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19 April 2021

Mr. Bob Robinson
MNRF Management Forester
Suite 5, 3767 Hwy 69 S
Sudbury, Ontario, P3G 1E7

SUBJECT:
Revision #7 for the Spanish Forest 2020-2021 AWS

Mr. Robinson,

EACOM Timber Corporation (EACOM) requests that a revision to the Spanish Forest 2020 Forest Management Plan (FMP) 2021-22 Annual Work Schedule (AWS) be made to append a copy of the 2021 aerial application of herbicides plan (spray plan) to the AWS.

The Forest Management Planning Manual (FMPM 2020) indicates that the spray plan is a component of an AWS. This revision is necessary to be consistent with the FMPM 2020, Forest Information Manual (FIM 2020) AWS Technical Specifications, and the MNRF direction: *Use of MNRF Websites for Ministry of the Environment Aerial Pesticide Permit Application and Annual Reporting Processes*, dated 30 January 2012. The Technical Specifications indicate that a spray plan is appended to the AWS, by submitting it separately as a change to the AWS. The MNRF direction specifies that the AWS spray plan revision be submitted separately as an "Annual Work Schedule Change", but not classified as a revision, so that it can be processed correctly to the MNRF public website.

Included with this AWS change is a copy of the certification and approval page; the spray plan; Table AR-5, Summary of Planned and Completed Pesticide Applications in Ontario Crown Forests; Source Water Protection Plan Self-Assessment; a summary map; and block maps of the proposed spray areas.

Should you have any questions or require more information regarding this AWS change request please contact me at the coordinates below.

Regards,

Megan Finlay
Management Forester
EACOM Timber Corporation

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SPANISH FOREST- 2021 AERIAL APPLICATION OF HERBICIDES

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SPANISH FOREST- 2021 AERIAL APPLICATION OF HERBICIDES

PROJECT DESCRIPTION

This Project Plan describes EACOM Timber Corporation's 2021 Aerial Application of Herbicide project that is currently proposed for conifer release and chemical site prep on the Spanish Forest. This project will follow all requirements defined by the manuals identified in the Crown Forest Sustainability Act (CFSA), specifically the Forest Management Planning Manual (FMPM) for Ontario's Crown Forests and The Forest Operations and Silviculture Manual.

All operations described within this plan will be carried out under EACOM's Sustainable Forest Licence (SFL) and as per the 2020 – 2030 Spanish Forest Management Plan.

This Project Description will be submitted to Sudbury, Timmins and Chapleau District offices of the Ontario Ministry of Natural Resources and Forestry (MNRF) as part of EACOM Timber Corporation 2021-2022 Annual Work Schedule (AWS) for the Spanish Forest, and is subject to internal MNRF review and approval process. This Aerial Application of Herbicides Project Description will be made available for public inspection as required.

1 OBJECTIVE

The objective of this project is to enhance the success of selected renewal treatments and to achieve desired results of appointed silvicultural treatment package(s). The objective of conifer release is to free desirable conifer species from existing or potentially competing vegetation in order to maintain survival and improve the growth of conifer crop trees. The objective of chemical site preparation portion of this project is to "hold-over" areas mechanically site prepared in 2020 but not anticipated to be planted until spring 2022.

2 SITE DESCRIPTION

A total of 5,041 hectares (ha) have been forecasted for aerial tending (4,486 ha of conifer release and 554 ha of chemical site preparation). Areas prescribed for aerial tending are made up of new and established conifer plantations. Information obtained through individual site assessments will determine the competing vegetation currently on the sites, as well as competing vegetation that can be expected to develop over the next three growing seasons that would impede growth and survival of the planted conifer crop trees. Competing vegetation within these areas may consists primarily of aspen, white birch, raspberry, alder, grasses, and other woody and herbaceous species.

Given the site conditions and success with past herbicide programs, herbicide treatment via rotary helicopter is the chosen tool. Brush saws and ground spray, while considered, are not as practical for these site conditions and do not reflect the past success of the herbicide program does.

The sites confirmed for conifer release have been selected as per MNRF *Guide for the Preparation of Implementation Manuals for the Application of Herbicides in Ontario (1989)*.

3 HERBICIDE

Timberline Forestry Herbicide (PCP No. 33456), manufactured by Alba Inc. is approved for use on silviculture sites and will be applied on all blocks being sprayed for conifer release. This herbicide is a water-soluble herbicide and contains Glyphosate at 540 grams acid equivalent (active ingredient) per litre, present as potassium salt.

GlySil Forestry Herbicide (PCP No. 29009), manufactured by TeraGro Inc. is approved for use on silviculture sites and will be applied on all chemical site preparation blocks. This herbicide is a water-soluble herbicide and contains Glyphosate at 356 grams acid equivalent (active ingredient) per litre, present as potassium salt.

4 RATE AND METHOD OF APPLICATION

The prescription for the areas selected for conifer release is to apply Timberline up to 1.62 kg of active ingredient (ai) per hectare applied at 30 to 40 liters of mixture per hectare, using water as a carrier. For those sites identified for chemical site preparation, GlySil will be applied up to a maximum rate of 2.49 kg of active ingredient (ai) per hectare in a total mix of 30 to 40 liters.

5 AIRCRAFT TYPE AND CAPABILITIES

The project will be carried out using rotary aircraft. There will be up to five helicopters with a minimum payload of 300 liters of mix per aircraft.

All aircraft will be equipped with: a boom and nozzle delivery system calibrated to deliver the specified volume with the desired droplet spectrum; a leak-resistant spray distribution system and a hopper capable of eliminating all drippings; aeronautical band transceivers operating in the 118 to 136 MHz spectrum (122.9 MHz); and a quick release dumping mechanism.

6 PROJECT SUPERVISOR

Mike Forrest, or designate, will act as the project supervisor throughout the implementation of this project.

7 LOCATION OF TREATMENT AREAS

Treatment areas fall within the Ontario Ministry of Natural Resources and Forestry Northeast Region, Chapleau, Sudbury and Timmins Districts. Maps showing the proposed treatment areas are included in the 2021-2022 Annual Work Schedule (AWS). A summary map will also be included with the AWS revision submission.

8 TIMING

Aerial application of herbicide for conifer release will occur after the conifer crop trees buds have "hardened off" and prior to significant deciduous leaf coloration. This is estimated to be between August 15th and September 30, 2021. Aerial application of herbicide for chemical site prep can occur earlier and is estimated to be between August 1st and September 30th, 2021.

9 NOTIFICATION

This section of the Project Description describes the steps to be taken to notify outside agencies, other resource users and the general public.

9.1 Ministry of the Environment, Conservation and Parks

At least sixty days prior to the anticipated commencement of aerial spraying, EACOM Timber Corporation will submit a “Summary of Planned and Completed Pesticide Applications in Ontario Crown Forests” table and supporting documentation to the Regional Office of the Ontario Ministry of the Environment, Conservation and Parks (MECP) for approval.

9.2 Outside Agencies, Resource Users and General Public

Public notification will take the form of advertisements in the local newspaper(s) and by a general notice mailing system. Advertisements will be posted by the MNRF, Sudbury District, approximately thirty days prior to the expected date of commencement and again one week (7 days) before the project start date.

General notices will be sent by the MNRF, Sudbury District approximately thirty days prior to the expected date of commencement, to all value holders (as identified by the MNRF) located in close proximity to proposed herbicide treatment areas.

Outside Agencies that may be directly affected by this project will be notified in person by the MNRF or the Company by means of telephone or facsimile prior to project commencement and as required throughout the project.

All concerns will be addressed as they arise. EACOM will attempt to resolve all concerns in a manner that is beneficial to both the value holder and the herbicide treatment operation. Each concern and the manner in which it is resolved will be documented in writing.

Signs will be erected prior to the commencement of aerial spraying. The staff at EACOM will post Ministry of the Environment, Conservation and Parks (MECP) approved signs at reasonable points of access into the treatment areas. Information contained on these signs will conform to MECP posting requirements. These signs shall be in place at least 24 hours prior to the application and shall remain in place for at least thirty days after spraying is completed.

10 BUFFER ZONES

This section identifies required buffer zones that apply to this project. The distances that have been used for this project constitute minimum buffer zones recommended for aerial spraying in Ontario Crown forests for the purpose of foliage protection and /or forest renewal, as stated in the *Ontario Ministry of Environment and Energy Buffer Zone Guidelines for Aerial Application of Pesticides in Crown Forests of Ontario*.

A Buffer Zone is defined as an area that is not assumed to be pesticide free, but rather an area which is not directly sprayed as part of the target area with pesticides, and where minimal spray deposits may fall as a result of adjacent spray operations. It is designed to prevent the deposition of spray materials onto Areas Requiring Protection (Permits for Forestry Aerial Pesticide Use Application Information Guide, MOEE, January 1993).

Appropriate Buffer Zones, as indicated on Aerial Herbicide maps, have been proposed on all human habitation, significant and sensitive areas within or adjacent to the treatment areas which require a Buffer Zone as recommended by MOEE Buffer Zone Guidelines for Aerial Application of Pesticides in Crown Forests of Ontario (February 1992).

11 HERBICIDE PROGRAM SUMMARY

The table “Summary of Planned and Completed Pesticide Applications in Ontario’s Crown Forests”, hereto attached, provides a project block summary. The table contains the following information: location, block identifier, area (ha), and purpose of the treatment, timing of treatment, herbicide to be used, and application method.

SPANISH FOREST- 2021 AERIAL APPLICATION OF HERBICIDES

OPERATIONAL PLAN

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

1 Aircraft:

The project will be carried out using rotary wing aircraft. There will be up to five helicopters with a minimum payload of 300 liters of mix per aircraft.

The average turn-around time per flight will be approximately 10-15 minutes, depending on ferrying distances between blocks and the mix rig. Approximately 100 ha per hour may be treated with suitable application weather. With an area of 5,041 ha to treat, approximately 58 hours of flying time will be required to complete this project.

2 Organization:

The Project Supervisor is the sole authority on the project. The Contractor, their employees and spray block personnel will all report to the Project Supervisor.

3 Transport, Storage, Mixing and Loading:

The herbicide will arrive in 10 litre, 115 litre, or 500 litre drums. EACOM Timber Corporation will be responsible for storing the herbicide prior to project start-up. The contractor will monitor all storage and perform all mixing and loading of aircraft once the project has started. Qualified personnel supplied by the contractor will be responsible for mixing. Herbicide will be stored in a secure enclosed trailer at a central location, in close proximity to project areas.

4 Application Rate:

The prescription for the areas selected for conifer release is to apply Timberline up to 1.62 kg of a.i. per hectare, applied at 30 to 40 litres of mixture per hectare, using water as a carrier. The prescription for the areas selected for chemical site preparation is to apply GlySil up to 2.49 kg of a.i. per hectare, applied at 30 to 40 litres of mixture per hectare using water as a carrier.

5 Control:

Control of herbicide placement will be done by licensed exterminators (Pilots) and visual observation of spraying from a distance by ground check personnel. Pilots will preview all blocks before application to ensure that all boundaries and spray buffers are known, as well as being clear of persons and/or vehicles in the application areas.

6 Maps and Records:

The aerial spray project supervisor will be responsible for:

- a) Recording all data on aerial spray record sheets.
- b) Monitoring weather conditions at the spray site and making recommendations on whether to spray or not.
- c) Checking daily the amount of herbicide delivered and applied compared to the area treated.
- d) Ensuring that aerial photographs are signed-off by the pilot upon completion of blocks.

7 Weather Parameters:

The Contractor or his delegate shall monitor weather conditions on site. The application of herbicide will occur when the following parameters are met:

- a) Temperature range: 5 to 24 degrees Celsius.
- b) Relative humidity: greater than 50%.
- c) Precipitation: 4 hours before anticipated rainfall; allow 2 to 3 hours to dry after rain.
- d) Wind: less than 10 km/hr.

8 Duties of EACOM Project Supervisor:

- 1) Ensure that MECP is notified of herbicide projects in writing.
- 2) Ensure that any person within a 1km distance around a spray block has been notified.
- 3) Have an Operating Plan, Communications Plan, Security Plan and Safety plan in place.
- 4) Deal with public and media with questions/concerns regarding operational programs.
 - a. Project Supervisors, Forestry Superintendent, Management Forester and authorized MNRF staff will be the only staff to answer questions from the media and the public.
- 5) Check that aircraft have been calibrated to deliver the required spray volume per ha.
- 6) Post "Notice of Aerial Spraying" signs at all reasonable access points into the spray blocks and updating once operations are completed.

9 Duties of the Contractor:

- 1) Responsible for:
 - a. Mixing, loading, and general operation of the project;
 - b. Proper Mixing of pesticides;
 - c. Instructing assistants in the safe handling of herbicides and use of equipment;

- d. Equipment operation and maintenance;
 - e. Safe storage and handling of supplies;
 - f. Security of equipment, supplies and mixing site;
 - g. Weather sampling at the site;
 - h. Calibration of spray aircraft; and
 - i. Daily record keeping.
- 2) Discuss with pilots where loads can be dumped in the event of mechanical failure of the aircraft. Any of the approved spray blocks can be utilized as a dump site in the event of an emergency.
 - 3) Ensure air operations are safe.
 - 4) Must have training in the Safe Handling and Use of Pesticides or must have a valid Exterminator's License.

10 Duties of Spray Block Personnel (supplied by the Contractor, if required):

- 1) Manning of barricades to restrict access to blocks during spray operations, if required.
- 2) Monitor weather on spray block and update block signs.
- 3) Removal of signs and barricades when needed.

11 Communications:

Base to spray aircraft communications will be conducted through handheld aeronautical radios or mobile Company radios.

The safety plan and security plan form a part of this plan. Copies are attached. The project will be carried out following the guidelines provided in the Aerial Spraying for Forest Management an Operational Manual.

SPANISH FOREST- 2021 AERIAL APPLICATION OF HERBICIDES

COMMUNICATIONS PLAN

1 Objectives:

To provide co-ordination of communications for herbicide spraying operations and to provide a guideline for communications during any emergency situation(s) that may occur as a result of spraying operations.

2 Message:

Where, when, and how the project is to be undertaken shall be advertised. Public notices will be placed in newspapers that service the area. Letters will be sent by MNRF, to the following resource users in the immediate vicinity of herbicide spraying operations:

- Land use permits in the immediate area;
- Trappers;
- Bait Fish Operators;
- Bear Management Operators;
- Tourist Outfitters; and
- Mineral Claim Holders.

3 Scope:

Newspaper Ads will be posted by the MNRF as follows:

- 30 day public notices July 1, 2021
- 7 day public notices July 25, 2021

Project Description:

EACOM Timber Corporation will prepare and have available for public review at:

- MNRF District offices July 1, 2021
- EACOM Timmins office July 1, 2021

General Notices:

- Letters to be prepared and sent by the MNRF by July 1, 2021.

4 Situation and status report:

The Project Supervisor will provide updated information during Spray operations as required.

5 Signage:

For spray areas as required by Environmental Assessment Act (EAA). EACOM will post signs at least 24 hours before spraying begins and will remove them 30 days after the completion of all spray operations for the season.

6 Media and other Tours:

As required, determined by EACOM Timber Corporation and/or MNRF.

Other communication activities may be carried out by EACOM Timber Corporation and MNRF Districts as required and suited to meet local needs.

The MECP will be notified at least 24 hours prior to the commencement of operations.

SPANISH FOREST- 2021 AERIAL APPLICATION OF HERBICIDES

SAFETY PLAN

The objective of this plan is to ensure the good health and well being of all personnel, directly and indirectly involved, through protection and the provision of equipment in compliance with all known governing regulations.

The project supervisor on site will be designated with the overall responsibility for safety and will ensure that the objectives are met.

1 Summary of Operations:

- 1) Proposed number of hectares to be sprayed: 4,486 hectares tending and 554 hectares chemical site preparation.
- 2) Herbicide to be used: Glyphosate; Timberline Forestry Herbicide and GlySil Forestry Herbicide
- 3) Helicopters will be used on this operation. Several loading and mixing sites will be used.
- 4) Spray Contractors: Apex Helicopters Inc. The contractor will supply all aircraft fuel, oil, and will be responsible for refueling.
- 5) Project staff organization: Project Supervisor – Mike Forrest, or designate. Additional staff will be determined prior to project start-up. To achieve the stated objective, the following actions will be implemented:
 - a. Project staff will be informed and trained as appropriate in respect to first aid and required safety equipment. As many employees as possible on site will possess a valid Standard First Aid Certificate.
 - b. Emergency Response: (As per EACOM Timber Corporations Emergency Preparedness & Response Manual – Forestry & Silviculture)
 - i. Air Ambulance - Sudbury (705) 673-1117 or 1-800-461-4850
 - ii. Gogama Ambulance – 1-877-351-2345
 - iii. Chapleau Hospital – 1-705-864-1520
 - iv. Chapleau Ambulance – 1-705-864-1999
 - v. EACOM Offices:
 1. Timmins Regional (705) 267-3339
 - vi. EACOM Representatives:
 1. Mike Forrest
 - a. (705) 267-3339, ext 504

- c. Aircraft Awareness: Persons working around or with aircraft will be informed of proper procedures and dangers, by pilots and project supervisor.
 - d. Aerial Spraying Operations Manual and the MECP Pesticides Safety Handbook will be available to persons with emphasis on sections of each individual's involvement.
- 6)** Project staff will be equipped and informed as appropriate in respect to:
- a. All staff will be issued the proper personal safety equipment required to perform their assigned duties.
 - b. Fire suppression equipment will consist of self-contained portable pressurized fire extinguishers (classes A, B and C).
- 7)** In the event of a medical or non-medical emergency, all or part of the following actions will be implemented:
- a. Regular operations will be suspended, and all necessary efforts made to aid injured persons, stabilize condition and dispatch to proper medical facilities. The incident will be fully investigated, and corrective measures taken to prevent re-occurrence.
 - b. In the event of an injury or death, Company procedures and policy will be followed.
 - c. In the event of an aircraft or vehicle accident, Company procedures and policies will be followed.
 - d. Notify the MECP of work locations.
- 8)** Aircraft and their operations will be controlled as follows:
- a. Communication between Project Supervisor and spray pilots will be by handheld portable radio. Personnel on block security may be equipped with portable radios.
 - b. A pocket weather meter capable of measuring temperature, wind speed, and relative humidity, will be used to provide accurate localized information. Environment Canada, local airports or other weather forecasting services will be contacted/consulted for a weather synopsis daily or as required.
 - c. All pilots will spend time familiarizing themselves with navigational landmarks, neighboring airstrips, emergency dumping sites and landing sites before the start of the project.
- 9)** A spill or dump will be responded to as follows:
- a. Sites will be located and approved by MECP before operations begin for disposal of contaminated material and emergency dumping.
 - b. MECP will be notified immediately of any dumps or spills. Response will be as per MECP guidelines.

- c. Any rinsing will be applied to a previously completed block in a regular manner.
 - d. Left over pesticide will be secured and removed as soon as possible after the completion of the project.
- 10) Fuel loading safety is the responsibility of the contractor.**

SPANISH FOREST- 2021 AERIAL APPLICATION OF HERBICIDES

SECURITY PLAN

The objectives of this plan are to ensure for the overall security of the project. The plan will be developed to ensure that members of the public are not accidentally sprayed or otherwise injured. Additionally, the plan will ensure that there is no damage to, or loss of equipment and materials, no personal risk to project staff, and no delay or disruption of the operation.

The spray operations base (mixing, loading and aircraft parking site) must be closed to the public, and under some form of security at all times. While spraying is in progress, the spray blocks must be closed to the public.

Appropriate security measures will be performed when the operation is shut down. Equipment will be secured and locked when not in use. Access into spray blocks will be restricted while spraying is in progress.

1 Security of Spray Blocks:

- 1) Public notification through advertisements placed in local newspapers on July 1, 2021 for the 30 day public notice, as well as on July 25, 2021 for the 7 day public notice, in the following newspapers:
 - a. Timmins Daily Press;
 - b. Chapleau Express;
 - c. Sudbury Star;
 - d. Le Voyageur;
 - e. Espanola Monitor; and

Project Descriptions will be available for public viewing at Chapleau, Timmins and Sudbury District Offices as well as at EACOM offices in Timmins from July 1, 2021.

- 2) Notice of aerial spraying signs will be posted at all reasonable access points into the designated spray blocks a minimum of 24 hours prior to application. Maps indicating the location of sign placement will be maintained by the Project Supervisor.
- 3) While spraying is in progress, access will be prohibited (e.g. Roads that are in close proximity to spray blocks will be blocked by staff).
- 4) All forest contractors will be notified prior to spray operations in the event their employees may be working near the spray blocks.
- 5) Reconnaissance flights immediately prior to application will be flown to ensure that persons who are in the area by virtue of or deliberate action or inadvertent access (fly-in or canoe-in) are not sprayed.
- 6) In the event of persons being sprayed, they will immediately be:
 - a) Provided with toxicological information for Timberline or GlySil Forestry Herbicides.

- b) Provided with the opportunity to bathe and to have clothes laundered.
- c) Advised that if they have any concern, the Company will transport them to medical authorities for examination.

Immediately following the operation, all barricades, equipment and signs notifying of closures will be removed. Persons referred to in section 4 will be notified so they can resume normal operations in the area.

2 Security at the Mixing Site:

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

- 1) Pesticide storage and security are governed by guidelines for storage, disposal and transportation of pesticides by the MECP regulations as well as Company policies.
- 2) Pesticide storage will comply with MECP regulations to prevent unauthorized access.
- 3) Chemical storage signs will be visibly posted at the pesticide storage site.
- 4) Mixing tanks and equipment will be locked and posted with chemical mixing and loading sign and chemical storage sign. Access will be restricted to authorized persons only.
- 5) Inventory of equipment and location will be maintained.
- 6) Tours of spray operations will be conducted by the project supervisor to selected groups only that have provided advance notification. Tours will be kept to a minimum and carried out when aircraft have ceased operations. Specific arrangements should be made for guided tours in the event of requests from the media.
- 7) Immediately following the operation, all barricades, equipment and signs notifying of closure will be removed.

Appendices

APPENDIX 1. Summary of Planned and Completed Pesticide Applications in Ontario's Crown Forests



This document satisfies the data reporting requirements of both the *Crown Forest Sustainability Act* and the *Pesticides Act* with regard to aerial pesticide applications in Crown Forests

Summary of Planned and Completed Pesticide Applications in Ontario Crown Forests

Management Unit Name: Spanish Forest

Plan Period: 2020-2030

Annual Report Term: 2021-22

Year of Application: 2021

Application Type: Aerial - Rotary

Purpose of Application: Chem SIP

Pesticide / PCP Number: GlySil Forestry Herbicide / 29009

Concentration grams/litre: 356

Operator: Apex Helicopters Inc.

Operator Licence #:

MECP Regional Office: Sudbury

MECP Permit Number:

Spray Period		Site of Application		Pesticide Used				Exterminator		Aircraft	Incidents / Complaints		
Start Date dd/MM	End Date dd/MM	1: 20,000 Scale OBM Map Sheet Zone, East, North e.g. 16-30-535	Block	# of Applications	Application Rate in kg per ha.	Proposed Size of Treatment Area (ha)	Actual Size of Treatment Area (ha)	Total Quantity of Pesticide product used in kg ai	Name	Number	Registration Number	Y/N	Reference Number (Supplied by MECP Pesticides Specialist)
01/08	30/09	17-43-526	Benneweis1	1	2.49	11.6							
01/08	30/09	17-43-526	Chester1	1	2.49	27.2							
01/08	30/09	17-42-526	Chester2	1	2.49	118.9							
01/08	30/09	17-38-528	Garnet3	1	2.49	50.8							
01/08	30/09	17-38-528	Garnet4	1	2.49	55.6							
01/08	30/09	17-43-526	Invergarry1	1	2.49	73.3							
01/08	30/09	17-42-527	Potier1	1	2.49	27.8							
01/08	30/09	17-42-527	Potier2	1	2.49	18.8							
01/08	30/09	17-42-527	Potier3	1	2.49	69.4							
01/08	30/09	17-42-526	Smuts1	1	2.49	17.0							
01/08	30/09	17-42-526	Smuts2	1	2.49	3.0							
01/08	30/09	17-42-526	Smuts3	1	2.49	15.8							
01/08	30/09	17-42-526	Smuts4	1	2.49	15.6							
01/08	30/09	17-42-526	Yeo1	1	2.49	31.7							
01/08	30/09	17-42-526	Yeo2	1	2.49	18.1							
					Total	554.5	0.0	0.0					



This document satisfies the data reporting requirements of both the *Crown Forest Sustainability Act* and the *Pesticides Act* with regard to aerial pesticide applications in Crown Forests

Summary of Planned and Completed Pesticide Applications in Ontario Crown Forests

Management Unit Name: *Spanish Forest*

Plan Period 2020-2030

Annual Report Term: 2021-22

Year of Application: 2021

Application Type: *Aerial - Rotary*

Purpose of Application: *Chem SIP*

Pesticide / PCP Number: *GlySil Forestry Herbicide / 29009*

Concentration grams/litre: *540 grams/L*

Operator: *Apex Helicopters Inc.*

Operator Licence #:

MECP Regional Office: *Sudbury*

MECP Permit Number:

Spray Period		Site of Application		Pesticide Used					Exterminator		Aircraft	Incidents / Complaints	
Start Date dd/MM	End Date dd/MM	1: 20,000 Scale OBM Map Sheet Zone, East, North e.g. 16-30-535	Block	# of Applications	Application Rate in kg per ha.	Proposed Size of Treatment Area (ha)	Actual Size of Treatment Area (ha)	Total Quantity of Pesticide product used in kg ai	Name	Number	Registration Number	Y/N	Reference Number (Supplied by MECP Pesticides Specialist)
01/08	30/09	17-39-523	Abney1	1	1.62	8.7							
01/08	30/09	17-40-525	Alcona1	1	1.62	60.7							
01/08	30/09	17-41-525	Alcona10	1	1.62	99.5							
01/08	30/09	17-40-525	Alcona2	1	1.62	43.8							
01/08	30/09	17-41-525	Alcona3	1	1.62	12.2							
01/08	30/09	17-41-525	Alcona4	1	1.62	16.2							
01/08	30/09	17-41-525	Alcona6	1	1.62	5.6							
01/08	30/09	17-41-525	Alcona7	1	1.62	19.1							
01/08	30/09	17-41-525	Alcona8	1	1.62	50.5							
01/08	30/09	17-41-525	Alcona9	1	1.62	38.2							
01/08	30/09	17-43-524	Arden1	1	1.62	63.7							
01/08	30/09	17-42-524	Arden2	1	1.62	39.7							
01/08	30/09	17-42-524	Arden3	1	1.62	14.7							
01/08	30/09	17-42-524	Arden4	1	1.62	15.4							
01/08	30/09	17-42-524	Arden5	1	1.62	13.3							
01/08	30/09	17-42-525	Arden6	1	1.62	13.3							
01/08	30/09	17-42-524	Arden7	1	1.62	9.1							
01/08	30/09	17-44-521	Athlone1	1	1.62	22.3							
01/08	30/09	17-44-522	Baynes1	1	1.62	20.4							
01/08	30/09	17-42-522	Bazett1	1	1.62	0.5							
01/08	30/09	17-37-528	Blamey1	1	1.62	8.7							
01/08	30/09	17-37-527	Blamey2	1	1.62	11.6							
01/08	30/09	17-37-527	Blamey3	1	1.62	4.2							
01/08	30/09	17-37-527	Blamey4	1	1.62	10.6							
01/08	30/09	17-40-525	Carew1	1	1.62	17.1							
01/08	30/09	17-40-525	Carew2	1	1.62	54.8							
01/08	30/09	17-40-525	Carew3	1	1.62	18.4							
01/08	30/09	17-42-522	Cavana1	1	1.62	5.1							
01/08	30/09	17-39-525	Cavell1	1	1.62	7.3							
01/08	30/09	17-39-525	Cavell2	1	1.62	15.9							
01/08	30/09	17-38-525	Ceylon1	1	1.62	41.9							
01/08	30/09	17-39-522	Cortez1	1	1.62	17.8							
01/08	30/09	17-37-528	Cunningham1	1	1.62	58.5							
01/08	30/09	17-37-528	Cunningham2	1	1.62	18.7							
01/08	30/09	17-37-528	Cunningham3	1	1.62	27.0							
01/08	30/09	17-45-521	Dublin1	1	1.62	91.9							



This document satisfies the data reporting requirements of both the *Crown Forest Sustainability Act* and the *Pesticides Act* with regard to aerial pesticide applications in Crown Forests

Summary of Planned and Completed Pesticide Applications in Ontario Crown Forests

Management Unit Name: *Spanish Forest*

Plan Period 2020-2030

Annual Report Term: 2021-22

Year of Application: 2021

Application Type: *Aerial - Rotary*

Purpose of Application: *Chem SIP*

Pesticide / PCP Number: *GlySil Forestry Herbicide / 29009*

Concentration grams/litre: *540 grams/L*

Operator: *Apex Helicopters Inc.*

Operator Licence #:

MECP Regional Office: *Sudbury*

MECP Permit Number:

Spray Period		Site of Application		Pesticide Used					Exterminator		Aircraft	Incidents / Complaints	
Start Date dd/MM	End Date dd/MM	1: 20,000 Scale OBM Map Sheet Zone, East, North e.g. 16-30-535	Block	# of Applications	Application Rate in kg per ha.	Proposed Size of Treatment Area (ha)	Actual Size of Treatment Area (ha)	Total Quantity of Pesticide product used in kg ai	Name	Number	Registration Number	Y/N	Reference Number (Supplied by MECP Pesticides Specialist)
01/08	30/09	17-45-521	Dublin2	1	1.62	28.5							
01/08	30/09	17-45-521	Dublin3	1	1.62	19.0							
01/08	30/09	17-41-522	Earl1	1	1.62	6.9							
01/08	30/09	17-43-525	Edinburgh1	1	1.62	8.1							
01/08	30/09	17-43-524	Edinburgh2	1	1.62	37.6							
01/08	30/09	17-35-528	Eisenhower1	1	1.62	2.2							
01/08	30/09	17-35-528	Eisenhower2	1	1.62	12.0							
01/08	30/09	17-41-528	Eric1	1	1.62	97.0							
01/08	30/09	17-41-528	Eric2	1	1.62	57.9							
01/08	30/09	17-40-528	Eric4	1	1.62	15.9							
01/08	30/09	17-45-516	Ermatinger1	1	1.62	16.3							
01/08	30/09	17-39-527	Esther1	1	1.62	51.5							
01/08	30/09	17-39-527	Esther2	1	1.62	34.8							
01/08	30/09	17-39-527	Esther3	1	1.62	0.1							
01/08	30/09	17-38-525	Faust1	1	1.62	11.6							
01/08	30/09	17-38-527	Fawn1	1	1.62	28.2							
01/08	30/09	17-40-518	Foucalt1	1	1.62	6.0							
01/08	30/09	17-40-518	Foucalt2	1	1.62	6.9							
01/08	30/09	17-40-518	Foucalt3	1	1.62	19.0							
01/08	30/09	17-40-518	Foucalt4	1	1.62	19.2							
01/08	30/09	17-40-518	Foucalt5	1	1.62	2.2							
01/08	30/09	17-40-518	Foucalt6	1	1.62	24.4							
01/08	30/09	17-40-518	Foucalt7	1	1.62	45.4							
01/08	30/09	17-40-519	Foucalt8	1	1.62	97.1							
01/08	30/09	17-48-517	Foy1	1	1.62	33.7							
01/08	30/09	17-48-517	Foy2	1	1.62	63.3							
01/08	30/09	17-38-528	Garnet1	1	1.62	148.1							
01/08	30/09	17-38-528	Garnet2	1	1.62	4.2							
01/08	30/09	17-36-528	Greenlaw1	1	1.62	35.2							
01/08	30/09	17-36-528	Greenlaw2	1	1.62	46.4							
01/08	30/09	17-37-528	Greenlaw3	1	1.62	19.2							
01/08	30/09	17-36-528	Greenlaw4	1	1.62	22.4							
01/08	30/09	17-36-528	Greenlaw5	1	1.62	22.4							
01/08	30/09	17-36-528	Greenlaw6	1	1.62	6.4							
01/08	30/09	17-39-524	Hall1	1	1.62	17.2							
01/08	30/09	17-39-524	Hall2	1	1.62	90.8							
01/08	30/09	17-39-524	Hall3	1	1.62	5.1							
01/08	30/09	17-39-524	Hall4	1	1.62	46.4							
01/08	30/09	17-39-524	Hall5	1	1.62	44.5							
01/08	30/09	17-39-525	Hall6	1	1.62	6.8							
01/08	30/09	17-39-525	Hall7	1	1.62	10.0							
01/08	30/09	17-46-518	Harty1	1	1.62	24.8							
01/08	30/09	17-47-518	Harty2	1	1.62	12.1							
01/08	30/09	17-39-529	Heenan1	1	1.62	13.4							



This document satisfies the data reporting requirements of both the *Crown Forest Sustainability Act* and the *Pesticides Act* with regard to aerial pesticide applications in Crown Forests

Summary of Planned and Completed Pesticide Applications in Ontario Crown Forests

Management Unit Name: *Spanish Forest*

Plan Period 2020-2030

Annual Report Term: 2021-22

Year of Application: 2021

Application Type: *Aerial - Rotary*

Purpose of Application: *Chem SIP*

Pesticide / PCP Number: *GlySil Forestry Herbicide / 29009*

Concentration grams/litre: *540 grams/L*

Operator: *Apex Helicopters Inc.*

Operator Licence #:

MECP Regional Office: *Sudbury*

MECP Permit Number:

Spray Period		Site of Application		Pesticide Used					Exterminator		Aircraft	Incidents / Complaints	
Start Date dd/MM	End Date dd/MM	1: 20,000 Scale OBM Map Sheet Zone, East, North e.g. 16-30-535	Block	# of Applications	Application Rate in kg per ha.	Proposed Size of Treatment Area (ha)	Actual Size of Treatment Area (ha)	Total Quantity of Pesticide product used in kg ai	Name	Number	Registration Number	Y/N	Reference Number (Supplied by MECP Pesticides Specialist)
01/08	30/09	17-40-525	Hollinger1	1	1.62	110.9							
01/08	30/09	17-40-524	Hollinger10	1	1.62	13.5							
01/08	30/09	17-40-524	Hollinger11	1	1.62	18.1							
01/08	30/09	17-40-524	Hollinger12	1	1.62	5.0							
01/08	30/09	17-40-524	Hollinger13	1	1.62	10.1							
01/08	30/09	17-41-524	Hollinger14	1	1.62	43.2							
01/08	30/09	17-40-524	Hollinger15	1	1.62	2.3							
01/08	30/09	17-41-525	Hollinger16	1	1.62	3.9							
01/08	30/09	17-41-525	Hollinger17	1	1.62	4.9							
01/08	30/09	17-41-524	Hollinger18	1	1.62	15.0							
01/08	30/09	17-41-524	Hollinger2	1	1.62	21.5							
01/08	30/09	17-41-524	Hollinger3	1	1.62	22.7							
01/08	30/09	17-41-524	Hollinger4	1	1.62	15.5							
01/08	30/09	17-41-524	Hollinger5	1	1.62	12.6							
01/08	30/09	17-41-524	Hollinger6	1	1.62	27.4							
01/08	30/09	17-40-524	Hollinger7	1	1.62	43.0							
01/08	30/09	17-41-524	Hollinger8	1	1.62	3.7							
01/08	30/09	17-40-524	Hollinger9	1	1.62	15.2							
01/08	30/09	17-38-523	Hubbard5	1	1.62	56.9							
01/08	30/09	17-41-528	Huffman1	1	1.62	10.8							
01/08	30/09	17-38-522	Iris1	1	1.62	14.1							
01/08	30/09	17-40-524	Joffre1	1	1.62	16.3							
01/08	30/09	17-40-524	Joffre2	1	1.62	0.4							
01/08	30/09	17-40-524	Joffre3	1	1.62	1.1							
01/08	30/09	17-40-524	Joffre4	1	1.62	1.2							
01/08	30/09	17-40-524	Joffre5	1	1.62	1.6							
01/08	30/09	17-36-528	Kaplan1	1	1.62	3.8							
01/08	30/09	17-36-527	Kaplan2	1	1.62	35.4							
01/08	30/09	17-36-528	Kaplan3	1	1.62	14.9							
01/08	30/09	17-39-517	Lefebvre1	1	1.62	13.3							
01/08	30/09	17-39-517	Lefebvre2	1	1.62	108.0							
01/08	30/09	17-39-517	Lefebvre3	1	1.62	16.1							
01/08	30/09	17-47-518	Leinster1	1	1.62	28.3							
01/08	30/09	17-46-518	Leinster2	1	1.62	32.0							
01/08	30/09	17-46-518	Leinster3	1	1.62	133.9							
01/08	30/09	17-46-518	Leinster4	1	1.62	31.3							
01/08	30/09	17-40-528	Mallard1	1	1.62	57.9							
01/08	30/09	17-40-528	Mallard2	1	1.62	52.1							
01/08	30/09	17-44-523	Marquette1	1	1.62	25.7							
01/08	30/09	17-44-522	Marquette2	1	1.62	14.6							
01/08	30/09	17-44-522	Marquette3	1	1.62	15.8							
01/08	30/09	17-43-522	Marquette4	1	1.62	14.6							
01/08	30/09	17-43-522	Marquette5	1	1.62	44.4							
01/08	30/09	17-44-522	Marquette6	1	1.62	45.8							



This document satisfies the data reporting requirements of both the *Crown Forest Sustainability Act* and the *Pesticides Act* with regard to aerial pesticide applications in Crown Forests

Summary of Planned and Completed Pesticide Applications in Ontario Crown Forests

Management Unit Name: *Spanish Forest*

Plan Period 2020-2030

Annual Report Term: 2021-22

Year of Application: 2021

Application Type: *Aerial - Rotary*

Purpose of Application: *Chem SIP*

Pesticide / PCP Number: *GlySil Forestry Herbicide / 29009*

Concentration grams/litre: *540 grams/L*

Operator: *Apex Helicopters Inc.*

Operator Licence #:

MECP Regional Office: *Sudbury*

MECP Permit Number:

Spray Period		Site of Application		Pesticide Used					Exterminator		Aircraft	Incidents / Complaints	
Start Date dd/MM	End Date dd/MM	1: 20,000 Scale OBM Map Sheet Zone, East, North e.g. 16-30-535	Block	# of Applications	Application Rate in kg per ha.	Proposed Size of Treatment Area (ha)	Actual Size of Treatment Area (ha)	Total Quantity of Pesticide product used in kg ai	Name	Number	Registration Number	Y/N	Reference Number (Supplied by MECP Pesticides Specialist)
01/08	30/09	17-44-518	Moncrief1	1	1.62	24.9							
01/08	30/09	17-44-518	Moncrief2	1	1.62	19.9							
01/08	30/09	17-45-518	Moncrief4	1	1.62	21.6							
01/08	30/09	17-45-518	Moncrief5	1	1.62	8.6							
01/08	30/09	17-45-518	Moncrief6	1	1.62	41.9							
01/08	30/09	17-45-518	Moncrief7	1	1.62	54.4							
01/08	30/09	17-44-518	Monncrief3	1	1.62	71.1							
01/08	30/09	17-46-518	Munster1	1	1.62	35.1							
01/08	30/09	17-43-523	Paudash1	1	1.62	18.0							
01/08	30/09	17-44-523	Paudash2	1	1.62	80.1							
01/08	30/09	17-39-517	Plourde1	1	1.62	25.6							
01/08	30/09	17-39-517	Plourde2	1	1.62	20.9							
01/08	30/09	17-39-517	Plourde3	1	1.62	50.7							
01/08	30/09	17-39-517	Plourde4	1	1.62	3.1							
01/08	30/09	17-39-517	Plourde5	1	1.62	15.5							
01/08	30/09	17-39-517	Plourde6	1	1.62	17.1							
01/08	30/09	17-46-519	Rhodes1	1	1.62	61.4							
01/08	30/09	17-42-526	Smuts5	1	1.62	106.1							
01/08	30/09	17-41-522	Specht1	1	1.62	3.8							
01/08	30/09	17-42-521	Specht2	1	1.62	15.0							
01/08	30/09	17-42-522	Specht3	1	1.62	121.2							
01/08	30/09	17-42-522	Specht4	1	1.62	44.6							
01/08	30/09	17-41-515	Strain1	1	1.62	22.1							
01/08	30/09	17-41-515	Strain2	1	1.62	5.6							
01/08	30/09	17-41-515	Strain3	1	1.62	10.2							
01/08	30/09	17-41-515	Strain4	1	1.62	15.2							
01/08	30/09	17-41-515	Strain5	1	1.62	20.3							
01/08	30/09	17-41-515	Strain6	1	1.62	10.3							
01/08	30/09	17-41-515	Strain7	1	1.62	15.8							
01/08	30/09	17-35-528	Tooms1	1	1.62	12.6							
01/08	30/09	17-35-528	Tooms2	1	1.62	27.8							
01/08	30/09	17-35-528	Tooms3	1	1.62	7.5							
01/08	30/09	17-35-528	Tooms4	1	1.62	3.6							
					Total	4,486.8	0.0	0.0					

APPENDIX 2. Source Water Protection Forms

Supplementary Source Protection Information Required for Aerial Pesticide Permits to Perform Pesticide Application in Crown Lands

SFL: EACOM

Forest: Spanish Forest

Block: Invegarry 1, Chester
1, 2, Smuts 5, Benneweis 1

1. Name /highlight the Source Protection Plan area or Region impacted by the proposed pesticide application to SFL holdings.

Lake Head Mattagami NorthBay-Mattawa Sudbury Sault Ste. Marie

2. Is the proposed pesticide application to land activity located or planned to be located in a vulnerable area identified in a local assessment report or source protection plan under the Clean Water Act, 2006?

Yes No

3. If yes, what is/are the vulnerable area(s)/zone(s) and the associated range of vulnerability score(s)?

Vulnerable Area(s)/ Zone(s)

Wellhead Protection Areas:

Surface Water Intake Protection Zones:

Highly Vulnerable Aquifers: 6

Issue Contributing Area:

4. Is the activity being applied for identified as a significant drinking water threat in a local assessment report or source protection plan? (Refer to The Table of Drinking Water Threats, 2017-18, found in Assessment Reports or at the ministry's website:

www.ontario.ca/environment-and-energy/tables-drinking-water-threats)

Yes No

Supplementary Source Protection Information Required for Aerial Pesticide Permits to Perform Pesticide Application in Crown Lands

SFL: EACOM

Forest: Spanish Forest

Block: Yeo 1, 2

1. Name /highlight the Source Protection Plan area or Region impacted by the proposed pesticide application to SFL holdings.

Lake Head Mattagami NorthBay-Mattawa Sudbury Sault Ste. Marie

2. Is the proposed pesticide application to land activity located or planned to be located in a vulnerable area identified in a local assessment report or source protection plan under the Clean Water Act, 2006?

Yes No

3. If yes, what is/are the vulnerable area(s)/zone(s) and the associated range of vulnerability score(s)?

Vulnerable Area(s)/ Zone(s)

- Wellhead Protection Areas:
- Surface Water Intake Protection Zones: 2
- Highly Vulnerable Aquifers: 6
- Issue Contributing Area:

4. Is the activity being applied for identified as a significant drinking water threat in a local assessment report or source protection plan? (Refer to The Table of Drinking Water Threats, 2017-18, found in Assessment Reports or at the ministry's website:

www.ontario.ca/environment-and-energy/tables-drinking-water-threats)

Yes No

Supplementary Source Protection Information Required for Aerial Pesticide Permits to Perform Pesticide Application in Crown Lands

SFL: EACOM

Forest: Spanish Forest

**Block: Foy1, 2, Harty1,
Leinster 1, 3, 4, Munster1,
Rhodes 1, Dublin 1, 2, 3,
Marquette 3, Paudash 2**

1. Name /highlight the Source Protection Plan area or Region impacted by the proposed pesticide application to SFL holdings.

Lake Head Mattagami NorthBay-Mattawa Sudbury Sault Ste. Marie

2. Is the proposed pesticide application to land activity located or planned to be located in a vulnerable area identified in a local assessment report or source protection plan under the Clean Water Act, 2006?

Yes No

3. If yes, what is/are the vulnerable area(s)/zone(s) and the associated range of vulnerability score(s)?

Vulnerable Area(s)/ Zone(s)

Wellhead Protection Areas:

Surface Water Intake Protection Zones:

Highly Vulnerable Aquifers:

Issue Contributing Area:

4. Is the activity being applied for identified as a significant drinking water threat in a local assessment report or source protection plan? (Refer to The Table of Drinking Water Threats, 2017-18, found in Assessment Reports or at the ministry's website: www.ontario.ca/environment-and-energy/tables-drinking-water-threats)

Yes No

Supplementary Source Protection Information Required for Aerial Pesticide Permits to Perform Pesticide Application in Crown Lands

SFL: EACOM

Forest: Spanish Forest

**Block: Harty 1, Leinster 2,
Baynes 1**

1. Name /highlight the Source Protection Plan area or Region impacted by the proposed pesticide application to SFL holdings.

Lake Head Mattagami NorthBay-Mattawa Sudbury Sault Ste. Marie

2. Is the proposed pesticide application to land activity located or planned to be located in a vulnerable area identified in a local assessment report or source protection plan under the Clean Water Act, 2006?

Yes No

3. If yes, what is/are the vulnerable area(s)/zone(s) and the associated range of vulnerability score(s)?

Vulnerable Area(s)/ Zone(s)

Wellhead Protection Areas:

Surface Water Intake Protection Zones:

Highly Vulnerable Aquifers: 6

Issue Contributing Area:

4. Is the activity being applied for identified as a significant drinking water threat in a local assessment report or source protection plan? (Refer to The Table of Drinking Water Threats, 2017-18, found in Assessment Reports or at the ministry's website:

www.ontario.ca/environment-and-energy/tables-drinking-water-threats)

Yes No

Supplementary Source Protection Information Required for Aerial Pesticide Permits to Perform Pesticide Application in Crown Lands

SFL: EACOM

Forest: Spanish Forest

Block: Marquette 2

1. Name /highlight the Source Protection Plan area or Region impacted by the proposed pesticide application to SFL holdings.

Lake Head Mattagami NorthBay-Mattawa Sudbury Sault Ste. Marie

2. Is the proposed pesticide application to land activity located or planned to be located in a vulnerable area identified in a local assessment report or source protection plan under the Clean Water Act, 2006?

Yes No

3. If yes, what is/are the vulnerable area(s)/zone(s) and the associated range of vulnerability score(s)?

Vulnerable Area(s)/ Zone(s)

Wellhead Protection Areas:

Surface Water Intake Protection Zones: 1

Highly Vulnerable Aquifers: 6

Issue Contributing Area:

4. Is the activity being applied for identified as a significant drinking water threat in a local assessment report or source protection plan? (Refer to The Table of Drinking Water Threats, 2017-18, found in Assessment Reports or at the ministry's website:

www.ontario.ca/environment-and-energy/tables-drinking-water-threats)

Yes No