


Northern Star Resources (Pogo) LLC Integrated Pest Management Plan

IPM Plan Effective Dates:	June 2024 through August 2024
Management Area Name/Location:	Pogo Mine Access Road
General Site Description:	Pogo Mine's access road located on state owned land/right of ways.
Land Uses:	Access road is utilized for transporting goods and services to Pogo Mine
Name of Person in Charge:	 Brent Goodrum, Dept of Natural Resources
Certified Applicator Name(s):	Summer Nay, Brandy McLean; Salcha-Delta Soil and Water Conservation District- Invasive Plants Program
Certification Numbers:	Nay (10851-2511-1/9); McLean (10923-2506-1/9)

1. Action Thresholds

Check the types or categories of pests that might present a problem or need to be controlled at this management site:

✓	Category
✓	Vegetation
	Insects
	Fungus
	Rodents
	Other (describe below)

For each pest category listed above, describe the level at which the pest becomes a problem which requires control measures to be taken.

Vegetation:

The Alaska Exotic Plants Information Clearinghouse addresses the respective invasiveness of non-native plants in Alaska in way of an invasiveness assessment and ranking system. The ranking system helps to consider the potential invasiveness and impacts of non-native plants to Alaska's natural lands through ranked values while also considering that different land managers may define risk and invasive potential differently based on site-specific aspects and management goals. This IPM addresses the control of invasive plant species ranked "moderately" (rank 60-69) "highly" (rank 70-79) and "extremely" (rank >80). The invasive plant species are 1) white sweet clover (*Melilotus albus*), 2) bird vetch (*Vicia cracca*)

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2. Monitor and Identify Pests

How often will the management area be inspected for the presence of pests?

The Contractor will survey the presence of vegetation at the treated material sites and the excessive vegetation along the access ROW one or more times.

Which locations will be inspected?

During each inspection, the certified applicator will survey vegetation at Mile Post 9 material site, 5-mile post sites and the access road ROW that spans 49 miles in length. The inspector will survey the areas for the presence of invasive plants.

What methods will be used for identifying and quantifying the presence of pests?

Known and potential new areas of infestation will be inspected visually on foot and inside a vehicle within the project area. Infestations are quantified through visual estimation, of amount of plants, infestation area, and by mapping the infestation in GIS.

How will pest species be identified?

Species will be identified by visual inspection. Identifications will be confirmed by field staff from the Contractor, Salcha-Delta Soil and Water Conservation District, who have been trained in invasive plant identification using the "Invasive Plants of Alaska" field guide produced in cooperation with The U.S. Department of Interior, et al and the "Identification of Non-Native Plants in Alaska" field guide produced by the UAA Alaska Center for Conservation Sciences or other identification resources.

Describe record keeping procedures:

Herbicide application records will be recorded on paper forms and then scanned and saved as digital copies. All electronic records and paper files will be located at the Contractor, Salcha-Delta Soil and Water Conservation District's office. Records will include required information from the DEC reporting template, including: record of each control, with date, location, invasive plant infestation size, etc.

The pre and post-treatment inspections will include the date, location, and presence of invasive plant species. The post treatment inspections will evaluate the effectiveness of the treatment with suggestions for follow up action.

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3. Prevent Pests

For each pest category listed under Section 1, describe preventative measures that will be taken:

Through monitoring, persistence, and cooperation, the opportunity to slow down the spread of invasive plant species on land associated with Pogo Mine operations is likely achievable.

How often will preventative measures be applied?

Preventative measures will be ongoing.

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4. Control Measures

For each pest category listed under Section 1, list potential non-chemical control measures that may be used:

Cultural Controls:	The invasive plant populations in this Project area are in natural areas. Cultural manipulation of the environment does not normally take place in this environment
Mechanical Controls:	<ul style="list-style-type: none"> • Vegetation within Pogo's access ROW may be pulled by hand, mowed, or cut with string trimmers.

For each pest category listed under Section 1, describe the characteristics needed in any chemical controls that may be used:

Vegetation: Systemic herbicide must be used to effectively control target invasive species along the Pogo Access Road while promoting growth of native species. Chemical controls described in this IPM will reduce the frequency of herbicide application efforts and eradicate future growth.

For each pest category listed under Section 1, list potential chemical controls that may be used:

Target Pest	Product Name	EPA Registration Number
White sweet clover, bird vetch	Milestone® by Dow AgroSciences	62719-519

Describe how treated areas will be re-inspected and evaluated for effectiveness of controls:

Following application of controls (mechanical, or chemical), the certified applicator will re-inspect each treated area to determine if the applied controls achieved the target control level.

The certified applicator will evaluate the effectiveness of controls. If control actions did not achieve the target control level, the certified applicator will recommend modifications or additional controls.