



BOREALIS' MCPHEE CREEK PROJECT

PROJECT TYPE	Afforestation/reforestation, land use change
LOCATION	Nechako River Valley, near Prince George, British Columbia, Canada
STANDARDS	ISO14064, applying WRI GHG Protocol Guidance for LULUCF Carbon Accounting. Measurement using on-site sampling and Canadian Forest Service Carbon Budget Model v3.
DESCRIPTION OF PROJECT	<p>The McPhee Creek Project has planted 120,000 mixed, native spruce, pine and interior Douglas Fir trees on 75 ha of marginally productive agricultural and unused bare land. The project represents a land use change to a permanent, protected and managed sub-boreal forest ecosystem.</p> <p>Seedlings have been grown from local seed sources and have been selected based on their suitability for localized site ecology, elevation above sea level and latitude & longitude. The risk of natural disturbance, through insect, fire or disease, is minimized by the selection of a low-risk project area, planting mixed, native species and allowing the ingress of native deciduous trees.</p> <p>Borealis has financed monitoring and silviculture management of the new forest for twenty years and has set aside a cash reserve capable of re-planting 50% of the forest stand if necessary. Further, a 25% (400 tree) buffer against mortality has been planted on each hectare.</p>
SOCIAL & ENVIRONMENTAL BENEFITS	<ol style="list-style-type: none"> 1. Restores native bio-diversity, including the creation, maintenance and protection of wildlife habitat & fish bearing streams. 2. Creates economic opportunity and diversification in northern communities outside traditional resource extraction industries. 3. Creates new forest on private land that can support the return the sub-boreal forest to a carbon sink. 4. Respects, and protects where applicable, aboriginal cultural heritage. 5. Makes forest stands available for ongoing, long term academic research on carbon sequestration.
STAGE OF DEVELOPMENT	Phase One (22,000 tonnes CO ₂ e over 80 years, planted 2008) has been validated. Phase Two (~28,000 tonnes, planted 2009) to be validated fall '09.
TONNES CO ₂ E	50,000 ex-ante tonnes CO ₂ e sequestered over 80 years.
INSURED FORESTRY VERS	Ex-ante tonnes from the McPhee Creek Project will be bundled with verified, ex-post VCU tonnes by EcoSecurities and sold as Insured Forestry VERS.