Fort McMurray Regenerative Orchard & Invasive Species Control Plan

📍 \*\*Location:\*\* Fort McMurray, Alberta, Canada

📅 \*\*Date:\*\* June 30, 2025

📄 \*\*Prepared for:\*\* Investment Partners & Environmental Supporters

🔒 \*\*Status:\*\* Investor Ready | Confidential & Impact-Oriented

# 🌲 Project Overview

This initiative aims to regenerate native and fruit-bearing ecosystems on crown land near Fort McMurray, Alberta, while actively resisting the spread of invasive species. The goal is to foster a biodiverse food forest that supports wildlife, pollinators, and community resilience.

# 🍎 Viable Fruit & Berry Species

Selected based on hardiness (Zone 2-3b), wildlife value, and local ecosystem compatibility:  
  
\*\*Fruit Trees\*\*: Norland Apple, Dolgo Crabapple, Chokecherry, Siberian Apricot, Ussurian Pear, Brookred Plum  
  
\*\*Berries & Shrubs\*\*: Saskatoon, Haskap, Currant, Gooseberry, Raspberry, Wild Rose

# 🐝 Ecosystem Integration

- Mycorrhizal inoculation for tree health  
- Bee hotels and wildflower rings for pollinators  
- Deadwood microzones for fungi and insects  
- Strategic placement to mimic natural forest succession

# 🛡️ Invasive Species Defense Strategy

Key threats: Canada Thistle, Creeping Bellflower, Scentless Chamomile, Caragana, Buckthorn  
  
\*\*Control Methods\*\*:  
- Ground cover (clover, alfalfa, vetch)  
- Deep mulch layering  
- Dense native competition planting  
- Manual root removal and mowing cycles  
- Public reporting via QR and AI recognition tools

# 📍 Site Layout Concept

1-acre pilot layout on crown land (suggested GPS: 56.73 N, -111.47 W):  
- Windbreak Edge: Wild rose, spruce  
- Upper Ring: Apple, Chokecherry, Haskap  
- Lower Basin: Currants, Raspberries, Gooseberries  
- Center: Bee hub, tree tag post, volunteer QR board

# 📅 Seasonal Rollout Plan (2025–2026)

- Summer 2025: Scout site, gather seeds, start seedling prep  
- Fall 2025: Site prep, mulch install, sign placement  
- Winter 2025: Seed stratification and greenhouse starting  
- Spring 2026: Planting, watering, protection setup  
- Summer 2026: Invasive mitigation, biodiversity monitoring

# 💰 Investment & Support Needs

- Seedling & rootstock acquisition  
- Mulch, fencing, signage, water totes  
- Trail camera + solar power kit  
- NFC/QR coding system and mobile dashboard  
- Documentation + ongoing AI-driven ecosystem monitoring  
  
\*\*Initial Ask\*\*: $12,500 CAD (for first acre, scalable)

# 🧬 Outcome Goals & Metrics

- 100% survival of 60+ trees/shrubs in first year  
- 3 native pollinator species boosted  
- 3+ invasive species suppressed with non-chemical methods  
- Educational trail + community engagement zone  
- ROI via ecological credits and regenerative carbon offsets