



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF FORESTRY

**NOTICE OF OPERATIONS
DETAILED PLAN OF OPERATIONS SUMMARY**

Notice is given to the commissioner that an operation will be conducted on the lands described below and the completed maps attached, (AS 41.17.090). (Print or type)

Operator: _____
(Entity Responsible for Field Operations)

Operator's authorized representative: _____
(Contact Person)

Operator's authorized representative signature: _____
(DATE)

Operator's representative address: _____

_____ City State Zip Code

LEGAL DESCRIPTION OF OPERATING AREA

Township: _____ Range: _____ Meridian: _____

Section(s): _____

NEAREST TOWN/ VILLAGE: _____

ESTIMATED STARTING DATE: _____

ESTIMATED COMPLETION DATE: _____

VOLUME TO BE HARVESTED: _____ MBF

TYPE OF ACTIVITY: _____



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF FORESTRY

**NOTICE OF OPERATIONS
DETAILED PLAN OF OPERATIONS**

Operation name: _____
Name of nearest USGS named geographical landmark: _____
Previously assigned DPO #: _____

Operator: _____
(Entity Responsible for Field Operations)

Print authorized representative's name: _____
Authorized representative's signature: _____
Address: _____
Telephone: _____ Fax: _____
E-mail: _____

Timber owner: _____
Print authorized representative's name: _____
Authorized representative's signature: _____
Address: _____
Telephone: _____ Fax: _____
E-mail: _____

Landowner: _____
Print authorized representative's name: _____
Authorized representative's signature: _____
Address: _____
Telephone: _____ Fax: _____
E-mail: _____

**INFORMATION ON CORPORATION, LIMITED PARTNERSHIPS, GENERAL
PARTNERSHIPS, OR JOINT VENTURES**

Information has been previously submitted to the Division of Forestry and there have been no changes in any of the business relationships or key personnel.

Is this statement true? ☐ Yes ☐ No

If "no", complete and submit Page(s) 1 and 2 of Supplemental Information Form "A".

Official Use Only

| | | |
|--------------|---------------------|--------------|
| REGION/AREA: | 30 DAY ENDING DATE: | RECEIVED BY: |
|--------------|---------------------|--------------|

Date Received: _____
DPO # _____



NOTICE OF OPERATIONS
DETAILED PLAN OF OPERATIONS
MAP SPECIFICATIONS

Attach a USGS quadrangle or similar **Vicinity Map**, at a 1:63,360 scale (1 inch =1 mile) suitable for black and white duplication on 8 ½"x11" paper which clearly shows the area of operations, a north arrow and if available, the legal subdivisions defining the area.

In addition to the above Vicinity Map, the items listed below are required to be identified on a **Detailed Plan of Operations Map** (11 AAC 95.220(a)(3)). The plan map should have the following areas identified or estimated if conditions exist that might influence their final location. If any of the items are missing without adequate explanation, this notification will be considered incomplete. The 30-day review period will not begin until this DPO is submitted in a complete form. The detailed map of operations should be readily reproducible in black and white in a standard size format. However, large formats or colored maps are acceptable if needed for clarity. If more than one sheet is required to adequately show operations, provide matchlines or reference each as a set of drawings i.e. Sheet 1 of 4, etc. Submit four (4) copies of your operation plan map.

Adequately label notable topographic features on each map (i.e. water bodies, etc.).

Does your **operation map** identify the following items? If "no" explain why.

| | Yes | No | Explanation /notes |
|--|-----|----|--------------------|
| Road Types | | | |
| Permanent | | | _____ |
| Temporary | | | _____ |
| Winter road | | | _____ |
| Roads to be closed | | | _____ |
| Inactive roads | | | _____ |
| Material extraction sites | | | _____ |
| End-haul sites and spoil deposit areas | | | _____ |
| Areas of unstable soil conditions | | | _____ |
| Unit boundaries | | | _____ |
| Yarding methods and landing areas | | | _____ |
| Classified surface water locations | | | _____ |
| Stream crossings and drainage structures | | | _____ |
| Proposed activities in riparian areas | | | _____ |
| Sort yard and solid waste sites | | | _____ |
| Log transfer or barge facility | | | _____ |
| Housing facilities, fuel storage | | | _____ |
| Section, township and meridian lines | | | _____ |
| North arrow, scale bar, plan date | | | _____ |



DETAILED PLAN OF OPERATIONS
HARVEST & SILVICULTURAL ACTIVITY
SUMMARY SHEET

Complete the following summary of harvest units and silvicultural actions for all submitted areas.

| Unit Label | Acres | Type of Activity* | Sec | TWP | RG | Actual Layout? Y or N |
|------------|-------|-------------------|-----|-----|----|--------------------------|
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TOTAL ACRES: _____ (If more than one kind of activity, list totals by activity.)

* i.e. harvest, thinning, planting, etc.

| |
|-------------------------------------|
| Date Received: _____ DPO # _____ |
|-------------------------------------|



NOTICE OF OPERATIONS
DETAILED PLAN OF OPERATIONS
HARVEST & SILVICULTURAL
CHARACTERISTICS

If the silvicultural activities in multiple units share a similar location, topographic characteristics and management treatments, list them on this page as a group. If the characteristics of the units are different, list each unit on a separate page. Attach additional detail pages as necessary to describe the activity. The following information should adequately describe the activity's potential to effect resources deemed important to the State in the Alaska Forest Resources and Practices Act and Regulations.

UNIT IDENTIFICATION(S): _____

Which of the following best describes the unit's topography?

☐ Relatively Flat ☐ Uniform Hillside ☐ Irregular or Complex Slopes

What percent of the unit occupies slopes greater than 67%? _____

TYPE OF ACTIVITY:

☐ Clearcut ☐ Partial Cut ☐ Salvage ☐ Other (Specify) _____
☐ Precommercial Thinning ☐ Chemical Application ☐ Commercial Thinning

FOR REGION II OR III – SEASON OF HARVESTING

☐ Winter harvest only
☐ Non-winter harvest only
☐ All-season harvest

CUTTING METHODS:

☐ Chainsaw ☐ Feller-buncher ☐ Whole Tree Processor ☐ Other _____

YARDING METHODS:

☐ Cable Yarding
Type: ☐ High Lead ☐ Skyline ☐ Other _____

☐ Ground Skidding

Type: ☐ Crawler Tractor ☐ Rubber Tired Skidder ☐ Shovel

Will forwarders or other off-road methods be used? ☐ YES ☐ NO

☐ Helicopter ☐ Other (Specify) _____

Will the activity be done by the: ☐ operator ☐ operator's contractor

If "contractor", has the contractor been copied this plan of operations? ☐ YES ☐ NO

Name of contractor: _____

List the roads or other means required for the access and removal of this timber from the landowner's property. _____



DETAILED PLAN OF OPERATIONS
ROAD ACTIVITY
SUMMARY SHEET

Complete the following summary of road actions for all submitted areas.

| Road Label | Road Miles | Type of Activity* | Units Along Road | Sec | TWP | RG | Actual Layout? Y or N |
|------------|------------|-------------------|------------------|-----|-----|----|--------------------------|
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TOTAL MILES OF NEW CONSTRUCTION: _____

* i.e. new construction, closure, reconstruction, etc.

| |
|-------------------------------------|
| Date Received: _____ DPO # _____ |
|-------------------------------------|



NOTICE OF OPERATIONS
DETAILED PLAN OF OPERATIONS
ROAD CHARACTERISTICS

If the road activities share a similar location and topographic characteristics, list them on this page as a group. If the characteristics of the roads are different, list each road on a separate page. Attach additional detail pages as necessary to describe the activity. The following information should adequately describe the activity's potential to effect resources deemed important to the State in the Alaska Forest Resources and Practices Act and Regulations.

ROAD IDENTIFICATION(S): _____

☐ New Construction ☐ Reconstruction ☐ Closure ROAD

CONSTRUCTION DETAILS:

METHOD:

- ☐ Modified natural sub-grade with rock fill overlay.
- ☐ Modified natural sub-grade with mineral soil overlay.
- ☐ Modified natural sub-grade with winter/ice road construction:
 - ☐ One winter only ☐ More than one winter
- ☐ Unmodified natural sub-grade, natural running surface.
- ☐ Reconstruction of one of the above methods (check one).
- ☐ Other _____

This road is: ☐ Permanent ☐ Temporary

What percent of the road occupies side slopes in the following categories:
_____ 0-30% _____ 30-67% _____ >67%

Are you removing or replacing drainage structures? ☐ YES ☐ NO

Will the road building be done by the: ☐ operator ☐ operator's contractor

If "contractor", has the contractor been copied this plan of operations? ☐ YES ☐ NO

Name of road contractor: _____



NOTICE OF OPERATIONS
DETAILED PLAN OF OPERATIONS
WATER AND SOIL QUALITY CHARACTERISTICS

Is there evidence of previous mass soil movement or surface erosion on the proposed road route or in the unit? If so, where and what methods will you employ to minimize additional soil movement in the future due to your activity?

List each known or suspected classified stream (11AAC 95.265) that will be crossed with a road:

| Stream Label | Stream Type | Road Label and Location Description | Type of Structure Proposed | Site visit Request? Yes/ No |
|--------------|-------------|-------------------------------------|----------------------------|-----------------------------|
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(Show the location(s) on the operation map and label them appropriately.)

List each unit that abuts or encompasses known or suspected classified waters:

| Unit Label | Stream Type | Stream Label | Variation Requests | | | Site visit Request? Yes/ No |
|------------|-------------|--------------|--------------------|----------|-------|-----------------------------|
| | | | None | Attached | Later | |
| | | | | | | |
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(Show the location(s) on operation map and label them appropriately.)

Detail operational activities that you plan to perform within the riparian areas of classified waters (11 AAC 95.265), such as stream crossings, road ROW, skyline corridors, tail-holds, yarding, etc. Show the location(s) on the operation map.

| |
|-------------------------------------|
| Date Received: _____ DPO # _____ |
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NOTICE OF OPERATIONS
DETAILED PLAN OF OPERATIONS
INSECT INFESTATION OR DISEASE
CONTROL METHODS

In Regions II & III (and Region I, if notified by the DOF) slash management for spruce trees or limbs greater than five (5) inches in diameter will be accomplished by:

- ☐ Manufacture into cants, lumber, house logs, chips, or firewood.
- ☐ Burning, subject to applicable regulations (anticipated date of burn: _____).
- ☐ Leaving limbs only, dried by uniform scattering in areas open to sunshine.
- ☐ Chemically treated, subject to applicable regulations;
- ☐ Stored in an appropriate manner, as specified (attach correspondence);
- ☐ Other methods (attach correspondence to be approved by the Division).

| |
|---|
| <i>Date Received:</i> _____ <i>DPO #</i> _____ |
|---|



NOTICE OF OPERATIONS
DETAILED PLAN OF OPERATIONS
REFORESTATION COMMITMENT

Regeneration of forested land is required within a specified time frame for each Region by the Alaska Forest Resources and Practices Regulations. See Sections 11 AAC 95.375, .380 and .385 for information on landowner's responsibilities. **Operators in Regions II and III must fill out Supplemental Sheet "C"** unless the operation is part of a land use conversion or the landowner requests an exemption from reforestation requirements

DOF may approve an exemption from the reforestation standards if the landowner can demonstrate to the satisfaction of the Area Forester that:

1. The stand is significantly composed of insect and disease-killed, wind thrown, fire killed, or fatally damaged trees;
2. The land will be converted to another use in accordance with 11 AAC 95.200; or
3. The stand will have a residual amount of trees that meet the minimum standards set out in 11 AAC 95.375(b) (3) and (4).

☐ Landowner requests an exemption from reforestation under 11AAC 95.375(g). Submit supporting documentation as per the Alaska Forest Resources and Practices Regulations or as directed by the Division of Forestry.

☐ Landowner requests a variation from reforestation standards under 11AAC 95.375(c). Submit documentation of pre-harvest stocking and distribution as per the Alaska Forest Resources and Practices Regulations or as directed by the Division of Forestry.

☐ Land use conversion (include a letter to the Division of Forestry stating the nature of the conversion, i.e. commercial, residential, agriculture or recreational land use).

REGENERATION METHOD

Region I

- ☐ Landowner will be artificially regenerating the site.
Species and source of seedlings or seed:
Date of proposed artificial planting:

Landowner will rely on natural regeneration of the site in Region I.
In Region I, skip to SITE PREPARATION METHOD on page 12.

Region II or III

- Landowner will be artificially regenerating the site.
Species and source of seedlings or seed:
Date of proposed artificial planting:

Landowner will rely on natural regeneration of the site in Region II or III. In these regions, please provide known information on the following indicators of suitability for natural regeneration. If a box is checked "no," please explain in the "Notes" box on page 12. N/A means "not applicable."

Yes No N/A Unknown

Seedbed and soil conditions suitable for natural regeneration

Moss layers are shallow ($\leq 4''$) or absent

Where birch or spruce regeneration is targeted, exposed mineral soil will exist on at least 25% of the harvest area and is well-distributed across the unit

Where aspen regeneration from suckering is targeted, root damage will be minimal and soil exposure will encourage warming.

Yes No N/A Unknown

Seed/vegetative reproduction sources available

Exposure to prevailing winds, if known

Adequate seed trees exist within 3 tree heights of the reforestation site for spruce or within 2 tree heights for birch

Where spruce regeneration is targeted, large seed crop in year prior to harvest or current year

Where vegetative reproduction is targeted, the harvest area contains sufficient, well-distributed paper birch, aspen, balsam poplar, western black cottonwood, red alder, or other species known to regenerate vegetatively as approved by the Division.

Yes No N/A Unknown

Competition and infestation risk

Calamagrostis (bluejoint grass) is not visually evident. If *Calamagrostis* is visually evident, describe abundance and distribution. Note: *Calamagrostis* coverage of more than 1-2% distributed across the site indicates that grass coverage may expand rapidly after harvest without treatment.

Equisetum (horsetail) is present prior to harvest

The site is not currently subject to intense herbivory due to peaks in the hare cycle, dense moose populations, or scarcity of browse in the surrounding landscape.

Existing stands are not infested with bark beetles (*Dendroctonus* or *Ips*)

Where spruce regeneration is targeted, harvest areas are free of known incidence of *Onnia tomentosus* root rot.

Note: *tomentosus* can kill regeneration of spruce and, to a lesser degree, pine and larch. If *tomentosus* is present, describe the extent of the problem in the "Notes" box on page 12. Design reforestation to minimize continuation or spread of the disease

Notes:

Note: If likely competition or other factors indicate challenges for natural reforestation, prompt reforestation through site preparation and/or artificial regeneration is recommended to ensure success and minimize costs.

☐ Landowner requests an extended period for natural regeneration under 11 AAC 95.375(d)(6)

SITE PREPARATION METHOD

What method of site preparation will be used? If different types of preparation methods are to be used in the notification area, attach adequate detail to define their location.

When will site preparation be accomplished? _____



NOTICE OF OPERATIONS
DETAILED PLAN OF OPERATIONS
SUPPLEMENTAL INFORMATION FORM "A"
CORPORATION, LIMITED PARTNERSHIP, GENERAL
PARTNERSHIP, OR JOINT VENTURE INFORMATION

INSTRUCTIONS:

Corporation, partnership or joint venture information is required by 11 AAC 95.220(b). After the initial submittal of this information, subsequent Detailed Plan of Operations need only make reference to the previously submitted materials.

If any of the business relationships or key personnel change during the notification period, this form must be resubmitted as appropriate to maintain compliance with 11 AAC 95.220(b).

The following information applies to the: ☐ Operator ☐ Timber Owner ☐ Land Owner

In accordance with 11 AAC 95.220(b),

CORPORATION: *"a corporation must be identified by a copy of the corporation's certificate of incorporation and articles of incorporation showing the corporation's name and articles of incorporation,"* ☐ Copy attached

Also disclose "The identities of the registered agent, president, vice president, secretary, and treasurer" below:

Registered Agent _____

President _____

Vice President _____

Secretary _____

Treasurer _____

LIMITED PARTNERSHIP: *"must be identified by a copy of the limited partnership agreement, evidence of filing of the limited partnership in the real property records as required by AS 32.11, and by the names and addresses of all general partners.*

☐ Copy attached (including names and addresses of all parties)

☐ Evidence of filing in Recorder's Office, attached



NOTICE OF OPERATIONS
DETAILED PLAN OF OPERATIONS
SUPPLEMENTAL INFORMATION FORM "A"
CORPORATION, LIMITED PARTNERSHIP, GENERAL
PARTNERSHIP, OR JOINT VENTURE INFORMATION

GENERAL PARTNERSHIP or JOINT VENTURE: 11 ACC 95.220(b) states that a general partnership or joint venture must be identified by documentation showing the:

(1) Proper name of the partnership or joint venture.

(2) Date that the partnership or joint venture was formed. _____

(3) Mailing address of the partnership or joint venture.

(4) Physical address of the partnership or joint venture.

(5) Names and titles of persons authorized to act for the partnership or joint venture.

(6) Names and addresses of all partners or all parties to a joint venture (use additional sheets as necessary).

NOTE: If any of the above information changes (including key individuals), resubmit Pages 1 and 2 of Supplemental Form "A".



NOTICE OF OPERATIONS
DETAILED PLAN OF OPERATIONS
SUPPLEMENTAL INFORMATION FORM "B"
MINING RECLAMATION ACT CERTIFICATION

This page of the Operations Plan need only be filed once a year for a particular operation area if all statements on this form are applicable to subsequent notifications during the current calendar year. Silvicultural operations according to Sec 27.19.050 of the Mining Reclamation Act are exempted from bonding and annual reclamation plan filing where less than five acres and less than 50,000 cubic yards of gravel or other materials are disturbed or removed at one location in any year and there is a cumulative disturbed area of less than five acres at one location.

Pursuant to 11 AAC 97.250, _____ certifies that:

[Company Name]

1. With respect to any material site to be established or operated in the current operating year that lies within the operating area covered by operations titled _____, DPO _____.
 - a. the total acreage and volume of the material to be mined from each material site are within the limits set out in AS 27.19.050(a)(2);
 - b. _____ will reclaim all acreage required to be
[Company Name]
rehabilitated under 11 AAC 95.325; and
 - c. _____ in compliance with the rehabilitation
[Company Name]
measures required under 11 AAC 95.325 will constitute the reclamation measures to be used to reclaim the total area mined; and
2. With respect to any material site established or operated in any prior year that lies within the operating area covered by this plan of operations:
 - a. the area and volume mined from each material site are within the limits set out in AS 27.19.050(a)(2); and
 - b. each material site is in compliance with 11 ACC 95.325

Dated: _____

[Company Name]

By: _____

Title: _____

Date Received: _____

DPO # _____



NOTICE OF OPERATIONS
DETAILED PLAN OF OPERATIONS
SUPPLEMENTAL INFORMATION FORM "C"
REFORESTATION PLAN EXAMPLE AND WORKSHEET

NOTE: This supplemental sheet must be completed for operations in Regions II and III unless the Area Forester gives a written reforestation exemption or the operator is making a land use conversion.

Regulations promulgated under the Alaska Forest Resources and Practices Act (AFRPA) requires harvested land in AFRPA Regions II and III to be reforested within seven years of harvest unless an extension is granted under 11 AAC 95.375(d)(6). The reforestation standards must be met by a sufficient number of vigorous, well-distributed commercial trees free from significant damage. Qualifying trees may be residual trees, new seedlings, or a combination of trees and seedlings approved by the division that meet the standards in 11 AAC 95 .375 (b)(4) and (d)(2). Regeneration must have survived on site a minimum of two years. Tree species considered by the Division for stocking purposes include Sitka spruce, white spruce, Lutz spruce, aspen, balsam poplar, western black cottonwood, and paper birch or other commercial species approved by the Division.

DETERMINATION OF RESIDUAL STOCKING LEVELS

To use this worksheet for reforestation planning, first estimate the number of residual commercial trees that will be left after timber harvest in each size class. Then, for each size class, divide the number of stems per acre needed to meet the minimum stocking standard found in 11 AAC 95.375(b)(4) into the estimated number of trees per acre left after harvest and multiply by 100 to determine the stocking percentage. Percentages from each size class are then added to determine overall residual stocking levels. An example follows:

RESIDUAL STOCKING TABLE EXAMPLE

| Average DBH (Diameter at breast height) | Residual Trees (Trees / acre) | Minimum Stocking Standard (Trees / acre) | Stocking % |
|--|----------------------------------|--|---------------|
| Greater than or equal to 9" | 20 | 120 | 17% |
| 6" to 8" | 30 | 170 | 18% |
| 1" to 5" | 60 | 200 | 30% |
| Total residual stocking % | | | 65% |

DETERMINATION OF MINIMUM SEEDLING REQUIREMENTS

In the example given above with 65% residual stocking, 158 additional tree seedlings per acre will be needed to satisfy the minimum stocking requirement. This is determined by multiplying the minimum 450 seedlings/acre times the balance of the stocking percentage (35%) to achieve the minimum stocking level. The required number of seedlings may be achieved through natural regeneration, planting or artificial seedling. The new trees must survive on the site for a minimum of two years within seven years of harvest.

RESIDUAL STOCKING CALCULATION TABLE

| Average DBH (Diameter at breast height) | Residual Trees (Trees / acre) | Minimum Stocking Standard (Trees/ acre) | Stocking % |
|--|----------------------------------|---|---------------|
| Greater than or equal to 9" | | 120 | % |
| 6" to 8" | | 170 | % |
| 1" to 5" | | 200 | % |
| Total Residual Stocking % | | | % |

SEEDLINGS REQUIRED

$$\text{Percentage Under stocked} = 100 - \text{Total Residual Stocking \%}$$

Percentage Under stocked = $100 - \underline{\hspace{2cm}}$ % = $\underline{\hspace{2cm}}$ %

$$\text{Seedlings/ Acre Required} = \text{Percentage Understocked}/100 \times 450$$

Seedlings/ Acre Required = _____ % /100 x 450 = _____