

Appendix A Monitoring

Introduction

The following monitoring matrix describes monitoring associated with the Cooney McKay Project and summarizes the purpose, methods, and expected results and uses of the proposed monitoring activities. The Forest Service is currently seeking opportunities for multi-party monitoring of post treatment conditions.

**TABLE A- 1.
SUMMARY OF MONITORING ACTIVITIES**

WHAT	WHERE	WHEN / DURATION	WHY	WHO	EXPECTED RESULTS AND USE
WILDLIFE					
Old Growth Monitoring	Old Growth Maintenance Units	Pre-treatment surveys and post-treatment surveys (1 st and 3 rd year).	To access if proposed treatments maintained certain old growth habitat structure (e.g. snags, down woody, large tree component).	District Wildlife Biologist will be responsible for the accomplishment.	The information will be used to gauge if maintenance treatment in old growth stands significantly affects the ability of the stand to provide old growth habitat to old growth associated species.
FOREST ROADS					
Monitor and oversee temporary road construction.	Temporary roads.	Throughout duration of project implementation.	Insure road construction activities comply with contract specifications.	Contracting Officer, Forest Service Representative, and Timber Sale Administrator.	Routinely determine compliance with contract specifications.
Monitor and oversee condition of permanent roads.	Permanent roads.	Throughout duration of project implementation.	Insure activities are not negatively affecting road condition and adjoining resources.	Contracting Officer, Engineering Representative, and Timber Sale Administrator	Routinely determine road integrity and BMP compliance.

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WHAT	WHERE	WHEN / DURATION	WHY	WHO	EXPECTED RESULTS AND USE
SOIL QUALITY					
Extent of detrimental effects.	Units 26-105, 30-56, 36-1, 36-2, and 8-7.	During and after implementation.	Determine if soil quality standards are met.	Forest Soil Scientist or his designated Representative	Ensure Design Criteria were implemented and determine if they are effective.
WATER RESOURCE					
Clear drainage features – through notes to the Sale Administrator.	Through activity area.	Continually	Prevent sediment transport	Sale Administrator	No negative effects on the water resource.
FISHERIES					
Validate the use of WEPP Modeling for Prescribed Burns and the impacts of the burns to fish spawning habitat. Dependent on sufficient funding and staffing.	Cooney Creek	Collect baseline data prior to implementation. Validate WEPP Modeling after first significant precipitation. Assess for fish habitat conditions annually for 2 years after project implementation.	To improve analysis of effects for similar future projects.	Fisheries Biologist and Soils Scientist	Determine validity of WEPP Model and projections of impacts to fish habitat.

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WHAT	WHERE	WHEN / DURATION	WHY	WHO	EXPECTED RESULTS AND USE
FOREST VEGETATION					
Review Contract prior to advertisement.	Swan Lake District Office	Prior to advertisement.	Insure contract complies with the NEPA Decision.	TMO/Presale Forester, IDT Members, Line Officer, Contracting Officer, Timber Sale Administrator, Engineering Representative	Assure project implementation complies with the NEPA Decision.
Monitor and oversee vegetation treatments (commercial and noncommercial).	All treatment units.	Throughout duration of project implementation.	Insure treatment activities comply with contract specifications.	Contracting Officer, Forest Service Representative, Timber Sale Administrator, and Harvest Inspector, Silviculturist	Assure compliance with contract specifications.
Conduct reforestation surveys to determine regeneration success.	All planting units.	First, third and fifth year after planting occurs.	Determine regeneration success	Silviculturist or designated Representative	Assure adequate stocking of preferred species occurs.
Conduct post treatment surveys. Monitor the changes in forest structure, composition, insect and disease conditions	All treatment units.	Immediately following treatment and periodically thereafter as specified in the silvicultural prescription.	Determine how well treatment objectives were met and to gather data as needed for possible follow-up treatments.	Silviculturist or designated Representative	Determine the effectiveness of the treatments. This information will be used in making future recommendations for similar fuel reduction projects.

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WHAT	WHERE	WHEN / DURATION	WHY	WHO	EXPECTED RESULTS AND USE
FUELS REDUCTION					
Conduct pre-treatment sampling prior to implementation.	Selected treatment units.	Prior to implementation	Establish existing conditions in proposed treatment units.	Fuels Manager or designated Representative	Establish baseline for fuels treatment proposals.
Conduct post treatment surveys. Monitor the reduction in fuel loads, including changes in canopy cover, structure, ladder fuels, and down woody material.	All treatment units.	First year after treatment; then every 10 years.	Determine how well treatment objectives were met and to gather data as needed for possible follow-up treatment.	Silviculturist and Fuels Manager or designated Representative.	Determine the effectiveness of the treatments. This information will be used in making future recommendations for similar fuel reduction projects.
INVASIVE PLANTS					
Monitor the presence and spread of noxious weeds.	All (ground disturbed areas) treatment units and lands affected by activities; slash pile burns; and all existing and temporary system roads used for the project.	Annually, starting at year 1 through 3 years following harvest / haul activities.	To determine the presence and/or spread of noxious weeds and needed containment or eradication measures, and to future direct treatment activities.	Botanist, Noxious Weed Specialist, or Weed Crew	Determine recovery rates of native plants in harvested units; determine if weed control measures should be considered.