

2009 MINE RECLAMATION AWARDS

Presented by

The British Columbia Technical and
Research Committee on Reclamation

34th Annual Mine Reclamation
Symposium

September 22, 2010 - Courtenay, BC



2008 B.C. JAKE MCDONALD MINE RECLAMATION AWARD

‘Keeper Trophy Presentation’



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



2009 MINERAL EXPLORATION CITATION

Alpha Gold Corporation
for Lustdust





Lustdust

2009 Drill pad reclamation



Lustdust



2010 Road reclamation

Lustdust



Re-establishment of small natural watercourses

Lustdust



Early re-seeding efforts



2009 MINERAL EXPLORATION CITATION

Alpha Gold Corporation
for Lustdust



2009 QUARRY CITATION





**2009 QUARRY
CITATION**

**CertainTeed Gypsum Canada Ltd.
for
Windermere Mining Operations**

Windermere



Elkhorn Quarry (2006)

Windermere



Reclaimed waste dumps, no growth medium

Windermere



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



Elkview



Hazards in Michel Creek, pre-cleanup

Example of materials removed from Michel Creek



Elkview



Streambank following construction (April 2004)

Successfully revegetated streambank (August, 2010)



Elkview



Red osier dogwood and willow brush layer
(May 2004)

Elkview



Streambank and riparian bench
after construction and seeding
(2004)



Successfully revegetated
streambank and riparian bench
(2010)

Elkview



Willow growth 6 years after planting (August 2010)



2009 COAL MINING CITATION

Teck Coal Limited
for Elkview Operations

2009 METAL MINING CITATION





**2009 METAL MINING
CITATION**

**Northgate Minerals Corporation
for Kemess South Mine**

Kemess South

Rough and loose
surface preparation



Placement of
Coarse Woody
Debris



September 2008

August 2009



August 2010



Kemess South



Dam buttress surface, July 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)**

Kemess South



**Resloped waste rock dump with overburden placed
(August 2010)**

Kemess South



Reclamation of Tailings Dam
“Brown before Green”



**2009 METAL MINING
CITATION**

**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

Sechelt



Vegetated retaining berms block noise and improve visual aesthetics.

Sechelt



Biosolids and pulp sludge test plots



Biosolids application with manure spreader

Sechelt



Poplar plantation prior to
reclamation (2004)



Poplar plantation (2009)

Sechelt



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

Sechelt



Wetland
establishment

Sechelt



Work experience and training programs are part of the reclamation program.



Sechelt



Biosolids sampling for
quality control



Groundwater sampling near
reclamation operations



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MINE RECLAMATION AWARD**

Lehigh Materials

for

Sechelt Mine