



GRANT AGREEMENT
 between
 CITY OF MISSOULA
 and the
 MONTANA DEPARTMENT OF
 NATURAL RESOURCES AND CONSERVATION

Grant Agreement Number:	ACT-24-004B		
Maximum Award Amount Available:	\$ 150,000.00		
Source of Funds:	State of Montana Fire Suppression Fund		
DNRC Funding Information			
Org:	51330		
Fund:	02847		
Subclass:	555R0		
Expiration:	See Section 2.1, Period of Performance		
Approvals			
Drafter	Program	Fiscal	Legal
KM	AJ	LP	MP

GRANTEE

Name:	City of Missoula
Federal Tax ID #:	81-6001293
UEI:	NBMKDLVHBMF1
Address:	435 Ryman St
City, State, Zip+4:	Missoula, MT 59802-4297

This Grant Agreement, hereinafter referred to as “Grant”, is accepted by City of Missoula, hereinafter referred to as the “Grantee”, according to the following terms and conditions. The purpose of this Grant is to establish mutually agreeable terms and conditions, specifications, and requirements to grant funds to the Grantee.

SECTION 1. PROGRAM PROVISIONS

This Grant is offered by the Montana Forest Action Plan Program of the Montana Department of Natural Resources and Conservation, Forestry and Trust Lands Division, hereinafter referred to as “DNRC”, consistent with the policies, procedures, objectives, and intent of the State of Montana, DNRC, and the legislative appropriation.

SECTION 2. PROJECT TERMS

Project Name: Mt. Jumbo and Marshall Grade Forestry Project

2.1 PERIOD OF PERFORMANCE. This Grant is effective on the Start Date. The Grantee shall have until the Termination Date to complete the project and work described in Section 2.3, Project Scope.

Start Date:	Date of Last Signature
Termination Date:	April 30, 2026

2.2 AGREEMENT EXTENSION. This Grant may, upon mutual written agreement between the parties, be extended.

The DNRC may allow an extension for completion upon request and showing of good cause by the Grantee. Good cause is defined as external factors preventing the Grantee from completing the work, including, but not limited to, pandemic, wildland fire, forest closure, extensive and prolonged inoperable weather conditions, the assignment of project equipment and/or crew to the suppression of a wildland fire, or variations in project scope and/or landowner participation.

A request for an extension should be submitted in writing no less than thirty (30) days prior to the Termination Date if an extension is to be considered by the DNRC. Any extension will require mutual written agreement between the Grantee and the DNRC in the form of an Amendment as provided for below in Section 4.7, Assignment and Amendment.

2.3 PROJECT SCOPE. (a.) Supporting Documents/attachments. The Approved Project Proposal for this Grant to the Grantee is attached as Appendix A, which is incorporated herein by reference. Appendix A describes the specific project activities allowed under this Grant for completion in the Mt. Jumbo and Marshall Canyon area in Missoula, Montana. The Summary of Work Statement attached as Appendix E, which is incorporated herein by reference, describes the planned outcomes and implementation standards of the projects conducted under this Grant.

(b.) The Grantee must use the proceeds provided pursuant to this Grant to perform allowable activities identified in the Approved Project Proposal.

The key outcome of the Mt. Jumbo and Marshall Grade Forestry project is completion of fuel reduction treatment on 135 acres of City of Missoula Conservation Lands within the project area. Treatment prescriptions will differ across three treatment areas within the project scope: 1) Mt. Jumbo Wildlife North Zone (53 acres), 2) Marshall Grade – Wildlife Habitat and Rx Fire preparation (62 acres), 3) 50ft Trail Buffer Zone (20 acres).

1) Mt. Jumbo Wildlife North Zone is managed for critical elk winter range and is seasonally closed to protect wintering wildlife. Treatment prescriptions for this area will include:

- ***Remove all Douglas-fir trees that are 10" DBH and less. Remove all Ponderosa pine trees 8" DBH and less. Retention of juvenile pines within existing canopy gaps is allowed.***
- ***Random variable spacing for leave trees with an average of 30-foot crown spacing and minimum of 20-foot crown spacing.***
- ***Variable density thinning can occur allowing <1/4-acre clumps of retained trees surrounded by 40' crown spacing around clumps.***
- ***Variable height pruning up to 8 ft, making sure to retain cover for wildlife when possible.***

- *Legacy type trees should be retained unless disease or insects are evident.*
- *Retain all snags > 10" dbh unless the pose a safety hazard.*
- *Remove any trees exhibiting insect or disease mortality.*
- *Leave trees should be of good form and have a single terminal leader and free of obvious insect or disease.*

2) Marshall Grade – Wildlife Habitat and Rx Fire preparation zone management goals include restoring forest stand structure, promote wildlife habitat quality (flamulated owl), and preparing the site for future use of prescribed burning. Treatment prescriptions for this area will include:

- *Remove all Douglas-fir and Ponderosa Pine trees that are 10" DBH and less.*
- *Create a minimum 30-foot crown spacing between leave trees.*
- *Leave trees will be 10-inch DBH and greater.*
- *Leave trees should be of good form and have a single terminal leader and free of obvious insect or disease.*
- *Variable density thinning can occur allowing <1/10-acre clumps of retained trees surrounded by 40' crown spacing around clumps.*
- *Legacy type trees may be left and should not be more than a few of the total trees left.*
- *Remove all understory brush and ladder fuels and establish 10 feet of vertical spacing between understory fuels and lower branches of conifer trees.*
- *Retain all snags > 10" dbh unless the pose a safety hazard.*
- *Remove any trees exhibiting insect or disease mortality.*

Treatment work completed in Trail Buffer Zone area is provided as match toward the Mt. Jumbo and Marshall Grade Forestry project accomplishments.

3) 50ft Trail Buffer Zone represents an area managed for public access. Management goals in this area are to reduce fuels and the potential for an ignition to spread from a trail, while limiting off-trail travel by retaining trees to manage sight-lines.

Treatment prescriptions for this area will include:

- *Removal of most small diameter trees, with retention of 8" DBH trees and above.*
- *Variable height pruning up to 8' to reduce ladder fuels, maintaining existing viewsheds where possible.*
- *Create a minimum 20-foot crown spacing between leave trees, unless otherwise needed to limit off-trail travel and impacts to viewsheds.*
- *Allow <1/10-acre clumps of retained trees surrounded by minimum 20' crown spacing around clumps to limit off-trail travel and impacts to viewsheds.*

No individual project shall receive subaward funding in excess of \$1,850/acre without prior written approval of the DNRC liaison.

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2.4 PROJECT BUDGET. The Grant budget period runs concurrently with the Period of Performance. Grant funds are allocated to the following budget categories:

Project Funding Summary:	
Direct Costs	
Grantee salary/wages/benefits	\$48,000
Operating Expenses	\$2,000
Payments to Landowners (Beneficiaries)	\$0
Contracted Services	\$100,000
Subtotal – Direct Costs	\$150,000
Indirect Costs (waived)	\$0
Total Grant Amount	\$150,000
Match Required (4:1)	\$37,500
Total Project Funding:	\$187,500

Total payment for all purposes under this Grant shall not exceed One Hundred Fifty Thousand and no/100 Dollars (\$150,000.00).

This Grant requires a match of 4:1. For every \$4 of grant funds issued under this Grant, the Grantee or its project partners must provide \$1 in additional funds. No federal funds or state funds issued under another DNRC award may be used to satisfy the match requirement of this Grant.

Match will be met in the categories of Grantee Salary, Wages and Benefits and Contracted Services. in the form of cash contribution or in-kind services related to the project. Claimed match must be sufficiently documented to show compliance with requirements and to demonstrate how it supports the Grant project. The DNRC will determine whether match documentation submitted is adequate and may require additional documentation before approval.

The Grantee may transfer up to ten percent (10%) of the Total Grant Amount between Direct Costs budget categories as needed to complete the project. The Grantee must notify the DNRC of such transfers. Transfers between budget categories in excess of ten percent (10%) of the Grant amount must be requested by the Grantee, approved by the DNRC, and documented in an amendment to the Grant.

The indirect cost rate is shown above, expressed as a percentage of indirect costs to direct costs. Unless the rate has been formalized in a Negotiated Indirect Cost Rate Agreement (NICRA) between the Grantee and its cognizant federal agency, the rate shown above is hereby approved by the DNRC for the term of this Grant and may not be changed except via written amendment.

Approved travel expenses will be reimbursed at state rates and in accordance with state travel policy for Employee Travel at the time travel occurs. Any travel expenses incurred above state rates or outside of policy will be the sole responsibility of the Grantee. The Montana Department of Administration maintains current state travel policy on the webpage: <https://doa.mt.gov/employee-travel>.

Revenue, defined here as gross income earned through project activities minus costs borne by the Grantee to earn the income, such as the sale of harvested timber, must be declared to the DNRC prior to the request of the final disbursement of funds. If the DNRC determines the revenue to be program income (PI), the DNRC will direct the Grantee to handle PI in one or more of the following ways. (a) The PI may be incorporated into the project and used to meet a matching requirement of the Grant; the amount of the grant funds awarded remains the same. (b) The PI may be incorporated into the project and used to increase the scope and/or scale of work completed. Increase in completed activities as described in Section 2.3, Project Scope will be commensurate with value of PI; the amount of the grant funds awarded remains the same. (c) The PI may be retained by the Grantee, and the value deducted from total allowable costs to determine the net allowable costs available under the Grant; the amount of the grant funds awarded will decrease at 1:1. (d) The PI may be handled by the Grantee in a manner required by state statute, rule, or regulation.

When procuring goods or services under the Grant, the Grantee shall follow all applicable procurement procedures as required by the Grantee Organization's internal written policies. At a minimum, procurement procedures must ensure that the Grantee 1) avoids unnecessary or duplicative purchases, 2) conducts some form of cost/price analysis for every procurement transaction, 3) encourages open competition among vendors, and 4) avoid conflicts of interest in procurement decisions. In the absence of internal written policies, the Grantee shall seek guidance on procurement procedures from the DNRC Program Representative.

2.5 DISBURSEMENTS. The Grantee shall submit claims for disbursement of Grant funds using the "Request for Disbursement of DNRC Grant Funds / Financial Status Report" (Request) form, attached hereto as Appendix D and incorporated herein by reference. Documentation of reimbursable costs incurred and paid must be submitted with the request. Documentation may include, but is not limited to, itemized receipts, vendor invoices, inspection certificates, transaction ledgers or other financial reports that clearly show expenditures, payroll records, copies of checks, bank statements, and other forms of proof of payment. The DNRC will determine whether documentation submitted adequately supports the disbursement request and may require additional documentation before approving payment. Reimbursement of the Grantee's expenditures will only be made for expenses included in the Approved Project Proposal, that are clearly and accurately supported by the Grantee's records.

The Grantee may request an advance on available funds. In order to be eligible to receive an advance payment, the Grantee must maintain written procedures that minimize the time elapsing between the transfer of funds and their disbursement. The timing and amount of advance payments must be as close as is administratively feasible to the actual disbursements of funds by the Grantee. The request for an advance of funds must indicate how the Grantee intends to spend the funds.

After advanced funds are disbursed by the Grantee (i.e., anticipated expenses are actually paid), the Grantee must submit documentation to the DNRC within 30 days demonstrating proof of payment, identical to that required for reimbursements above. If the Grantee receives an advance payment, and the Grantee subsequently requests a reimbursement payment, the Grantee must clearly demonstrate how the advanced funds were spent before the DNRC will approve the Grantee's request for reimbursement of additional expenses. Any funds advanced, but not spent, or whose expenditure is not adequately documented, must be returned to the DNRC upon demand.

The Grantee should seek timely reimbursement of claimed costs incurred under this Grant. A minimum of one Request must be submitted annually to the DNRC. The annual period begins on the Grant effective date. In the event no reimbursable costs are incurred in an annual period, a Request for zero dollars (\$0.00) listing current Grant balances should be submitted to the DNRC. Request for final disbursement of Grant funds is due no later than 30 days following the Grant termination date.

The DNRC may withhold up to ten percent (10%) of the total authorized Grant amount until both the project tasks (outlined in Section 2.3 and Appendix A) and the Final Report (required by Section 2.6) are completed by the Grantee and approved by the DNRC.

2.6 REPORTS. The Grantee shall immediately notify the DNRC of developments that significantly impact the activities supported under this Grant. Notification must be given in the case of problems, delays, or adverse conditions that materially impair the ability of the Grantee to meet the objectives of the Grant. The notification must include a statement on action taken or contemplated, and any assistance needed to resolve the situation including requests for scope and/or timeline modifications as provided for below in Section 4.7, Assignment and Amendment.

An annual progress report for the period ending each December 31 shall be submitted to the DNRC during the Period of Performance of the Grant. Reports will provide status information for each project implementation objective. Status information will include, at a minimum, the percentage complete, work accomplished, site visits from DNRC staff, and active project members. A worksheet for annual report content development is attached hereto as Appendix B and incorporated herein by reference.

Annual reports must be submitted to the DNRC 31 days after the close of each calendar year. The first report is due on or before January 31, 2025.

The Grantee must keep geospatial project data and attributes current in the DNRC Stewardship Mapping Application during the period of performance of this Grant. Currency is defined as submitting project data for each property within 30 days of a project change event. Change events include, but are not limited to, identification of a project area for funding (Planned), treatment commencement (In Progress), and project completion (Completed). If the required method of submission changes during the Period of Performance of the Grant, the DNRC will provide thirty (30) days' notice in writing.

A Final Report that details the project status, results, accomplishments, and financial status will be submitted to the DNRC by the Grantee for approval upon project completion. Final reports are due no later than 30 days following the Grant termination date. At the time of submission of the Final Report, all spatial data must be finalized in the Stewardship Mapping Application.

A Final Report that details the project status, results, accomplishments, and financial status will be submitted to the DNRC by the Grantee for approval upon project completion. Final reports are due no later than 30 days following the Grant termination date.

Final disbursement of Grant funds is contingent upon the DNRC's receipt and approval of the Final Report. A worksheet for Final Report content development is attached hereto as Appendix C and incorporated herein by reference.

2.7 METHOD OF SUBMISSION. Entry in the Submittable Grant Management System (GMS) is the required method to submit: all claims for disbursement of Grant funds as described in

Section 2.5 Disbursements; and all reports as described in Section 2.6 Reports. The DNRC will provide links to forms within the GMS to complete these processes during the Period of Performance. The DNRC is not responsible for the receipt and processing of reports or disbursement requests submitted via an alternative method. If the required method of submission changes during the Period of Performance of the Grant, the DNRC will provide thirty (30) days' notice in writing.

SECTION 3. INSURANCE TERMS

3.1 WORKER'S COMPENSATION. The Grantee, its employees and contractors, are not covered by the DNRC's Workers' Compensation Insurance. The Grantee is responsible for making sure that it and its employees are covered by Workers' Compensation Insurance and that its contractors are in compliance with the coverage provisions of the Workers' Compensation Act.

3.2 INDEMNITY AND LIABILITY (HOLD HARMLESS / INDEMNIFICATION). Subrecipient agrees to be financially responsible for any audit exception or other financial loss to the DNRC and the State of Montana which occurs due to the negligence, intentional acts, or failure by Subrecipient and/or its agents, employees, subcontractors, or representatives to comply with the terms of this Subaward.

Subrecipient hereby agrees to defend, indemnify, and hold harmless the DNRC and the State of Montana and its agents from and against any and all claims, demands, or actions for damages to property or injury to persons or other damage to persons or entities arising out of, or resulting from the performance of this Subaward or the results of this Subaward, provided such damage to property or injury to persons is due to the negligent act or omission, recklessness, or intentional misconduct of Subrecipient or any of its employees and agents. This Subaward is not intended to relieve a liable party of financial or legal responsibility.

3.3 INSURANCE REQUIREMENTS. General Requirements. The Subrecipient shall maintain for the duration of this Subaward, at its cost and expense, liability insurance against claims for injuries to persons or damages to property-which may arise from or in connection with the performance of the work by the Subrecipient, agents, employees, representatives, assigns, or subcontractors. This insurance shall cover such claims as may be caused by any negligent act or omission of the Subrecipient or its officers, agents, representatives, assigns or subcontractors.

Specific Requirements for General Liability. The Subrecipient shall purchase and maintain occurrence coverage with minimum combined single limits for bodily injury, personal injury, and property damage of \$1,000,000 per occurrence and \$2,000,000 aggregate per year, or as established by statutory tort limits of \$750,000 per claim and \$1,500,000 per occurrence as provided by a self-insurance pool insuring counties, cities, or towns, as authorized under Section 2-9-211, MCA.

SECTION 4. DNRC GENERAL TERMS AND CONDITIONS

4.1 DNRC's ROLE. The DNRC will monitor project expenditures for payment eligibility. The DNRC assumes no responsibility for the Grantee's obligation to faithfully perform the tasks and

activities required by this Grant. The DNRC assumes no responsibility for verifying the right of the Grantee to conduct project activities on properties included in the Grant project. The Grantee is responsible for obtaining all appropriate permissions to conduct activities. In the event content in the approved project proposal differs from or conflicts with terms presented elsewhere in the Grant, the Grant text takes precedence.

The Grantee may contact the DNRC's Program Representative, identified in Section 5. Principal Contacts and Authorizations, for guidance related to administration of the terms of this Grant.

The Grantee may contact the Technical Specialist if one is listed in Section 5. Principal Contacts and Authorizations, for assistance with project execution. The roles and responsibilities of the technical specialist include but are not limited to, providing technical assistance to the Grantee to achieve intended outcomes of the project; conducting reviews of project plans, activities, and accomplishments upon request of the Grantee or as often as deemed necessary by the DNRC; and assisting the Grantee in complying with Montana's Forest Practices Laws and voluntary Best Management Practices in the course of carrying out project activities. If no Technical Specialist is listed, the Grantee may contact the Program Representative to provide these services.

4.2. AVAILABILITY OF GRANT FUNDS. The Grantee acknowledges and understands that Grant funds become available based on State of Montana legislative appropriations to the DNRC. Costs incurred by the Grantee or any beneficiary prior to this Grant are not eligible for reimbursement but may be counted as match funds upon prior written approval by the DNRC.

The commitment by the DNRC to expend money is contingent upon the DNRC receiving funds under the state appropriation. No liability shall accrue to the DNRC or its officials in the event such funds are not appropriated or allotted as authorized under legislation. The DNRC may, at its sole discretion, issue a temporary stop-work order, reduce the scope of project activities, or terminate this Grant if appropriated funding is reduced or unavailable for any reason. The DNRC will provide the Grantee at least 10 days' notice for a stop-work order and at least 30 days' notice if a reduction in scope or termination is determined to be necessary due to the unavailability of funds. Until the DNRC notifies the Grantee that obligated funds are unavailable, the DNRC will continue to comply with the terms of this Grant, including the disbursement of funds for eligible expenses incurred by the Grantee up to the specified date and time provided in a written notice.

4.3 RECORDS AND AUDITS. The Grantee must maintain appropriate and adequate records showing complete entries of all receipts, disbursements, and other transactions relating to this Grant for five (5) years after the later of either the final Grant payment or the termination of this Grant. The DNRC, the Montana Legislative Audit Division, or the Montana Legislative Fiscal Division may, at any reasonable time, audit all records, reports, and other documents that the Grantee maintains under or during the course of this Grant to ensure compliance with all terms and conditions of the Grant.

During the period of performance and extending after this Grant is terminated and closed, the DNRC reserves the right to disallow and recover an appropriate amount after fully considering any recommended disallowances resulting from an audit or other review.

4.4 PROJECT MONITORING AND ACCESS FOR INSPECTION AND MONITORING. The DNRC or its agents may monitor and inspect all phases and aspects of the Grantee's performance to determine compliance with this Grant, including but not limited to the adequacy of records and accounts, project progress and accomplishments, and adherence to any project

specifications. Inspections shall occur as often as deemed necessary by the DNRC. Inspections may be required to certify work completed by the Grantee before disbursement is made by the DNRC. The Grantee shall accommodate requests for the DNRC access to sites and records with due consideration for safety, private property rights, and convenience of everyone involved. Inadequate accommodation of requests, as determined by the DNRC, may be viewed as a failure to comply as outlined in Section 4.10, Failure to Comply.

4.5 EMPLOYMENT STATUS. The DNRC is not an owner or general contractor for the project. The DNRC does not control the work activities or worksite of the Grantee or any contractors that might be engaged by the Grantee for completion of the project. The Grantee is independent from and is not an employee, officer, or agent of the DNRC. The Grantee shall ensure that all its employees complete the I-9 form to certify they are eligible for lawful employment under the Immigration and Nationality Act (8 U.S.C. 1324(a)). The Grantee shall comply with regulations regarding certification and retention of the completed forms.

4.6 COPYRIGHTING AND GOVERNMENT RIGHT TO USE. The Grantee is granted sole and exclusive right to copyright any publications developed with funding provided under this Grant. The State of Montana reserves a royalty-free, nonexclusive, and irrevocable right to reproduce, publish, or otherwise use, and to authorize others to use the work for government purposes. This provision includes any right of copyright to which the Grantee purchases ownership with any Grant contributions. No original text or graphics produced by the State of Montana shall be copyrighted. The Grantee must notify the DNRC in writing when any patent rights arise from or are purchased with funds awarded under this Grant.

4.7 ASSIGNMENT AND AMENDMENT. The Grantee may not assign or transfer any portion of this Grant without the DNRC's express written consent. Amendments will be in writing, signed by both parties, and attached as an integral component of this Grant. This Grant may be terminated by the mutual written consent of both parties. If this Grant is terminated, the Grantee may not submit claims for reimbursement for costs incurred beyond the mutually agreed termination date.

4.8 COMPLIANCE WITH APPLICABLE LAWS. All work performed under this Grant must fully comply with all applicable federal, state, and local laws, rules, and regulations, including but not limited to, the Montana Human Rights Act, the Civil Rights Act of 1964, the Age Discrimination Act of 1975, the Americans with Disabilities Act of 1990, and Section 504 of the Rehabilitation Act of 1973. Any subletting or subcontracting by the Grantee subjects subcontractors to the same provision. In accordance with 49-3-207, MCA, the Grantee agrees that the hiring of persons to perform this Grant will be made on the basis of merit and qualifications and without discrimination based upon race, color, religion, creed, political ideas, sex, age, marital status, physical or mental disability, or national origin of the persons performing this Grant. Procurement of labor, services, supplies, materials and equipment shall be conducted according to applicable federal, state, and local statutes. It shall be the Grantee's responsibility to obtain all permits, licenses, or authorizations that might be required from government authorities for completion of the project. The DNRC's signature on this Grant does not guarantee the approval or issuance of any permits, licenses, or any other form of authorization to take action for which the Grantee must apply with the DNRC or any other government entity and submit to the DNRC to fulfill the terms of this Grant.

4.9 AGENCY RECOGNITION REQUIREMENTS. (a.) Use of Agency Insignia. The Grantee shall request in writing and receive written permission from the DNRC before using the DNRC

insignia on any published media, such as a webpage, printed publication, or audiovisual production.

(b.) Public Notices. The Grantee is encouraged to give public notice of the receipt of this award of State of Montana grant funds and, from time to time, to announce progress and accomplishments. Press releases or other public notices should include a statement substantially as follows: "The funding for this project is derived in full or in part from an award of State of Montana funds through the Montana Department of Natural Resources and Conservation, Forestry and Trust Lands Division."

(c.) Acknowledgment in Publications, Audiovisuals, and Electronic Media. The Grantee shall acknowledge DNRC support as appropriate in any publications, audiovisuals, and electronic media developed as a result of this award of State of Montana grant funds.

4.10 FAILURE TO COMPLY. If the Grantee fails to comply with the terms and conditions of this Grant, the DNRC may terminate this Grant and/or refuse additional disbursements of Grant funds and/or take legal action to recover disbursed Grant funds. Such termination will become a consideration in the DNRC's evaluation of future applications for grants under the authority of the DNRC Forestry and Trust Lands Division.

4.11 MONTANA LAW AND VENUE. Any action or judicial proceeding for enforcement of the terms of this Grant shall be instituted only in the courts of Montana and shall be governed by the laws of Montana. Venue shall be in the First Judicial District, Lewis and Clark County, Montana.

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SECTION 5. PRINCIPAL CONTACTS AND AUTHORIZATIONS

5.1 PRINCIPAL CONTACTS. Individuals listed below are authorized to act in their respective areas for matters related to this Grant. All correspondence or requests for information and assistance shall be submitted to the appropriate listed individual.

DNRC Program Representative	Grantee Representative
Name: Ashley Juran Title: Stewardship Program Specialist Address: 2705 Spurgin Road City, State, Zip: Missoula, MT 59804 Telephone: 406-542-4280 Email: Ashley.Juran@mt.gov	Name: Andrea Davis Title: Mayor Address: 435 Ryman St City, State, Zip: Missoula, MT 59802-4216 Telephone: 406-552-6001 Email: davis@ci.missoula.mt.us

DNRC Technical Specialist	Grantee Project Manager
Name: Bill Burdick Title: Forester Address: 3206 Maverick Lane City, State, Zip: Missoula, MT 59804 Telephone: 406-542-4313 Email: bburdick@mt.gov	Name: Jeff Gicklhorn Title: Conservation Lands Program Manager Address: 435 Ryman St City, State, Zip: Missoula, MT 59802-4216 Telephone: 406-552-6691 Email: GicklhornJ@ci.missoula.mt.us

DNRC Administrative & Fiscal	Grantee Administrative & Fiscal
Name: Lorie Palm Title: Grants and Agreements Specialist Address: 2705 Spurgin Road City, State, Zip: Missoula, MT 59804 Telephone: 406-542-4205 Email: lpalm@mt.gov	Name: Betsy Willett Title: Senior Administrative Manager Address: 435 Ryman St City, State, Zip: Missoula, MT 59802-4216 Telephone: 406-552-6258 Email: willettb@ci.missoula.mt.us

5.2 AUTHORIZATION. This Grant consists of pages 1 – 12, plus the following appendices:

- Appendix A [Approved Project Proposal]
- Appendix B [Annual Report Worksheet]
- Appendix C [Final Report Worksheet]
- Appendix D [Request for Disbursement Form]
- Appendix E [Summary of Work].

The Grantee hereby accepts this Grant according to the above terms and conditions.

Through signature, each party certifies that the individuals listed in this Grant as representatives of the parties are authorized to act in their respective areas for matters related to this Grant. In witness whereof, the parties hereto execute this Grant.

_____ By: _____
Date Grantee Authorized Representative

Andrea Davis, Mayor
Printed Name _____

_____ By: _____
Date DNRC Authorized Representative

Printed Name

_____ By: _____
Date Amanda Kaster – Director, DNRC

Remainder of page for GRANTEE USE ONLY: Additional Signatures as Required
The DNRC does not require additional signatures and takes no role in evaluation of any inclusion or omission.

Forestry - MFAP Full Application FY24

11/17/2023

Score n/a

Congratulations, your pre-proposal has been selected to move forward as a full application. Strong applications will involve multiple collaborating partners, engaged in cross-boundary management to address at least one of the following through forest management and conservation actions: forest health; wildfire risk; working forests and economies; biodiversity and habitat; human and community health; urban and community forests. Additionally, projects should be implementation-ready and have a completion timeline not to exceed 24 months. The full application worksheet is available here. New Process for Multi-Party Applications: Each cooperator will have received a link to the proposal application that needs to be completed and reflect information notating its relationship to the entire multi-party project. Each cooperator will fill out the application conveying only their area of the project unless DNRC requested otherwise. Match Requirements & Reimbursement: There is a 4:1 match ratio (grant : match) requirement for all projects. Grants will be reimbursement based. Timeline: November: Review, scoring, and selections will be completed. Successful applicants will be notified in winter 2023. Spring 2024: funded projects should plan to begin work.

1. Applicant Information

1.1. Your Name: Jeff Gicklhorn

1.2. Your Phone Number: +14065525460

1.3. Type of Organization: City

1.4. Organization Name: City of Missoula

1.5. Have you or your organization previously received grant funds directly from DNRC Forestry? Yes

1.6. Please specify your role in this project: I am applying as a multi-party project, AND I am completing this application as a PARTNER.

2. Project Information If you are applying as a multi-party project, please only provide the details for YOUR portion of the project.

2.1. Project Name: Missoula County Office of Emergency Management - City of Missoula - Mt. Jumbo & Marshall Grade Forestry Work

2.2. Project Location Mt. Jumbo and Marshall Canyon, Missoula County
 (Community, County, AND Legal S07, T13 N, R18 W, C.O.S. 6211, PARCEL 1, ACRES 220.7
 Description). S12, T13 N, R19 W, ACRES 504.77, SECTION 12 LESS PARTS SOLD

2.3. Type of land ownership where YOUR project will take place: Municipal

2.4. In 100 words or less, please complete the following statement and include measurable outcome of your project. "The purpose of this project is _____"

The purpose of this project is to complete a 237-acre coniferous forest thinning treatment on City of Missoula Conservation Lands on Mount Jumbo in Missoula, Montana. This biomass reduction work will reduce the risk of catastrophic wildfire, improve wildlife habitat, achieve a forest stand structure that can be effectively maintained by City program staff into the future, and build collaborative capacity for the future implementation of prescribed fire. These goals will be measured by the number of acres treated to treatment prescription specifications, and the number of acres that are prepared for a safe, effective prescribed burn program.

3. Project Budget This is the budget for YOUR portion of the project.

3.1. Please provide an estimated budget in relevant categories. Only complete the budget table for your portion of the project if a multi-party proposal.

[ACT24_BasicBudget.xlsx](#)

3.2. Total Funds Requested: 290000.0

3.3. Total Stated Match (4:1 required): 74500.0

	Funds Requested		Match (4:1 Required)	Total (Funds Requested + Match)
Personnel/Labor/Salary, Wages, & Benefits	\$48,000 \$50,000.00		\$40,000.00	\$90,000.00
Supplies/ Operating	\$2,000.00		\$10,000.00	\$12,000.00
Payments to Landowners				
Contractual	\$100,000 \$238,000.00		\$24,500.00	\$262,500.00
Indirect Costs				
TOTAL	\$150,000 \$290,000.00		\$74,500.00	\$364,500.00

Budget changes were created via conversations with Grantee and DNRC Program Specialist.

3.4. Please describe how the grant funds will be spent. Give specific details for each expenditure category in the budget table. Explain how grant dollars will be spent and how these expenditures tie directly to the project goals and objectives.

1. Personnel, Wages, and Salary

\$50,000 of grant funds will be used for City of Missoula Staff to prepare, thin, and burn the Mt. Jumbo North Zone Treatment Area (52 ac). These funds will allow for 4 staff season extensions in the Fall of 2024 and 2025 to complete project work including thinning and pile burning to meet specifications.

Match: Conservation Lands Program Manager, Program Specialist II, and Admin Specialist I will provide grant and contract administration, including bidding, flagging, inspections, reimbursement and payment processing, and impact monitoring. Conservation Lands Maintenance Staff will implement select thinning work (50ft trail buffer), and post-thinning conservation work, including seeding burn piles and select herbicide application. In-house work to assure that visual trail buffers are maintained and that invasive species do not increase as a function of the contracted forestry work will help maintain wildlife habitat quality and recreational user experience within the project area.

2. Supplies / Operating

\$2,000 of grant funds will be used for supplies and operating costs for in-house forestry work. This will include the purchase of a new chainsaw (\$700) as well as consumable equipment needs (e.g. chainsaw chains, fuel, oil, etc.). This will allow staff to operate effectively and efficiently to complete the work.

Match: City of Missoula will provide all vehicles and equipment required to administer the grant, subsequent forestry contracts, complete all planned in-house work. City of Missoula will also provide all supplies for follow-up work after thinning treatments are completed, including restoration seed for burn piles, and herbicide for select application across the project area.

3. Payments to Landowners

None.

4. Contractual

\$238,000 of grant funds will be used to hire contracted services to implement forest treatments.

Match: City of Missoula will provide \$24,500 in cash match for contracted services.

5. Indirect Costs

None.

4. Forest Action Plan Project Integration

4.1. Please describe how your project supports the

This project supports goals within five of the Montana Forest Action Plan topic areas, and a brief explanation of how each of these topic areas and which respective goals are discussed below. The entirety of this project

implementation of the Montana Forest Action Plan. area falls within the 8,032 acre MTFAP Priority Area that includes the upper Rattlesnake Valley and Marshall Canyon.

1. Forest Health: This project increases forest resilience by treating an area that was previously commercial logged, improves watershed conditions by treating areas adjacent to Marshall Creek, and works cross-boundary with adjacent state and federal partners to both tie into recently completed work and utilize prescribed fire via a 2021 interagency cooperative agreement with FWP and the USFS.

2. Wildfire Risk: This project reduces wildfire risk to Missoula and adjacent communities by treating lands that are entirely within the mapped Missoula County WUI Intermix zone in Marshall Canyon and on Mt. Jumbo. Additionally, the project area directly abuts five private parcels and large acreage recently treated by FWP and USFS. These treatments will prepare the majority of the project area for the future use of prescribed fire through the cooperative agreement mentioned above.

3. Working Forests and Economies: This project seeks to maintain working forests and economies for managing the project area for multiple benefits, including production of forest products, public access to recreation opportunities, watershed health, and wildlife habitat restoration. While this project is not designed as a commercial thinning project, we do anticipate a smaller commercial component due to the forecasted prescriptions. The City of Missoula frequently contracts with local forestry contractors on similar projects and would anticipate doing so for this project.

4. Biodiversity and Habitat Conservation: This project conserves and restores wildlife habitat for a number of key wildlife species within and directly adjacent to the project area. Mt. Jumbo proper is managed for wintering elk through intentional forest management and a seasonal recreation closure. Marshall Creek has genetically pure west-slope cutthroat trout that are impacted by upslope forest health. Flamulated owls are known to nest on the west slopes of Marshall Canyon. The three different proposed treatment areas take these and other species into account by prioritizing wildlife habitat improvements along with addressing fire risk and fuels reduction.

5. Human and Community Health: This project prioritizes watershed health, including retaining riparian buffer zones around Marshall Creek and small drainages that run through the project area. The area sees high use for recreation and lies adjacent to many other recreation opportunities on FWP and USFS lands, as well as Marshall Mountain Park. Maintaining road buffers allows for the maintenance of visual aesthetics and limits the likelihood of users leaving established trails and causing natural resource damage after treatments are completed. We plan to educate the public about the value and impact of planned prescribed burn operations within the project area.

Sustaining Cross-Boundary Work: Planned prescribed fire efforts will be implemented at no cost through the Wyden Authority via a cooperative agreement with FWP and USFS after thinning work is completed.

5. Description, Sustainability & Timeline

5.1. Project Description:

Changes to project treatment scope and acreage are reflected in Appendix E and section 2.3 of the agreement due to reduced project funding.

This project will treat 237 acres of forested land on City of Missoula lands on Mt. Jumbo and in Marshall Canyon. The project area is composed of 12 Forest Management Units grouped into three Treatment Areas. Management priorities and treatment prescriptions vary across Treatment Areas but will be consistent across all Units within each Area. Existing road and trails will be buffered and treated separately from adjacent Units.

The City purchased Mt. Jumbo in 1997 for community-based conservation, specifically targeting protecting critical elk winter range and recreation. This area was previously privately ranched and to our knowledge never commercially logged. Prior to private property ownership, native tribes (Salish) traveled across Mt. Jumbo and culturally managed the area through regular burning. Shallower topography with varying forest from pine-dominated stands on southeasterly slopes to fir-dominated stands on easterly slopes. This area is closed seasonally, from Dec 1 to May 1 to protect wintering elk, with limited maintenance access allowed.

The Marshall Grade parcel on Mt. Jumbo was previously owned by the Plum Creek Timber Company and managed for commercial timber production before the City acquired it in 2011 as part of Phase I of the Montana Legacy Project. Topography is steeper with multiple small drainages leading into Marshall Creek below. Composition ranges from pine-dominated stands to fir-dominated stands. As this area was previously commercially logged, many of the larger size class trees have been removed. This area is not closed seasonally, and work can occur throughout the year.

Portions of both parcels were initially treated in 2011 with DNRC funding, however very limited work has occurred since then and regeneration is prevalent. Additionally, units 19 and 20 were treated with DNRC funding in 2021 and are therefore not included in the scope of this grant. Three separate Treatment Areas have been developed for this project, each with differing management goals and prescriptions in mind, reflecting the values and resources present within each Unit:

'Mount Jumbo Wildlife North Zone' treatment area (52 ac) will prioritize winter elk habitat quality while reducing surface and ladder fuels. Crews will selectively hand-thin, with management goals of retaining mature pine and fir overstory, thinning understory regeneration and ladder fuels, and preparing for future trans-boundary prescribed fire.

'Marshall Grade – Wildlife Habitat and Rx Fire' treatment area (155 ac) prioritizes reducing overstory and understory fuels through mechanical and hand work and preparing for future trans-boundary prescribed fire with adjacent USFS lands. This area has been identified as core Flammulated Owl habitat, which will help inform final prescription.

'Marshall Grade – Riparian Forest' treatment area (51 ac) prioritizes reducing understory fuels within the riparian buffer zone using hand work and no planned prescribed fire. Only unit 21 (10 ac) will be treated within

project scope.

50-ft trail buffers (20 ac) in the project area prioritize maintaining visual buffers and limiting potential off-trail use.

Slash will be piled and burned or broadcast. Follow-up reentry maintenance work on all units will be completed by City staff or subsequent private contracts.

5.2. Project Sustainability:

This project will revisit an intensive treatment effort across 237 acres of Missoula's forested Conservation Lands that began in 2011, and prepare those areas for planned trans-boundary prescribed fire. Treatment prescriptions will establish a preferred forest stand structure for each treatment area and establish re-entry intervals required for ongoing forest management. Conservation Lands staff will maintain forest structure with re-entry work as required by species composition, aspect, and disturbance regime. Areas maintained with prescribed fire will have an approximately 15-20 year re-entry period, and units that will not be burned will have a hand-work re-entry planned for every 10 years.

This area is adjacent to both large, protected landscapes (USFS, FWP) and a network of private residences, presenting a high level of wildfire risk and susceptibility. As a dense forested area in the WUI, effective forest stand treatments in this area will help to mitigate wildfire risk by reducing the likelihood and intensity of forest fire events in an area with a high level of wildfire vulnerability. By investing in project follow-up work such as burn pile seeding and select weed spraying, this project will also allow for wildlife habitat and watershed health improvements.

5.3. Project Timeline:

If awarded, project work will begin Fall 2024 and will be completed by Spring 2026. Implementation timing across the Forest Management Units within this project area will vary slightly by treatment area.

The North Zone treatment area (Units 1, 2, 38) will be completed by City of Missoula Conservation Lands staff. As the work will be done in-house, project work can begin as soon as the award is granted. Conservation Lands staff will also selectively thin a 50-foot buffer along all road corridors in the project area, all thinning and pile burning work will be completed by Spring 2026.

The Marshall Grade Treatment areas (Units 13, 14, 15, 16, 17, 18, 21) will start with a site and bid tour in the early Spring of 2024. Thinning work will begin in these treatment areas once contracts have been awarded. Once work has begun, Conservation Lands staff will assess performance on a test plot to ensure contracted work meets the defined treatment prescriptions. The selected contract company will be required to complete all project requirements by Spring 2026. This will include all required site preparations, thinning, pile burning, and site cleanup.

Road buffer zones will be completed in summer 2024.

6. Collaboration & Cross-Boundary

6.1. Project Cross-Boundary Connection(s): This project is being submitted as a joint application with Missoula County to mitigate wildfire risk and improve forest health across a mosaic of private and public lands within a priority area identified by the Montana Forest Action Plan. If awarded, this project will fit into a larger effort to implement targeted forest management treatments for a “Wildfire Adapted Missoula”. This project area is a key component of Missoula’s forested Wildland-Urban Interface (WUI) and represents a significant opportunity to match forest management currently being implemented by neighboring landowners and agencies. The project area is immediately adjacent to the Lolo National Forests’ Marshall Woods Restoration Project (2017 - present), Montana Fish, Wildlife, and Parks’ Mount Jumbo Wildlife Management Area Forest Habitat Restoration Project (2020 – present), and private lands participating in the Missoula County Community Wildfire Protection Plan (2018 – present).

The forest stand treatments implemented by this project will allow the City of Missoula to participate in broader, cross-boundary forest management projects, including trans-boundary prescribed fire. This project area is a key component of a cooperative agreement between the City of Missoula, Montana Fish, Wildlife, and Parks and the U.S. Forest Service that allows for cross-boundary implementation of prescribed burns in the greater Mt. Jumbo – Marshall Canyon area. The implementation of this interagency cooperative agreement would advance future connections to a wide range of local land management agencies and individuals. Mount Jumbo would represent the first application of prescribed fire on Missoula’s Conservation Lands, which would provide experience and training for MCL staff and increase potential for a prescribed burn program (including the opportunity to leverage other existing grant opportunities) across the Conservation Lands System. By establishing a preferred forest stand structure and implementing planned prescribed fire, this project expands the restoration potential of existing cross-boundary collaborative management agreements.

7. Maps

7.1. Will your project physically alter the landscape? Yes

7.2. Upload a detailed project area map.

[CoM_Jumbo_MarshallGrade_MTFAP2023.pdf](#)

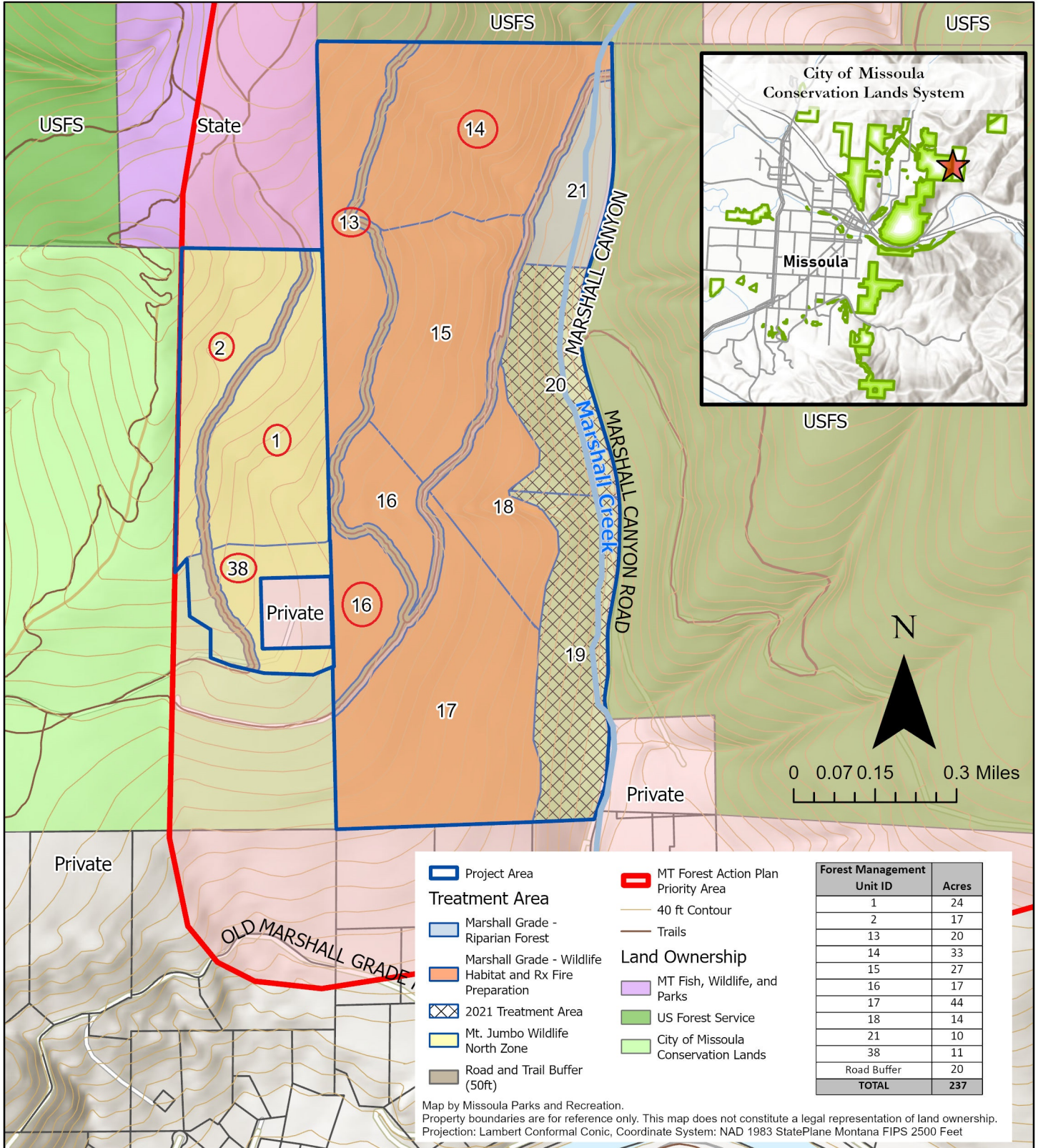
[Signed_USFS_Letter_of_Suppor.pdf](#)

8. Certification

8.1. Are you authorized to sign this application on behalf of the organization? Yes



City of Missoula Mount Jumbo - Marshall Grade Forest Treatment Areas MT Forest Action Plan Grant Proposal





United States
Department of
Agriculture

Forest
Service

Missoula Ranger
District
(406) 329-3814

Bldg. 24A Ft. Missoula Road
Missoula, MT 59804

File Code: *

Date: *11/13/2023

*Letter of Support

*To whom it may concern,

The Missoula Ranger District and the Missoula District Fire Program support the City of Missoula Parks & Recreation Department and the Missoula County Office of Emergency Management's plan to provide fuels mitigation work on lands adjacent to the Lolo National Forest. The proposed treatments include 240 acres in the Marshall Grade area on the eastern flank of Mt. Jumbo. This project will align with ongoing work on adjacent federal lands in the Missoula Ranger District's Marshall Woods Ecosystem Restoration Project (2016). These cross-boundary treatments will increase the effectiveness of fuels reduction efforts aimed at reducing wildfire hazard in and around the urban interface. These treatments create conditions that reduce wildfire risks to the community, increase forest resilience, and provide firefighters with increased probability of success during initial attack operations.

These lands have been identified as priority treatment areas through both the US Forest Service's 10-year Wildfire Crisis Implementation Plan and the Montana DNRC's Montana Forest Action Plan. Proposed treatments within these areas will fall into an existing three-party agreement for fuels reduction over a larger area, thus improving the overall effectiveness of the project. We fully support this joint effort by the Missoula Parks & Recreation Department and the Missoula County Office of Emergency Management and look forward to working with them on future projects across the landscape.

Respectfully,

Crystal Stonesifer
Missoula District Ranger
Lolo National Forest

Stryker Clark
District Assistant Fire Management Officer of Fuels
Missoula Ranger District
Lolo National Forest



8.2. By typing my name below as an electronic signature, I attest to having the authority to submit this application, and my organization has the institutional, managerial, and financial capacity to ensure proper planning, management, and completion of the project.

Forest Action Plan Annual Report Worksheet

1. Agreement #:
2. Annual performance reports are due January 31 reporting on the calendar year:
 - Year 1 (Start of Grant-December)
 - Year 2 (January-December)
3. Percentage of project completed:
4. Total project acres completed:
5. Summary of the work accomplished in the reporting period. (500 words max.)
6. Describe any monitoring site visits made by DNRC staff or their representative(s).
7. Identify the contractors who have actively worked on the project.
8. Approximate number of people who actively worked on the project.
9. Optional - Include up to 6 pictures of project activities. Before/after pictures are encouraged.
10. Optional - Additional information or comments.
11. Have there been any changes to the main point of contact? If so, please provide their name(s), email(s) and phone number(s).

Forest Action Plan Final Report Worksheet

Overview:

1. Agreement #:
2. Project Name:
3. Organization name:
4. Name, email, and telephone numbers of others who may be contacted concerning the project if the primary contacts are not available.
5. Total project costs:
6. Total grant funding:

Project:

7. Describe the project history, project location, and the purpose of the project.
8. Document that project goals, objectives, and tasks identified in the Agreement have been completed (see Sec. 4, Project Scope). Copy the project goals, objectives, and tasks verbatim and describe how they were completed. If any were not completed, explain why. It is very important that you provide evidence that the agreement was completed as agreed to in Section 4 of the Agreement, Project Scope.
9. Include an ArcGIS Shapefile(s) capturing activity polygons for all grant-related accomplishments. Projects 1 acre or greater must be represented as polygon features. Projects less than 1 acre may be represented as point features. Each record must include the following attribute data: grant number, completion date, landowner name, and acres treated. Geospatial data must be provided only for projects under the current grant; data including accomplishments under other grants will not be accepted. **OR** For users of the Stewardship Mapping Application, at the time of submission of this Final Report, all spatial data must be finalized in the Stewardship Mapping Application.
10. Summarize any problems encountered and solutions adopted. What would you do differently?

Landscape Benefits and the Forest Action Plan:

11. Describe the impact and benefits of this project at a broader landscape level. In what ways does this project have an impact beyond the immediate project area? Identify at least one primary goal and related strategy(ies) from the Montana Forest Action Plan that this project accomplishes.

Grant Administration & Project Costs:

12. Budget

Include a summary of how the monies were spent by budget category and source of funding. Was the project completed according to budget? Explain any cost overruns or savings. Discuss any unbudgeted expenses that arose over the course of the project.

13. Matching Funds

Please self-report the matching funds that were to be spent according to the Grant and Approved Project Proposal (Appendix A). Document that these funds were spent.

14. Optional - Upload additional documents/images that match the above narratives.

**Request for Disbursement of Grant/Subaward Funds
DNRC Financial Report**



Organization Name:

Agreement #:

 Request for Reimbursement or Request for Advance

Total Award Amount: \$

Funds Previously Requested: \$

Period Covered by this Request – From Date:

To Date:

Award Share – REQUEST this Period*DNRC validates category spending with each request. Overspending a category budget may delay payment.*

<u>Employee Time: salary/wages/benefits</u>	\$
Operating Expenses	\$
Payments to Landowners (Beneficiaries)	\$
Contracted Services (incl. Contractor Time)	\$
Subtotal – Direct Costs	\$
Indirect Costs	\$
Total Request Amount	\$

Recipient Share – MATCH this Period No Match Required

<u>Employee Time: salary/wages/benefits</u>	\$
Operating Expenses	\$
Landowner Contributions	\$
Contracted Services (incl. Contractor Time)	\$
Other (explain in Remarks section below)	\$
Total Match Amount	\$

Program Income Earned: \$

Award Balance after this Request: \$

Remarks:

Authorized Certifying Official: I certify to the best of my knowledge and belief that the information provided herein is true, complete, and accurate. I am aware that the provision of false, fictitious, or fraudulent information, or the omission of any material fact, may subject me to criminal, civil, or administrative consequences including, but not limited to violations of U.S. Code Title 18, Sections 2, 1001, 1343 and Title 31, Sections 3729-3730 and 3801-3812.

Name:

Title:

Email:

Signature:

Date:

Appendix E

Mt. Jumbo and Marshall Grade Forestry Project Summary of Work

Project Area: The project area is in Missoula County; including but not limited to the community of Missoula.

Key outcome of the agreement: Completion of a hazardous fuel mitigation projects on 135 acres of non-federal land within the project area.

Accomplishments:

PROJECT OUTCOMES			
Acres Treated:	135	*Average subaward treatment cost:	~\$1,350/acre
Property Assessments/Plans:	0	Educational Programs:	0

* If an individual project exceeds \$1,850/acre of subaward funding for a proposed treatment, the subrecipient will contact the DNRC liaison for prior approval. The intent of this requirement is to discuss the reasons for funding a project significantly more expensive than anticipated project costs and determine if the project fits the intent of the program.

Treatment Prescription:

Treatment prescriptions will differ across three treatment areas within the project scope: 1) Mt. Jumbo Wildlife North Zone (53 acres), 2) Marshall Grade – Wildlife Habitat and Rx Fire preparation (62 acres), 3) 50ft Trail Buffer Zone (20 acres).

1) Mt. Jumbo Wildlife North Zone is managed for critical elk winter range and is seasonally closed to protect wintering wildlife. Treatment prescriptions for this area will include:

- Remove all Douglas-fir trees that are 10" DBH and less. Remove all Ponderosa pine trees 8" DBH and less. Retention of juvenile pines within existing canopy gaps is allowed.
- Random variable spacing for leave trees with an average of 30-foot crown spacing and minimum of 20-foot crown spacing
- Variable density thinning can occur allowing <1/4-acre clumps of retained trees surrounded by 40' crown spacing around clumps.
- Variable height pruning up to 8 ft, making sure to retain cover for wildlife when possible.
- Legacy type trees should be retained unless disease or insects are evident.
- Retain all snags > 10" dbh unless the pose a safety hazard.
- Remove any trees exhibiting insect or disease mortality.
- Leave trees should be of good form and have a single terminal leader and free of obvious insect or disease.

Appendix E

2) Marshall Grade – Wildlife Habitat and Rx Fire preparation zone management goals include restoring forest stand structure, promote wildlife habitat quality (flamulated owl), and preparing the site for future use of prescribed burning. Treatment prescriptions for this area will include:

- Remove all Douglas-fir and Ponderosa Pine trees that are 10" DBH and less.
- Create a minimum 30-foot crown spacing between leave trees.
- Leave trees will be 10-inch DBH and greater.
- Leave trees should be of good form and have a single terminal leader and free of obvious insect or disease.
- Variable density thinning can occur allowing <1/10-acre clumps of retained trees surrounded by 40' crown spacing around clumps.
- Legacy type trees may be left and should not be more than a few of the total trees left.
- Remove all understory brush and ladder fuels and establish 10 feet of vertical spacing between understory fuels and lower branches of conifer trees.
- Retain all snags > 10" dbh unless the pose a safety hazard.
- Remove any trees exhibiting insect or disease mortality.

Treatment work completed in Trail Buffer Zone area is provided as match toward the Mt. Jumbo and Marshall Grade Forestry project accomplishments.

3) 50ft Trail Buffer Zone represents an area managed for public access. Management goals in this area are to reduce fuels and the potential for an ignition to spread from a trail, while limiting off-trail travel by retaining trees to manage sight-lines.

Treatment prescriptions for this area will include:

- Removal of most small diameter trees, with retention of 8" DBH trees and above.
- Variable height pruning up to 8' to reduce ladder fuels, maintaining existing viewsheds where possible.
- Create a minimum 20-foot crown spacing between leave trees, unless otherwise needed to limit off-trail travel and impacts to viewsheds.
- Allow <1/10-acre clumps of retained trees surrounded by minimum 20' crown spacing around clumps to limit off-trail travel and impacts to viewsheds.

Method of Implementation: Work will be completed by City of Missoula staff and contracted to competent service providers.

Match Funds Source: Match Required will be provided by City of Missoula Staff to provide grant and contract administration, including bidding, flagging, inspections, reimbursement and payment processing, and impact monitoring. Conservation Lands Maintenance Staff will implement select thinning work (50ft trail buffer zone), and post-thinning conservation work, including seeding burn piles and select herbicide application. In-house work to assure that visual trail buffers are maintained and that invasive species do not increase as a function of the contracted forestry work will help maintain wildlife habitat quality and recreational user experience within the project area. City will also cover additional cost for contracted forestry services beyond total available grant award.

Restrictions: No work on Federal land.

Appendix E

Project Monitoring: The DNRC technical specialist, or designee, will conduct periodic monitoring reviews of project plans, activities, and accomplishments, intended to occur annually. A summary of monitoring reviews should be described by Subrecipient in annual reports.