

# Aggregate Update

Coquitlam River Aggregate Committee

September, 2008



# Regulatory Oversight of Mining in BC

- MEMPR is the lead agency for the regulation of mines in B.C.
- *Mines Act and Health, Safety and Reclamation Code for Mines in BC* provides the framework for the regulation of all mines in B.C.
- Mining in B.C. is governed by Federal and Provincial legislation.



# Provincial Regulation

- **Environmental Assessment Act**
- **Fish Protection Act**
- **Health Act**
- **Wildlife Act**
- **Statistics Act**
- **Environmental Management Act**
- **Mines Act**
- **Mineral Tenure Act, Coal Act**
- **Mining Right of Way Act**
- **Pesticide Control Act**
- **Transportation of Dangerous Goods Act**
- **Environment and Land Use Act**
- **Waste Management Act**
- **Water Act**
- **Forest Act**
- **Forest Practices Code of BC Act**
- **Land Act**
- **Weed Control Act**
- Environmental Appeal Board Regulations
- Environmental Assessment Reviewable Projects Regulations
- Administrative Review and Appeal Procedure
- Scaling Regulation
- Timber Marking and Transportation Regulation
- Sewage Disposal Regulations
- Sanitary Regulations
- Streamside Protection Regulations
- Timber Harvesting Practices Regulation
- Environmental Data Quality Assurance Regulations
- Conditional Exemption Regulation
- Contaminated Sites Regulation
- Petroleum Storage and Distribution Facilities Storm Water Regulation
- Ozone-Depleting Substances and other Halocarbons Regulation
- Special Waste Regulation
- Spill Reporting Regulation
- Waste Management Permit Fees Regulation
- B.C. Dam Safety Regulations
- Water Regulation
- General Nuclear Safety and Control Regulations
- Guidelines for Coal Development
- Transportation of Dangerous Goods Regulations
- Open Burning Smoke Regulations
- Health Safety and Reclamation Code for Mines in BC
- Pesticide Control Act Regulation
- Safe Drinking Water Regulation

# Federal Regulation

- **Canadian Environmental Assessment Act**
- Canada Water Act
- Canada Wildlife Act
- Expropriation Act
- **Species at Risk Act**
- Canadian Environmental Protection Act
- National Fire Code of Canada 1995
- **Fisheries Act**
- Transportation of Dangerous Goods Act
- **Explosives Act**
- **Navigable Waters Protection Act**
- **Coast Guard Act**
- Nuclear Safety and Control Act
- Transport of Dangerous Goods Regulations
- Ozone-Depleting Substances Regulations
- Comprehensive Study list Regulations
- Exclusion list Regulations
- Inclusion List Regulations
- Migratory Birds Regulations
- Mine Metal Effluent Regulation
- Fisheries Regulations

# BC Aggregate Update



# BC Aggregate Update

- ☯ Worker safety and training
- ☯ Improving information for the public and industry
- ☯ Enhancing public input into permit reviews
- ☯ Resolving land use/zoning issues

# BC Aggregate Update

## New

- ✓ Web Page Re-Design
- ✓ Brochure
- ✓ Aggregate Management Principles
- ✓ Guide to Preparing a S&G Application

## Underway

- ✓ Health & Safety Handbook (**complete**)
- ✓ Health and Safety Program (APABC, EMPR, Construction Safety Network)
- ✓ Fraser Valley Aggregate Pilot Project



# Aggregate Operators Best Management Practices Handbook for B.C.

- Completed 2002.
- Intended as a general guide to assist operators.
- Operators should use their own judgement as to whether the practices set out in this Handbook are appropriate for any particular situation

## Steering Committee:

- Thom Sedun (chair) - Ministry of Energy & Mines
- Paul Allard - Aggregate Producers Association of British Columbia
- Oliver Baker - Ministry of Forests
- Rob Buchannan - Ministry of Transportation
- Ted Carlson - Aggregate Producers Association of British Columbia
- Jim Duckworth - City of Abbotsford
- Lloyd Gerbrant - Aggregate Producers Association of British Columbia
- Bob Hart - Ministry of Sustainable Resource Management
- John Heinonen - Fisheries & Oceans Canada
- David Ingelson - Land & Water British Columbia
- Bob Lapham - Regional District of Nanaimo
- Ken Lukawesky - Ministry of Transportation
- Barry McLean - Aggregate Producers Association of British Columbia
- Ken Nelson - Ministry of Forests
- Charles Newcombe - Ministry of Water, Land and Air Protection
- David Pow - Ministry of Energy & Mines
- Ed Regts - City of Abbotsford





Aggregate - Microsoft Internet Explorer provided by Shared Services BC

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail

Address http://142.32.39.78/subwebs/mining/Aggregate/default.htm

Ministry Home Government of British Columbia

**Programs & Services**

Ministry of Energy, Mines and Petroleum Resources

Ministry News Ministry Search Reports & Publications Site Map Contacts

**Aggregate**

Contents

HOME > Project Approvals > Aggregate

HOME

Contact Information  
Education & Careers  
Exploration  
Geoscience  
Health & Safety  
History of Mining in B.C.  
Legislation  
Mineral Statistics  
Mineral Titles  
Project Approvals  
Regional Offices  
Sustainability  
What's New in Mining

Sullivan Mine Report

MapPlace  
ARIS Assessment Reports  
MINFILE Mineral Inventory

External Links

Above: Sand from Polaris Minerals Corporation's Oroa Quarry is loaded onto a freighter bound for California.

- A Guide to the Permitting Process for Aggregate Operations in B.C.
- Application Forms
- Best Management Practices for Aggregate Operations in B.C.
- Health & Safety: A Practical Guide for Aggregate Operations
- Policy & Procedures
- Statistics (Construction Aggregates)
- Aggregate Operations in Your Community brochure (PDF)

British Columbia's aggregate industry produces over 45 million tonnes of sand, gravel and crushed stone every year. On today's market, the approximate annual value of these products is about \$295 million.

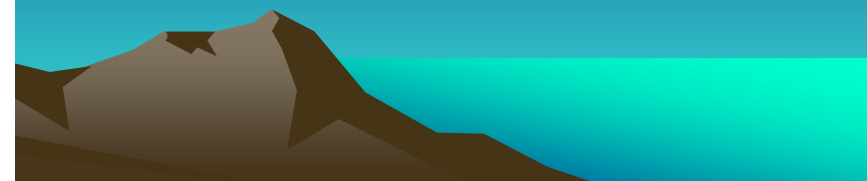
Sand, gravel and stone pits and quarries are regulated as mines under the *Mines Act*. The Ministry of Energy, Mines and Petroleum Resources (MEMPR) is the primary regulatory agency for aggregate operations in B.C.

Pits and quarries need to receive permits from MEMPR before they can begin operating, and the permitting process includes referrals to other government agencies, such as the Ministry of Environment. The process also accommodates public input.

The *Mines Act* regulates worker and public safety and environmental impacts. Land use concerns are not addressed in the *Mines Act* permitting process and therefore must be clarified by the local government.

Last Updated June 12, 2008

# Aggregate Page (Under Development)



# New Public Information Brochure

## Mines Act Permits

The Ministry of Energy, Mines and Petroleum Resources (MEMPR) is the primary regulatory agency for aggregate operations in B.C. Before issuing a permit under the *Mines Act*, the Chief Inspector of Mines must ensure that the applicant has thoroughly addressed issues related to the following:

- public and worker health and safety
- environmental impacts of the operation
- efficient extraction of the aggregate resource
- reclamation of the land and watercourses

## Site Inspections

Once an operation is permitted and in the production stage, MEMPR ensures that the operator is in compliance with the terms of its *Mines Act* permit by conducting regular site inspections. Large or sensitive sites are inspected more frequently than smaller or especially well-managed operations.

## Site Reclamation

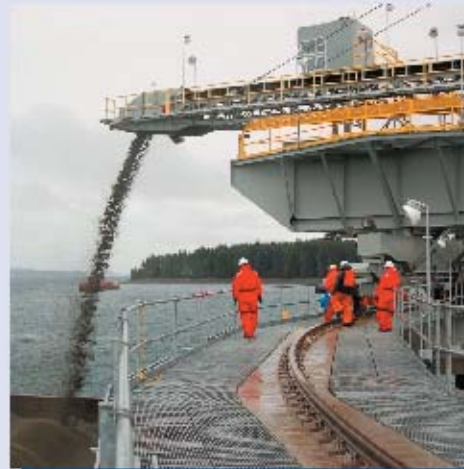
As a condition of their permits, pit and quarry operators are required to post security to ensure that mine sites will be reclaimed in an acceptable manner once operations have ceased. Returning mined land to a suitable end land use involves monitoring air and water quality, replacing topsoil, revegetation and ongoing land maintenance.

A *Mines Act* permit is not issued until a reclamation security deposit is received. This deposit is returned to an operator only after satisfactory reclamation has taken place.



## Aggregates and You

- Aggregate materials, which include sand, gravel and crushed stone, are essential to our way of life.
- Aggregate is the most abundant natural resource on the planet and is used everything from skyscrapers to tennis courts.
- Aggregate operations exist in or near almost all North American cities and towns.
- British Columbia's aggregate industry produces approximately \$285 million worth of sand, gravel and crushed stone annually.
- It takes about 20,000 m<sup>3</sup> of aggregate to construct 1 km of highway.
- Canadians consume over 10 tonnes of aggregate annually per capita.

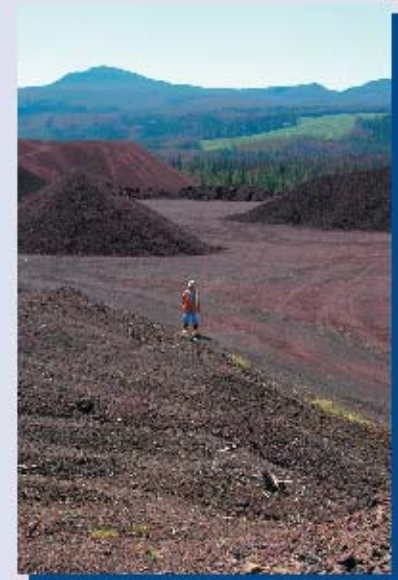


## Visit Us on the Web!

<http://www.em.gov.bc.ca/subwebs/mining>

# Aggregate Operations

## In Your Community



Ministry of  
Energy, Mines and  
Petroleum Resources

September 2008

# Guide Sent to All Operators and Workers



Ministry of  
Energy, Mines and  
Petroleum Resources

©2007 Province of British Columbia. All rights reserved. This material is owned by the Government of British Columbia and protected by copyright law. It may not be reproduced or redistributed with prior written permission of the Province of British Columbia.

Additional copies are available at no charge from the  
Ministry of Energy, Mines & Petroleum Resources.

