Presented by

The British Columbia Technical and Research Committee on Reclamation

34th Annual Mine Reclamation Symposium

September 22, 2010 - Courtenay, BC
Highland Valley Copper
Highland Valley Copper

Creation of Riparian and Aquatic Habitat
2008 B.C. JAKE MCDONALD MINE RECLAMATION AWARD

Teck Highland Valley Copper Partnership for Highland Valley Copper Mine
2009 ANNUAL RECLAMATION AWARDS
2009 MINERAL EXPLORATION
CITATION

Alpha Gold Corporation
for Lustdust
2009 Drill pad reclamation
Lustdust

2010 Road reclamation
Re-establishment of small natural watercourses
Early re-seeding efforts
2009 MINERAL EXPLORATION CITATION

Alpha Gold Corporation for Lustdust
Elkhorn Quarry (2006)
Windermere

planted pre-1990

2003, seedling placement

Planted pre-1990

2005, grass establishment

Reclaimed waste dumps, no growth medium
Hydroseeding of waste rock dumps.
Note islands of native vegetation.
Windermere

Sediment control pond

Water quality monitoring
2009 QUARRY CITATION

CertainTeed Gypsum Canada Ltd. for Windermere Mining Operations
2009 COAL MINING
CITATION
2009 COAL MINING CITATION

Teck Coal Limited for Elkview Operations
Hazards in Michel Creek, pre-cleanup

Example of materials removed from Michel Creek.
Streambank following construction (April 2004)

Successfully revegetated streambank (August, 2010)
Red osier dogwood and willow brush layer
(May 2004)
Streambank and riparian bench after construction and seeding (2004)

Successfully revegetated streambank and riparian bench (2010)
Willow growth 6 years after planting (August 2010)
Teck Coal Limited
for Elkview Operations
2009 METAL MINING CITATION
Northgate Minerals Corporation for Kemess South Mine
Kemess South

Rough and loose surface preparation

Placement of Coarse Woody Debris

August 2009

September 2008

August 2010
Kemess South

Natural vegetation sites

Soil slinging

Borrow 3 Reclamation
Kemess South

Loose and rough soil preparation

Native vegetation encroachment

Borrow 7 Reclamation
Kemess South

Waste rock surface preparation and overburden placement (July, 2010)
Resloped waste rock dump with overburden placed (August 2010)
Reclamation of Tailings Dam
“Brown before Green”
Northgate Minerals Corporation for Kemess South Mine
2009 B.C. JAKE MCDONALD MINE RECLAMATION AWARD
2009 B.C. JAKE MCDONALD MINE RECLAMATION AWARD

Lehigh Materials for Sechelt Mine
Vegetated retaining berms block noise and improve visual aesthetics.
Biosolids and pulp sludge test plots

Biosolids application with manure spreader
Poplar plantation prior to reclamation (2004)

Poplar plantation (2009)
Poplar plantation, trees up to 13 m in height
(July 2009)
Wetland establishment

Sechelt
Work experience and training programs are part of the reclamation program.
Biosolids sampling for quality control

Groundwater sampling near reclamation operations
2009 B.C. JAKE MCDONALD
MINE RECLAMATION AWARD

Lehigh Materials
for
Sechelt Mine