

# Aggregate Operators Best Management Practices Handbook

## **PART II**

### *Chapter 7* **Best Management Practices**

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## Introduction

This chapter of the handbook presents thirty-seven Best Management Practices (BMPs). The BMPs have been selected for specific application in aggregate operations. There are, however, many "general reference" BMPs that can also be useful. Three recommended websites are:

1. *Water Related BMP's in the Landscape*. Watershed Science Institute. URL <<http://www.abe.msstate.edu/csd/NRCS-BMPs/>>, October 2001
2. *Best Management Practices for Reclaiming Surface Mines in Washington and Oregon*. URL <<http://www.wa.gov/dnr/htdocs/ger/pdf/bmp.pdf>> [PDF, 7.6 Mb], June 2001, and
3. *Stormwater Management Manual for Western Washington, Volumes I-5* Washington State Department of Ecology, URL <<http://www.ecy.wa.gov/biblio/9911.html>>, June 2001 (scroll to the bottom of the page for links to volume 2-5).

Also see the "Additional BMP Websites" section at the end of this introduction.

## How to Choose BMPs

There are three ways to select a BMP from this handbook:

### 1. Refer to Table 7-1 and 7-2 BMP Module Reference Charts.

In these charts, BMPs are cross-referenced against Module topics (extraction, traffic, etc.). Table 7-1 organizes the BMP's into five thematic groupings (Stormwater Management, Erosion Control, Noise and Dust, Risk Management and Pollution Prevention), while Table 7-2 lists them alphabetically.

### 2. Review Topical Modules for Suggestions

Tables within the Chapter 5 modules suggest specific BMPs to address specific problems.

### 3. Flip Through the BMPs in Chapter 7

The BMPs in Chapter 7 all have a "USE" box in the upper right hand corner of the first page. They can be selected by simply looking for a "USE" box with an appropriate application.

## Additional BMP Websites

British Columbia Ministry of Water, Land and Air Protection. (2001): **Environmental Objectives, Best Management Practices and Requirements for Land Developments**. BC Environment, Vancouver Island Region, URL <[http://wapwww.gov.bc.ca/vir/pa/bmp\\_dev1.htm](http://wapwww.gov.bc.ca/vir/pa/bmp_dev1.htm)>, October 2001.

British Columbia Ministry of Water, Land and Air Protection. (2001): **Best Management Practices To Protect Water Quality**. Water Quality Branch, URL <[http://wapwww.gov.bc.ca/wat/wq/NPS\\_web\\_page/BMP\\_Compndium/BMP\\_Introduction/BMP\\_Home.htm](http://wapwww.gov.bc.ca/wat/wq/NPS_web_page/BMP_Compndium/BMP_Introduction/BMP_Home.htm)>, October 2001.

Chilibeck, B., Chislett, G. and Norris, G. (1992): **Land Development Guidelines for the Protection of Aquatic Habitat**; *Department of Fisheries and Oceans, and Ministry of Environment, Lands and Parks*, URL <<http://www-heb.pac.dfo-mpo.gc.ca/english/publications/PDF/guidelines/ldg.PDF>> [PDF, 1.5 Mb], June 2001.

Ciuba, S. and Austin, L. (2001): **Runoff Treatment BMPs**; in *Stormwater Management Manual for Western Washington, Volume V*; *Washington State Department of Ecology*, Publication 9915, URL <<http://www.ecy.wa.gov/biblio/9915.html>>, June 2001.

Cole, L., Smith, P., Wright, J. and Clough, R. (1999): **Controlling the Environmental Effects of Recycled and Secondary Production Good Practice Guidance**; *United Kingdom Department of the Environment, Transportation and the Regions*, URL <<http://www.planning.detr.gov.uk/recycled/practice/index.htm>>, June 2001.

Coulter, T.S. and Halladay, D.R. (1997): **Manual of Control of Erosion and Shallow Slope Movement**; *Ministry of Transportation and Highways*, Vancouver Island Highway Project.

Field, L.Y. and Engel, B.A. **Best Management Practices for Soil Erosion**; *Purdue University, Agricultural and Biological Engineering Department*, URL <<http://pasture.ecn.purdue.edu/AGEN521/epadir/erosion/asm521.html>>, October 2001.

Norman, D.K., Wampler, P.J., Throop, A.H., Schnitzer, E.F. and Roloff, J.M. (1997): **Best Management Practices for Reclaiming Surface Mines in Washington and Oregon**; *Washington State Department of Natural Resources Open File Report 96-2 and Oregon Department of Geology and Mineral Industries Open File Report O-96-2*, 128 pages, URL <<http://www.wa.gov/dnr/htdocs/ger/pdf/bmp.pdf>> [PDF, 7.6 Mb], June 2001.

O'Brien, E. (2001): **Minimum Technical Requirements**; *Stormwater Management Manual for Western Washington, Volume I*. *Washington State Department of Ecology*, Publication 9911, URL <<http://www.ecy.wa.gov/biblio/9911.html>>, June 2001.

Thomas, M., Editor (2000): **Controlling and Mitigating the Environmental Effects of Minerals Extraction in England Consultation Paper**; *Mineral Planning Guidance Note 11*. *United Kingdom Department of the Environment, Transportation and the Regions*, URL <<http://www.planning.detr.gov.uk/consult/mpg11/index.htm>>, June 2001.

United States Department of Agriculture and Mississippi State University. (1999): **Water Related BMP's in the Landscape**; *Watershed Science Institute*. Created for the *Natural Resource Conservation Service, United States Department of Agriculture* by the *Center for Sustainable Design Mississippi State University Departments of Landscape Architecture, Agricultural and Biological Engineering, and the College of Agriculture and Life Sciences*, URL <<http://www.abe.msstate.edu/scd/NRSC-BMPs/index.html>>, October 2001.