

AERIAL HERBICIDE PROJECT PLAN

for the Nipissing Forest

North Bay District, Northeast Region

Nipissing Forest Resource Management Inc.

for the one-year period from April 1, 2026 to March 31, 2027

I/We hereby confirm that this aerial herbicide project plan has been prepared in accordance with the requirements of the Forest Management Planning Manual and the FIM, and is consistent with the approved forest management plan.

Prepared by:

Andy Straughan, R.P.F.

A. Straughan, R.P.F., Silviculture Forester

June 18, 2026

Date

Submitted by:

Shelley Straughan, R.P.F.

S. Straughan, R.P.F., Plan Author

June 18, 2026

Date

I hereby certify that the forest operations which are scheduled in this annual work schedule have been developed in accordance with the requirements of the Forest Management Planning Manual.

[R.P.F. Seal]

Shelley Straughan, R.P.F.

Shelley Straughan, R.P.F., Plan Author

June 18, 2026

Date

I have read this aerial herbicide plan and found it to be complete and consistent with the approved forest management plan.

Approved by:

MNR District Manager

Date

NRIP Submission Identifier: **FM-754-2026-AWSHP-3106**

Original signed copies are filed at the MNR North Bay District and NFRM offices.

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AERIAL HERBICIDE PROJECT PLAN FOR THE NIPISSING FOREST

PROJECT DESCRIPTION

1. Program Objectives:

- a. Refer to the most recently approved herbicide Labels to prescribe rates and buffer widths.
- b. To utilize high-volume low-drift application technology that may facilitate achievement of satisfactory vegetation control while using the lowest possible application rate of herbicide.
- c. To apply approved herbicides at approved rates to release young conifer plantations from competing herbaceous and woody vegetation, which may prevent, or delay stands from reaching free to grow status.
- d. To provide for the continuous and predictable supply of wood products by ensuring success of the regeneration program through aerial application of herbicides for conifer release.
- e. To apply approved herbicides at approved rates to suppress herbaceous and woody species to allow for competition-free tree planting, while at the same time improving crop tree survival.
- f. To protect and enhance established natural regeneration through the prudent use of aerial applications of herbicides.

2. Treatment Area:

The treatment areas identified in this Plan have resulted from the implementation of a documented decision-making process referred to as “Judicious Use”. A detailed description of the approach is included in the “Integrated Pest Management Policy, Version 5.0 May 2025” document prepared by Nipissing Forest Resource Management.

The approach involves steps to characterize and map candidate sites according to the need for vegetation management. At this stage, the question of whether a non-herbicide-based method can achieve the management objective is posed. The answer forms part of the rationale for the decision to use herbicides.

The possible and feasible alternatives considered for each proposed treatment Block in this Plan are among the following:

- Prescribed Burning;
- Intensive Mechanical Site Preparation or Mechanical Tending;
- Manual tending with brushsaws, chainsaws, or clippers;
- Mechanical Cleaning using feller bunchers or skid-steer mulchers.

Other management techniques being considered and tested that may result in little to no herbicide being used are:

- Developing white and red pine restoration strategies/prescriptions where red pine is planted in recent clearcuts followed by density control treatments (pre-commercial and commercial thinning). This could enable the establishment (planting) of white pine approximately 20 years prior to the final harvest of red pine under a partial canopy similar to natural processes. Deep, coarse textured soils, optimal for growth of red/white pine, would likely have a lower amount of competing vegetation.
- Using higher than normal plantation establishment densities to capture sites early and quickly. Planting trees at 0.5-1-meter vs 1.8 meter spacing would result in less growing space being available for non-crop tree competition to develop. This approach would more closely emulate the natural development of conifer stands.
- Establishing red oak in the understory of suitable Shelterwood stands prior to conducting Regeneration harvests. Use of improvement cuts to clean out the understory followed by regeneration establishment (natural or artificial) may reduce or eliminate the need for tending treatments.

A total area of 1,940 hectares is proposed for aerial herbicide application, representing approximately 75% of the total area approved in the AWS.

A final review and rationalization process, including a second evaluation of treatment alternatives and more precise targeting of application blocks, has resulted in this planned treatment area.

Our monitoring program has concluded that all proposed treatment blocks require tending to reduce competition and support the growth of naturally and artificially regenerated conifer species (see Appendix 4 – Monitoring Program). Competition levels range from moderate to extreme.

A final evaluation and net-down of sites will occur prior to herbicide application.

3. Technical Name and Formulation of the Herbicides:

Product name – GlySil Herbicide: Active Ingredient – Glyphosate 356 grams acid equivalent per litre present as isopropylamine salt (PCT# 29009).

Product name – Garlon XRT Herbicide: Active Ingredient – Triclopyr 755 grams acid equivalent per litre present as butoxyethyl ester (PCP#28945).

4. Application Rates:

All applications will be carried out according to specifications indicated on the product labels:

GlySil – Maximum rate of 12 L/ha in 20–100 L/ha spray solution with water.

Garlon XRT – Maximum rate of 5 L/ha in a minimum of 30 L/ha spray solution with water.

In all cases where a mixture of these products is planned, mixing will be conducted in accordance with product label directions and will be subject to MECP approval. An example of this prescription is 1.5 L/ha of GlySil plus 2.2 L/ha of Garlon XRT in 46 L/ha of water.

5. Aircraft and Method of Application:

One to three helicopters with a minimum working load capacity of 450 litres will be used. The total mix volume will be applied with a boom and nozzle system.

6. Name of Planned Contractor(s)/ Applicator(s):

Zimmer Air Services Inc.

7. Name of Project Supervisor(s):

Andy Straughan, R.P.F.
Nipissing Forest Resource Management Inc.

8. Proposed Treatments:

Please see Appendix 1 for table documenting for each spray block: the proposed active ingredient and total mix application rate.

9. Proposed Timing of Activity:

Spraying is anticipated to commence on/about August 20, 2026 pending conifer dormancy and completed on/about Sept. 20, 2026.

10. Public Notification and Communications:

The Ministry of Natural Resources (MNR) will place ads in the local papers on/about 30, and 7 days prior to project start up, notifying the public that the spray plan is available for viewing online on the MNR public website Ontario.ca/forestplans. Nipissing Forest

Resource Management (NFRM) website will be updated on/about 30 days prior to project start up (<https://www.nipissingforest.com/herbicide>).

NFRM and the MNR will provide written notification as per the Forest Management Planning Manual (FMPM) which will be sent out 30 days prior to start-up of operations. The spray plan will also be part of the 2026/2027 AWS. It will be available for public review between March 15, 2026 and March 31, 2027.

Following MNR approval, NFRM will apply for MECP spray permits on/about July 5th.

Public Review of AWS – March 15, 2026 – March 31, 2027

Application to MECP for Spray Permit – July 5, 2026

Newspaper Ads 30 Day Public Notice – on/about July 19, 2026

Newspaper Ads 7 Day Public Notice – on/about August 13, 2026

Written notices to property owners, lease holders, license holders, work permit holders, Indigenous Communities and other groups of people with interests within 500 metres of the spray block – on/about July 19, 2026.

NFRM will post pesticide signs at main access points into the spray blocks, between 24 hours and 7 days prior to start-up of spraying that block.

Note: NFRM will give the MNR District office a 10 day “Notification of Forest Operational Activities” prior to start up, and at completion of the project.

11. Known Forest Values and Buffer Zones:

Known values have been identified using Areas of Concern (AOC) composite layer based off a hierarchy. The AOC with most restrictions to herbicide application will be followed.

The most recently approved herbicide labels have been reviewed and will be followed as they pertain to buffer width calculations. Buffer widths will follow product labelling where there is no conflict with the approved forest management plan (FMP). The greater buffer width, whether FMP or product label, will apply around values.

On February 18, 2021 a meeting occurred with Andy Straughan, RPF, District MNR Management Biologist and Management Forester to discuss herbicide labels particularly buffer width calculations. The agreement was made that the buffer widths in the herbicide labels are the minimum distances to be used. See appendix 3 for buffer width calculations and rationale for 60m vs 90m wide buffer.

OPERATIONS PLAN

The objective of this plan is to ensure good operational control of the project to maximize effectiveness, and to minimize risks of adverse off-target effects.

AIRCRAFT

Rotor-winged and not fixed-winged was chosen due to precision of application, safety, and nozzle technology.

ORGANIZATION

- Contractor(s)/Applicator(s): Zimmer Air Services Inc. (ZAS)
- Project coordinator: Nipissing Forest Resource Management Inc. (NFRM – Andy Straughan)
- Project Supervisor(s) NFRM - Andy Straughan

<u>Equipment / Personnel</u>	<u>Supplied By</u>
Project Coordinator	NFRM – Andy Straughan
Helicopter(s) / Pilot(s)	ZAS
Mix / Load unit(s)	ZAS
Project Supervisor(s)	NFRM - Andy Straughan
Mix / Load Personnel	ZAS
Security Officer	ZAS
Safety Officer	NFRM - Andy Straughan
Weather Recorder	NFRM, ZAS
Road Block / Support Personnel	NFRM - up to 6 personnel will be hired at time of application.

HERBICIDE STORAGE AND LOADING

NFRM will plan for up to two chemical storage trailers. Exact location to be confirmed. The application contractor(s) and the NFRM Project Supervisor will have key to the storage trailers to allow for self-coordinating of chemical pickup.

Herbicide will be delivered in a storage trailer containing a mix of 115/110 litre barrels, and 450 litre totes. Herbicide will either be pumped directly from those containers to mix-rig trucks, or the containers will be transported to the mix-rigs located at the field sites. The mix-rigs will also perform the function of storage. The contractor will be responsible for the mixing of the chemical and loading of the aircraft.

When travelling on roadways, the mix-rig truck will be escorted by a second vehicle.

APPLICATION CONTROL

Control of herbicide placement will be done by ground personnel, through visual observation of spraying from a distance. The pilot will be supplied with recent aerial photography of the aerial spray areas showing spray blocks and areas of concern. Legends will be clearly visible on the photo. Pilots will be provided with GIS shape files documenting target block boundaries, spray exclusion areas, and buffer zones that are uploaded to AGNAV prior to application. Location will be confirmed by NFRM when the aircraft is over the spray block (if applicable).

NOTE: Upon completion of the project, the contractor will provide NFRM the shape files showing flight paths indicating boom-on / boom-off information.

MIX-LOAD SITES

Mix-load sites will be located as near to the spray blocks as possible to reduce the amount of ferry distance at same time adhering to AOC's. These mix-load sites will be identified on maps once the best locations are determined and reviewed by project supervisor and applicator prior to commencement of program.

FLIGHT PATHS – EMERGENCY DUMP ZONES

Flight paths from mix-load sites will be located to minimize travel over AOC's. Flight paths will be reviewed with the pilots along with emergency dump zones. Emergency dump zones will be in the spray blocks or in cutover areas away from the AOC's. When applying herbicides inside the block, best effort should be made to reduce flight paths oriented towards AOC's.

WEATHER PARAMETERS

Weather conditions on site will be monitored and recorded by NFRM staff. Refer to approved product Labels for weather parameters.

MIXING AND FUELING

Both operations will be done by the contractors. Hot fueling will be permitted only on those aircraft having a closed refueling system.

COMMUNICATIONS

- a) Ground to spray aircraft communication must be available between the project supervisor and the contractor's pilot. Application contractors will provide radio frequency data to NFRM such that NFRM can have handheld radios programmed with those frequencies.
- b) Cell phone communication and/or 2-way radios will be used between project supervisor and ground crew.
- c) Cell phone will be on site at base camp to provide outside communications.
- d) Project supervisor will report to project coordinator each evening as to the progress of the day and start up location for next day.
- e) The safety plan and security plan form part of this operational plan (see safety and security plan).

DUTIES OF SPRAY BLOCK PERSONNEL - NFRM

- a) Posting pesticide signs at all reasonable access points into designated spray blocks. Signs will be posted not more than 7 days prior to herbicide application. In all cases, the information on the backside of the sign will be visible and readable.
- b) Observe from a distance, herbicide application in spray block.
- c) Offering information packages to interested individuals who may be held up during access restrictions to active spray blocks.
- d) Radio communication re: weather, aircraft location and application of spray.
- e) Removal of signs after 30 days of application (normally removed by November 1st).

PROJECT COORDINATOR DUTIES - NFRM

- a) Prepare aerial spray permit application for approval by MECP.
- b) Ensure Project Description, Operational Plan, Communications Plan, Security and Safety Plans are in place.
- c) Work with MNR staff to complete Communications Plan commitments.
- d) To work with Project Supervisor on day-to-day communications.
- e) Prepare final pesticide report summary for MECP review.
- f) Provide MNR a list stating approximate order of spray blocks at commencement of the project.

PROJECT SUPERVISOR DUTIES - NFRM

- a) To work with spray block personnel to provide a smooth delivery of the aerial spray project.
- b) While also acting as safety officer coordinating daily briefings with project staff and contractor, regarding safety and operational concerns. Briefings are usually conducted at the end of each spray session or before the next spray session or as required.
- c) To maintain a diary of the number of NFRM staff members present each day along with number of person hours worked.
- d) To assist in weather monitoring and recording, making decisions to continue spraying, or ground aircraft due to undesirable weather conditions.
- e) To ensure all pesticide signs are dated by ground crew members upon completion of each block.
- f) Provide MNR with updates regarding progression of program.

MIX/LOAD PERSONNEL DUTIES (INCLUDING PILOT)

- a) Proper mixing of pesticide.
- b) Instructing assistants on safe handling of pesticides.
- c) Equipment operation and maintenance.
- d) Equipment and supplies at mixing site.
- e) Safe storage and handling of supplies.
- f) Security at landing zone and mix/load site.
- g) Calibration of spray aircraft.

- h) Daily mapping of areas and hectares sprayed (duties shared with project supervisor).
- i) Maintain diary of staff involved, including exposure records.
- j) Daily record keeping, including checking amount of herbicide delivered compared to area treated.

Important Note: After each day of spraying, the pilot and mix/load personnel will check/compare/confirm load records for accuracy. Once it has been determined that all information is accurate, a block summary form supplied by NFRM, will be completed. Information will include block number, area sprayed and volume of chemical in litres of product / ha.

- k) Training of staff in use of equipment and safety
- l) Clean up of mixing/loading site after program, and
- m) Ensure equipment is cleaned, maintained and stored in preparation for next site
- n) Monitoring weather conditions, consulting with project supervisor when recommending whether to apply herbicides.

SAFETY OFFICER DUTIES

- a) Review safety concerns at daily briefings.
- b) Ensure the landing zone and mix/load site is safe and secure. This is done in cooperation with mix load personnel and pilot.

SECURITY PLAN

OBJECTIVES

The objectives of the Security Plan are to ensure the security of the total project in terms of ensuring that members of the public are not accidentally sprayed or otherwise injured and that there is no damage to or loss of equipment and materials, no personal risk to project staff and no delay of the operation.

NOTIFICATIONS

- a) Public notification through advertisements placed in local newspapers on/about July 19, 2026, for a 30 day public notice; as well as on/before August 13, 2026, for a 7 day public notice in the following newspapers:
 - North Bay Community Voices
 - Sturgeon Falls West Nipissing Tribune
 - Mattawa Recorder
 - Burks Falls Almaguin News
- b) Upon approval, project description will be available for public viewing at the NFRM office by appointment only, located at 128 Lansdowne Street, Callander (or website <https://www.nipissingforest.com/herbicide>) and the MNR public website https://nrip.mnr.gov.on.ca/s/fmp-online?language=en_US (navigate to Nipissing Forest).
- c) MNR Social Media (i.e., Facebook and Twitter).

SECURITY OF SPRAY BLOCKS

- a) Notice of aerial spraying signs will be posted at all usual access points into designated spray blocks up to 7 days prior to application. A map indicating location of spray blocks will be at the NFRM office and website <http://nipissingforest.com/herbicide>.
- b) While spraying is in progress, manned barricades will prohibit access. These will be removed as soon as the spray session has ended. Information packages about the spray program will be available to the public.
- c) Reconnaissance flights immediately prior to spraying the block will be flown by the contracted pilot to ensure that no one is in the spray block area, and to become familiar with the block.
- d) In the event a person is sprayed, they will immediately:
 - be provided with Toxilogical Fact Sheet (SDS/MSDS) (which ever Fact Sheet applies).
 - be provided with an opportunity to shower, at base camp, and have any sprayed clothes etc., laundered.

- be advised if they have any concerns, NFRM will transport them to medical authorities for examination/consultation.
- NFRM will immediately advise MNR District Manager of the incident.

SECURITY AT MIXING SITE/HELICOPTER PAD

The operations base and helicopter pad will be secured by prohibiting public access (to prevent loss or damage of equipment and materials, personal risk to project staff or delay/disruption of the operation).

- a) Pesticide storage will occur on the mix/load rig that will always remain secure. Washing facilities will be located nearby with soap and water. Appropriate gloves and safety eye wear will be near the storage area. All empty containers will be returned to the storage trailer. Empty plastic jugs will be triple rinsed and made ready to be recycled. Empty drums & totes will be returned to suppliers.
- b) Following completion of the spray operation, signs posting the spray area will be left up to 30 days minimum (except in cases of vandalism or theft). Signs are removed normally by November 1st (before access to signs becomes an issue).

SAFETY PLAN

The Contractors are responsible for ensuring that the mix-load sites are safe with respect to living conditions, general working conditions, fire hazards, pesticide mixing and loading and aircraft fueling and operations. The Contractors will also be responsible for fire suppression. A spill of herbicides and clean-up will be responded to as per MECP regulations and under their guidance. An air-crash will be responded to according to Transport Canada's regulations as set out in the "Aeronautical Information Publication".

AERIAL SPRAY EMERGENCY TELEPHONE NUMBERS

Mattawa General Hospital	744-5511
North Bay Regional Health Centre	474-8600
West Nipissing General Hospital-Sturgeon Falls	753-3110
West Nipissing Ambulance-Sturgeon Falls	753-5337
North Bay Ambulance	911 or 705-474-7400
Air Ambulance - Sudbury	1-800-461-4850
Forest Fire Reporting (south of French/Mattawa R.)	911
Forest Fire Reporting (north of French/Mattawa R.)	310-FIRE
North Bay Fire & Police	472-1221
North Bay Fire Control	475-5551
OPP (Central Dispatch)	1-800-310-1122
North Bay Airport - Transport Canada	476-1788
Poison Information Centre	1-800-268-9017
Dow Agro Sciences Canada Inc. - call Canutec	1-613-996-6666
(Independent Company) - (Poison Information)	cell coverage *666
Marine & Air Search & Rescue (Trenton Search & Rescue)	1-800-267-7270
MECP - Spill Notification	1-800-268-6060
MECP Regional Office - Sudbury	564-3237
MECP - North Bay	497-6865
Ministry of Labour (OH & S - Sudbury)	1-800-461-6325
North Bay-Mattawa Conservation Auth.	474-5420
Nipissing Forest Resource Management Inc.	752-5430
Project Coordinator/Supervisor, Andy Straughan, R.P.F. (business)	713-8713

MNR Contacts

Amy Chadwick, R.P.F.	491-1024
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All phone numbers in area code 705 unless otherwise noted. As other names and phone numbers become available, they will be added to this telephone list.

COMMUNICATIONS PLAN

OBJECTIVES

To provide SFL level co-ordination of communications for herbicide spraying operations.

MESSAGE

Components of the message are where, when, and how the project is to be undertaken and that the project will not jeopardize public health and safety. Public notices will be placed in newspapers which service the area. Letters will be sent to affected parties.

RESPONSIBILITIES OF NIPISSING FOREST RESOURCE MANAGEMENT

1. To maintain a master list of public correspondence (written or verbal) which could be explained successfully.
2. Any correspondence (written or verbal) where a reply cannot be communicated successfully, will be referred to the MNR immediately. If the MNR cannot successfully deal with the correspondence, it will be jointly reviewed between NFRM and the MNR. Verbal information will be recorded and maintained along with written correspondence and submitted to the MNR, North Bay at the same time as the post spray report.
3. Contentious correspondence will immediately be jointly reviewed by NFRM and MNR (NFRM will appoint one person to review. An alternate person will also be available). The verbal information will be recorded and maintained along with written correspondence.
4. To provide public access via the NFRM web site (<https://www.nipissingforest.com/herbicide>) and access to approved elements of the project plan. NFRM contact – Andy Straughan – 705-713-8713 Email: nfrm@nipissingforest.com

RESPONSIBILITIES OF THE MNR

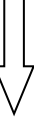
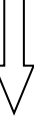
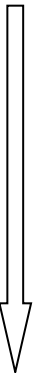
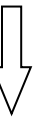
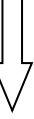
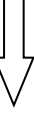
1. To prepare public notices and place them in appropriate local newspapers as per timing identified in Schedule of Communications.
2. To prepare public notification letters and mail them out to all individuals, companies or organizations listed in the Schedule of Communications.
3. To pay all costs associated with the above-mentioned notices and mailouts ie: postage, newspaper ads.
4. To maintain a master mailing list for all who are notified through the mailout process.
5. To maintain list of public correspondence received at the MNR (written or verbal) which could be explained successfully.
6. Any correspondence (written or verbal) where a reply cannot be communicated successfully will be referred to NFRM immediately. If NFRM cannot successfully deal with the correspondence, it will be jointly reviewed between the MNR and NFRM. Verbal information will be recorded and maintained along with written correspondence and submitted to NFRM after completion of the spray program.
7. Contentious correspondence will immediately be jointly reviewed by NFRM and MNR (MNR will appoint one person to review. An alternate person will also be available). The verbal information will be recorded and maintained along with written correspondence.

1 **SCHEDULE OF COMMUNICATIONS**

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Method	Timing	Responsibility
<u>Newspaper Ads:</u> - 30-day public notice - 7-day public notice	On/about July 19, 2026 On/about August 13, 2026	MNR MNR
<u>Project Description for Review:</u> - Available at NFRM website: http://www.nipissingforest.com/herbicide or the MNR 875 Gormanville Road North Bay ON, P1B 8G3	On/about July 19, 2026 – March 31, 2027	MNR / NFRM
Situation / Status Report	Available daily upon request depending on cell/wifi service during operations	Project Supervisor/ NFRM spokesperson
<u>Signage:</u> - posted at all access points leading into spray blocks	24hrs-7 days pre- application	NFRM
Media and other tours to Spray Operation Areas	As required when available	NFRM

<u>Letters to be sent:</u> The following stakeholders located within 500 metres of spray blocks: - Land Use Permit Holders - Registered Trappers - Bear Management Area Licence Holders - Municipalities - Private Land Owners - Active mining lease holders - Licenced bait fish harvesters - other stakeholders as requested <u>Letters to be sent:</u> - Local Citizen’s Committee members - North Bay-Mattawa Conservation Authority - Indigenous Communities - Forest Industry/Logging <u>Companies:</u> -MECP Regional Office -Permit Application	On/about July 19, 2026  On/about July 19, 2026  On/about July 19, 2026  On/about July 9, 2026 	MNR  NFRM  MNR  NFRM 
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APPENDIX 1 - PROPOSED ACTIVE INGREDIENT BY BLOCK ID

BLKID	OBM	ACTIVE INGREDIENT	HA
NFAT01	17-55-519	TRICLOPYR/GLYPHOSATE	3.2
NFAT02A	17-55-519	TRICLOPYR/GLYPHOSATE	14.1
NFAT02B	17-55-519	TRICLOPYR/GLYPHOSATE	0.6
NFAT02C	17-55-519	TRICLOPYR/GLYPHOSATE	3.6
NFAT02D	17-55-519	TRICLOPYR/GLYPHOSATE	59.1
NFAT02E	17-55-519	TRICLOPYR/GLYPHOSATE	1.1
NFAT02F	17-55-519	TRICLOPYR/GLYPHOSATE	29.2
NFAT02G	17-55-519	TRICLOPYR/GLYPHOSATE	18.3
NFAT03A	17-55-518	TRICLOPYR/GLYPHOSATE	28.1
NFAT03B	17-55-518	TRICLOPYR/GLYPHOSATE	22.2
NFAT04A	17-55-517	TRICLOPYR/GLYPHOSATE	4.9
NFAT04B	17-55-517	TRICLOPYR/GLYPHOSATE	2.4
NFAT04C	17-55-517	TRICLOPYR/GLYPHOSATE	6.9
NFAT05A	17-56-517	TRICLOPYR/GLYPHOSATE	9.8
NFAT05B	17-56-517	TRICLOPYR/GLYPHOSATE	2.1
NFAT05C	17-56-517	TRICLOPYR/GLYPHOSATE	3.3
NFAT05D	17-56-517	TRICLOPYR/GLYPHOSATE	3.5
NFAT05E	17-56-517	TRICLOPYR/GLYPHOSATE	12.1
NFAT05F	17-56-517	TRICLOPYR/GLYPHOSATE	2.5
NFAT06A	17-56-517	TRICLOPYR/GLYPHOSATE	3.3
NFAT06B	17-56-517	TRICLOPYR/GLYPHOSATE	2.4
NFAT06C	17-56-517	TRICLOPYR/GLYPHOSATE	10.5
NFAT06D	17-56-517	TRICLOPYR/GLYPHOSATE	1.9
NFAT06E	17-56-517	TRICLOPYR/GLYPHOSATE	11.9
NFAT07	17-56-517	TRICLOPYR/GLYPHOSATE	12.0
NFAT08A	17-56-517	TRICLOPYR/GLYPHOSATE	4.8
NFAT08B	17-56-517	TRICLOPYR/GLYPHOSATE	20.5
NFAT08C	17-56-517	TRICLOPYR/GLYPHOSATE	7.8
NFAT09A	17-56-517	TRICLOPYR/GLYPHOSATE	9.3
NFAT09B	17-56-517	TRICLOPYR/GLYPHOSATE	3.0
NFAT10A	17-56-517	TRICLOPYR/GLYPHOSATE	7.4
NFAT10B	17-56-517	TRICLOPYR/GLYPHOSATE	4.3
NFAT11A	17-57-517	TRICLOPYR/GLYPHOSATE	42.8
NFAT11B	17-57-517	TRICLOPYR/GLYPHOSATE	3.2
NFAT12C	17-57-517	TRICLOPYR/GLYPHOSATE	1.6
NFAT12D	17-57-517	TRICLOPYR/GLYPHOSATE	8.0
NFAT12E	17-57-517	TRICLOPYR/GLYPHOSATE	2.8

BLKID	OBM	ACTIVE INGREDIENT	HA
NFAT12F	17-57-517	TRICLOPYR/GLYPHOSATE	4.6
NFAT12G	17-57-517	TRICLOPYR/GLYPHOSATE	4.5
NFAT13	17-57-517	TRICLOPYR/GLYPHOSATE	27.6
NFAT14A	17-57-517	TRICLOPYR/GLYPHOSATE	5.3
NFAT14B	17-57-517	TRICLOPYR/GLYPHOSATE	6.5
NFAT14C	17-57-517	TRICLOPYR/GLYPHOSATE	50.5
NFAT14D	17-57-517	TRICLOPYR/GLYPHOSATE	7.7
NFAT15A	17-56-517	TRICLOPYR/GLYPHOSATE	23.1
NFAT15B	17-56-517	TRICLOPYR/GLYPHOSATE	20.6
NFAT16	17-56-517	TRICLOPYR/GLYPHOSATE	7.9
NFAT17	17-56-517	TRICLOPYR/GLYPHOSATE	19.2
NFAT18A	17-56-517	TRICLOPYR/GLYPHOSATE	28.5
NFAT18B	17-56-517	TRICLOPYR/GLYPHOSATE	0.8
NFAT18C	17-56-517	TRICLOPYR/GLYPHOSATE	0.8
NFAT18D	17-56-517	TRICLOPYR/GLYPHOSATE	3.9
NFAT18E	17-56-517	TRICLOPYR/GLYPHOSATE	2.3
NFAT18F	17-56-517	TRICLOPYR/GLYPHOSATE	13.2
NFAT20A	17-60-518	TRICLOPYR/GLYPHOSATE	5.1
NFAT20B	17-60-518	TRICLOPYR/GLYPHOSATE	3.4
NFAT20C	17-60-518	TRICLOPYR/GLYPHOSATE	1.2
NFAT20D	17-60-518	TRICLOPYR/GLYPHOSATE	3.7
NFAT20E	17-60-518	TRICLOPYR/GLYPHOSATE	8.6
NFAT20F	17-60-518	TRICLOPYR/GLYPHOSATE	8.2
NFAT20G	17-60-518	TRICLOPYR/GLYPHOSATE	1.1
NFAT20H	17-60-518	TRICLOPYR/GLYPHOSATE	2.8
NFAT20I	17-60-518	TRICLOPYR/GLYPHOSATE	2.3
NFAT20J	17-60-518	TRICLOPYR/GLYPHOSATE	6.3
NFAT20K	17-60-518	TRICLOPYR/GLYPHOSATE	10.6
NFAT20L	17-60-518	TRICLOPYR/GLYPHOSATE	0.8
NFAT20M	17-60-518	TRICLOPYR/GLYPHOSATE	5.2
NFAT21	17-63-518	TRICLOPYR/GLYPHOSATE	8.4
NFAT22A	17-63-518	TRICLOPYR/GLYPHOSATE	35.0
NFAT22B	17-63-518	TRICLOPYR/GLYPHOSATE	8.2
NFAT22C	17-63-518	TRICLOPYR/GLYPHOSATE	18.0
NFAT23	17-63-517	TRICLOPYR/GLYPHOSATE	5.4
NFAT24	17-63-517	TRICLOPYR/GLYPHOSATE	15.2
NFAT25A	17-63-517	TRICLOPYR/GLYPHOSATE	29.6
NFAT25B	17-63-517	TRICLOPYR/GLYPHOSATE	9.2
NFAT25C	17-63-517	TRICLOPYR/GLYPHOSATE	5.0
NFAT26A	17-62-517	TRICLOPYR/GLYPHOSATE	17.3

BLKID	OBM	ACTIVE INGREDIENT	HA
NFAT26B	17-62-517	TRICLOPYR/GLYPHOSATE	47.6
NFAT27A	17-63-517	TRICLOPYR/GLYPHOSATE	31.8
NFAT27B	17-62-517	TRICLOPYR/GLYPHOSATE	5.5
NFAT28A	17-62-518	TRICLOPYR/GLYPHOSATE	20.8
NFAT28B	17-62-518	TRICLOPYR/GLYPHOSATE	7.4
NFAT29A	17-62-517	TRICLOPYR/GLYPHOSATE	161.1
NFAT29B	17-62-517	TRICLOPYR/GLYPHOSATE	17.8
NFAT29C	17-62-517	TRICLOPYR/GLYPHOSATE	14.6
NFAT29D	17-62-517	TRICLOPYR/GLYPHOSATE	27.7
NFAT30A	17-62-517	TRICLOPYR/GLYPHOSATE	22.3
NFAT30B	17-62-517	TRICLOPYR/GLYPHOSATE	11.6
NFAT30C	17-62-517	TRICLOPYR/GLYPHOSATE	3.0
NFAT30D	17-62-517	TRICLOPYR/GLYPHOSATE	13.0
NFAT30E	17-62-517	TRICLOPYR/GLYPHOSATE	5.3
NFAT31	17-62-517	TRICLOPYR/GLYPHOSATE	17.5
NFAT32A	17-62-516	TRICLOPYR/GLYPHOSATE	5.0
NFAT32B	17-62-516	TRICLOPYR/GLYPHOSATE	3.1
NFAT32C	17-61-516	TRICLOPYR/GLYPHOSATE	6.8
NFAT32D	17-61-516	TRICLOPYR/GLYPHOSATE	1.8
NFAT32E	17-61-516	TRICLOPYR/GLYPHOSATE	2.5
NFAT32F	17-61-516	TRICLOPYR/GLYPHOSATE	22.5
NFAT32G	17-61-516	TRICLOPYR/GLYPHOSATE	8.8
NFAT32H	17-62-516	TRICLOPYR/GLYPHOSATE	10.4
NFAT33	17-62-516	TRICLOPYR/GLYPHOSATE	92.0
NFAT34	17-63-516	TRICLOPYR/GLYPHOSATE	19.9
NFAT35A	17-66-511	TRICLOPYR/GLYPHOSATE	9.6
NFAT35B	17-66-511	TRICLOPYR/GLYPHOSATE	6.0
NFAT36A	17-67-511	TRICLOPYR/GLYPHOSATE	8.1
NFAT36B	17-67-511	TRICLOPYR/GLYPHOSATE	15.4
NFAT36C	17-67-511	TRICLOPYR/GLYPHOSATE	11.3
NFAT36D	17-67-511	TRICLOPYR/GLYPHOSATE	0.7
NFAT37A	17-67-512	TRICLOPYR/GLYPHOSATE	2.0
NFAT37B	17-67-511	TRICLOPYR/GLYPHOSATE	2.4
NFAT37C	17-67-511	TRICLOPYR/GLYPHOSATE	3.4
NFAT37D	17-67-511	TRICLOPYR/GLYPHOSATE	5.6
NFAT37E	17-67-512	TRICLOPYR/GLYPHOSATE	5.5
NFAT37F	17-67-511	TRICLOPYR/GLYPHOSATE	6.1
NFAT37G	17-67-512	TRICLOPYR/GLYPHOSATE	11.3
NFAT37H	17-67-511	TRICLOPYR/GLYPHOSATE	10.7
NFAT37I	17-67-512	TRICLOPYR/GLYPHOSATE	0.9

BLKID	OBM	ACTIVE INGREDIENT	HA 1
NFAT37J	17-67-512	TRICLOPYR/GLYPHOSATE	1.2
NFAT37K	17-67-512	TRICLOPYR/GLYPHOSATE	14.9
NFAT38A	17-67-511	TRICLOPYR/GLYPHOSATE	12.1
NFAT38B	17-67-511	TRICLOPYR/GLYPHOSATE	4.2
NFAT38C	17-67-511	TRICLOPYR/GLYPHOSATE	15.6
NFAT39	17-68-512	TRICLOPYR/GLYPHOSATE	10.9
NFAT40A	17-68-512	TRICLOPYR/GLYPHOSATE	1.8
NFAT40B	17-67-512	TRICLOPYR/GLYPHOSATE	4.7
NFAT40C	17-68-512	TRICLOPYR/GLYPHOSATE	38.5
NFAT40D	17-68-512	TRICLOPYR/GLYPHOSATE	1.9
NFAT40E	17-68-512	TRICLOPYR/GLYPHOSATE	0.9
NFAT40F	17-68-512	TRICLOPYR/GLYPHOSATE	3.1
NFAT40G	17-68-512	TRICLOPYR/GLYPHOSATE	3.0
NFAT40H	17-67-512	TRICLOPYR/GLYPHOSATE	7.4
NFAT41A	17-68-512	TRICLOPYR/GLYPHOSATE	9.8
NFAT41B	17-68-512	TRICLOPYR/GLYPHOSATE	12.3
NFAT42	17-68-512	TRICLOPYR/GLYPHOSATE	10.4
NFAT43A	17-68-511	TRICLOPYR/GLYPHOSATE	1.1
NFAT43B	17-68-511	TRICLOPYR/GLYPHOSATE	37.1
NFAT43C	17-68-511	TRICLOPYR/GLYPHOSATE	0.7
NFAT43D	17-68-511	TRICLOPYR/GLYPHOSATE	6.4
NFAT44E	17-68-511	TRICLOPYR/GLYPHOSATE	19.8
NFAT44F	17-68-511	TRICLOPYR/GLYPHOSATE	3.7
NFAT44G	17-68-511	TRICLOPYR/GLYPHOSATE	21.9
NFAT44H	17-68-511	TRICLOPYR/GLYPHOSATE	3.3
NFAT45A	17-69-512	TRICLOPYR/GLYPHOSATE	13.5
NFAT45B	17-69-512	TRICLOPYR/GLYPHOSATE	19.0
NFAT45C	17-68-512	TRICLOPYR/GLYPHOSATE	9.6
NFAT45D	17-68-512	TRICLOPYR/GLYPHOSATE	26.5
NFAT46	17-69-512	TRICLOPYR/GLYPHOSATE	5.5
NFAT47A	17-69-512	TRICLOPYR/GLYPHOSATE	8.3
NFAT47B	17-69-512	TRICLOPYR/GLYPHOSATE	6.9
NFAT47C	17-69-512	TRICLOPYR/GLYPHOSATE	10.7
NFAT48A	17-69-511	TRICLOPYR/GLYPHOSATE	30.5
NFAT48B	17-69-511	TRICLOPYR/GLYPHOSATE	41.2
NFAT49	17-69-511	TRICLOPYR/GLYPHOSATE	21.0
Total Hectares			1,940

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APPENDIX 2 - COMPOSITE MAP (SEPARATE FILE)

APPENDIX 3 - BUFFER WIDTH CALCULATIONS AND RATIONALE

CURRENT APPROVED LABELS ("RESTRICTED USE" SECTION):

GarlonXRT PCP# 28945, version# 2021-01-04

Glysil PCP# 29009, version# 2018-05-23

APPLICATION DETAILS

- GarlonXRT Label has the most restrictive buffer widths.
- Glysil Label is least restrictive (e.g., 1 m buffer)
- Maximum allowable wind speed at boom-height ("release height") for GarlonXRT is 16 km/hr
 - o NFRM does not allow application >8 km/hr average wind speed
- Prescribed Helicopter Nozzles- Accu-Flo .016-76
 - o Droplet Spectrum- Extremely Coarse (750 VMD)
- Pilot navigation- AgNav and SAP photos with mapped buffers.
- Application control technology available- AcuFlow and Auto-Boom
- Prescribed total mix with water-
 - o 35 L/ha (Glysil)
 - o 50 L/ha (GarlonXRT or Glysil/GarlonXRT mix). Referred to as "high volume".
- Weather recording: occurs within spray blocks by NFRM staff with radio communications to pilot.
- Monitoring of active application occurs at a safe distance on the ground as needed to visually verify no drift is occurring and no nozzles are plugged.
- NFRM receives spatial record of boom-on from aircraft GPS.
- Post-spray assessments are completed on 90% of area per year on average by NFRM (efficacy assessment, next management stage, any off-target deposition into values, damage to crop trees, etc.)

CALCULATED BUFFER WIDTHS FROM OPEN WATER

The following buffer widths are determined from the latest approved product labels and specifications listed above:

ACTIVE INGREDIENT	Rate of Application	TRADE NAME	LOW DENSITY OVERSTOREY BOOM HT >10-20m	HIGH DENSITY OVERSTOREY BOOM HT >10-20m
triclopyr	2.2L	GarlonXRT	90 m	60 m
glyphosate	4.0L	Glysil	60 m	60 m

APPENDIX 4 – MONITORING PROGRAM

Forest Renewal Monitoring Protocol

REGENERATION TYPE	MEASUREMENT TYPE	Timing	Content
Planting	Planting Quality	Time of tree plant-contract specs	100 m ² plot, approximately one for every 5000 trees planted. Assess planting depth, spacing, microsite, leaning trees, etc.
	Temporary Sample Plots	Established at time of planting and measured 1, 2, & 5 growing seasons after tree plant	100 m ² plot. Approximately 1 for every 20,000 trees planted, minimum 1 per polygon. Data collection includes: height and health of crop trees, type and abundance of competition and natural regeneration, insects and disease problems, overstory BA (shelterwoods), size of upcoming seed year (seed tree and shelterwood) and prescribe timing and type of tending treatment, if required and prescribe timing for establishment survey. Data is collected on tally sheets and maintained in binder. TSP location is maintained in an archive shapefile on GIS.
	Establishment	Done 5 to 12 years after planting	SOI Method Used Assigns the future forest unit or identifies need for final tending or more time required to reach minimum height
Seeding	Temporary Sample Plots	Established 3 years after seeding, monitored year 4, 5, and 7 after seeding	100 m ² plot, 1 per polygon. Data collection includes: height and health of crop trees, type and abundance of competition and natural regeneration, insects and disease problems, overstory BA (shelterwoods), size of upcoming seed year (seed tree and shelterwood) and prescribe timing and type of tending treatment, if required and prescribe timing for establishment survey. Data is collected on tally sheets and maintained in binder. TSP location