWCA will compile a data request for any additional information that is not available from public sources required to complete a comprehensive resource analysis.
- The EA will include two alternatives for detailed analysis: the proposed action and no action alternatives. The proposed action can be developed as a toolbox approach to accommodate multiple wildfire mitigation approaches and activities under one full alternative.
- SWCA will not be required to print or mail hardcopies of the draft EA or draft project plan.
- The City is responsible for preparing information for release to news media. The City will designate an official spokesperson to receive media and public contacts.
- SWCA has budgeted 40 hours for the biological field survey. This will include a desktop review of existing data and a general biological survey, including animal and plant species within the project area. No species-specific surveys have been budgeted. The field survey will also identify the ordinary high-water mark (OHWM) of waters of the U.S. that may be impacted by the proposed project plan design. A formal wetland delineation survey and report have not been budgeted for this project.

- SWCA will write a biological report to support ESA Section 7 consultation with the USFWS. SWCA anticipates ESA Section 7 consultation will be satisfied through informal consultation. Therefore, a BA (required for formal consultation) will not be required.
- SWCA will conduct the appropriate-level cultural resources investigation and reporting to comply with Section 106 of the NHPA and facilitate consultation with the New Mexico SHPO.
- Based on SWCA’s understanding of the project area, we have budgeted for a 100% pedestrian survey (Class III) of the full 470-acre project area and recording of up to 12 previously recorded archaeological sites and/or historic structures that fall within the proposed project areas, as shown in the map provided in Addendum 2 of the RFP. If SHPO concurs that a Class III survey and report is not required, SWCA will work with the City to reduce the level of effort and associated cultural resources investigation budget. Given the previous survey coverage, and the floodplain setting of the project areas, it is not anticipated that any new, undiscovered archaeological sites or historic structures will be identified in the project areas.
- For CWA Section 404 permitting, SWCA assumes that a formal wetland delineation report will not be required. Instead, SWCA will identify the OHWM that applies to the pertinent water(s) of the U.S. SWCA assumes the Project will qualify for a nationwide permit. SWCA has budgeted time to develop one preconstruction notification for the USACE.
- For the SWPPP, SWCA has budgeted for 44 staff hours to develop the SWPPP document and post the NOI with the EPA. Best management practices to be included in the SWPPP will be developed in partnership with the City. The SWPPP will be circulated with the City for one review period.
- The City, the NMDHSEM, and/or FEMA will be responsible for consulting with Native American tribes, the New Mexico SHPO, the USACE, and the USFWS. This documentation will be available for inclusion as appropriate in the EA.
- The City, the NMDHSEM, and FEMA are responsible for posting all relevant disclosure documents on the web.
- Upon completion of all environmental compliance and permitting steps described above, SWCA has allocated up to 22 staff hours to assist the City with compiling the necessary documents, benefit-cost analysis, and cost estimates for Phase II of the NMDHSEM sub-grant to implement the wildfire mitigation project.

**Table 1. SWCA’s Detailed Project Budget.**

EMPLOYEE	LABOR HOURS	COST
<b>TASK: PROJECT KICK-OFF WITH THE CITY AND ONGOING PROJECT MANAGEMENT</b>		
Cody Stropki	12	\$1,847
Coleman Burnett	24	\$3,305
Expenses	-	-
NMGRT	-	\$145
<b>Task Subtotal</b>	<b>36</b>	<b>\$5,297</b>
<b>TASK: REVIEW AVAILABLE RESOURCE DATA AND AGENCY SCOPING</b>		
Cody Stropki	2	\$308
Coleman Burnett	6	\$826
Vicky Amato	4	\$541
Jenn Clayton	4	\$403
Alex Simons	4	\$392
Paul Makarewicz	4	\$331

EMPLOYEE	LABOR HOURS	COST
Anne Russell	2	\$202
Ari Porter	4	\$248
Tasha Martz	4	\$277
Expenses	-	\$29
NMGRT	-	\$95
<b>Task Subtotal</b>	<b>34</b>	<b>\$3,653</b>
<b>TASK: ENVIRONMENTAL ASSESSMENT AND FONSI</b>		
Cody Stropki	4	\$616
Coleman Burnett	30	\$4,131
Jenn Clayton	32	\$3,226
Alex Simons	32	\$3,139
Paul Makarewicz	32	\$2,650
Heidi Orcutt-Gachiri	3	\$413
Kimberly Proa	7	\$561
Matt DeFreese	10	\$828
Jason Glenn	12	\$1,102
Tasha Martz	4	\$277
Expenses	-	\$40
NMGRT	-	\$386
<b>Task Subtotal</b>	<b>166</b>	<b>\$17,368</b>
<b>TASK: CULTURAL RESOURCES INVESTIGATION FOR NHPA SECTION 106 COMPLIANCE</b>		
Teresa Hurt	40	\$5,508
Megan Weldy	213	\$17,636
Paisley DeFreese	153	\$9,501
Matt DeFreese	36	\$2,981
Danielle Desruisseaux	16	\$1,613
Kelly Cox	6	\$545
Tasha Martz	3	\$208
Expenses	-	\$2,930
NMGRT	-	\$3,053
<b>Task Subtotal</b>	<b>467</b>	<b>\$43,975</b>
<b>TASK: BIOLOGICAL SURVEY AND EVALUATION FOR ESA SECTION 7 COMPLIANCE</b>		
Coleman Burnett	2	\$275
Jenn Clayton	4	\$403
Matt McMillan	4	\$479
Ian Dolly	64	\$5,299
Kimberly Proa	4	\$320
Matt DeFreese	8	\$662
Jason Glenn	6	\$551
Tasha Martz	2	\$139
Expenses	-	\$227

EMPLOYEE	LABOR HOURS	COST
NMGRT	-	\$536
<b>Task Subtotal</b>	<b>94</b>	<b>\$8,892</b>
<b>TASK: CLEAN WATER ACT COMPLIANCE, SECTION 404 PERMITTING</b>		
Coleman Burnett	2	\$275
Jesse Shuck	12	\$1,328
Expenses	-	-
NMGRT	-	\$126
<b>Task Subtotal</b>	<b>14</b>	<b>\$1,730</b>
<b>TASK: CLEAN WATER ACT COMPLIANCE, STORMWATER POLLUTION PREVENTION PLAN</b>		
Coleman Burnett	2	\$275
Alex Simons	12	\$1,177
Paul Makarewicz	16	\$1,325
Kimberly Proa	4	\$320
Matt DeFreese	6	\$497
Jason Glenn	4	\$367
Expenses	-	-
NMGRT	-	\$132
<b>Task Subtotal</b>	<b>44</b>	<b>\$4,094</b>
<b>TASK: PROJECT PLAN DESIGN</b>		
Cody Stropki	8	\$1,231
Vicky Amato	24	\$3,247
Ari Porter	34	\$2,111
Paul Makarewicz	8	\$662
Heidi Orcutt-Gachiri	1	\$138
Kimberly Proa	4	\$320
Anne Russell	12	\$1,210
Jason Glenn	4	\$367
Tasha Martz	4	\$277
Expenses	-	\$40
NMGRT	-	\$217
<b>Task Subtotal</b>	<b>99</b>	<b>\$9,822</b>
<b>TASK: ASSIST CITY WITH NMDHSEM SUB-GRANT PHASE II</b>		
Cody Stropki	2	\$308
Coleman Burnett	4	\$551
Alex Simons	6	\$589
Anne Russell	6	\$605
Ari Porter	4	\$248
Expenses	-	-
NMGRT	-	\$118
<b>Task Subtotal</b>	<b>22</b>	<b>\$2,419</b>
<b>TOTAL PROJECT COST</b>	<b>976</b>	<b>\$97,250</b>