

SMALLER CAN BE BETTER

wallboard in the Lower Mainland in the foreseeable future.

Westroc first started manufacturing wallboard in East Vancouver in 1959, north of the Pacific National Exhibition site. The company outgrew the facility and purchased the Annacis Island plant in 1985 from Genstar.

While recycled gypsum is a small component of wallboard manufacturing at the present, it shows that the industry is indeed reacting to the public's demand for a more sensitive approach to environmental concerns.

Holnam

Limestone quarrying has been carried out on Texada Island, B.C. since the turn of the century, and the remains of pre-1900, vertical, stone-constructed lime kilns are still in evidence on the island. The last lime production was in the early 1960s at the Blubber Bay operation of what was then Gypsum Lime and Alabastine's Pacific Lime Division.



View from top of quarry toward quarry shop — mid-upper part of picture. Riprap boulders stockpiled for future use.

PHOTO COURTESY OF HOLNAM

Texada Island is located about 60 miles north of Vancouver in the Georgia Strait between Vancouver Island and mainland B.C. It is 30 miles long in a northwest, southeast direction and is four to five miles across.

Ideal Cement Company Ltd., has been operating their Rock Products limestone quarry on Texada since 1957. In 1990, a corporate change resulted in Ideal

Cement becoming Holnam West Materials Ltd.

Holnam is a wholly owned Canadian subsidiary of Holnam Inc., with its head office based in Dundee, Michigan, and it is a member of the world-wide Holderbank Group of companies which has locations in 24 countries on five continents. Holderbank is Swiss company with its head office in Holderbank, Switzerland.

Holnam's Texada operation has been shipping limestone and other rock products at a rate in excess of 2.3 million tonnes a year, and will continue to do so in the foreseeable future, says general manager, Pete Stiles.

"Market possibilities offshore are being researched for limestone products. A small quarry has been opened up, producing a high specification white limestone, and



CROWN TIRE SERVICE LTD.





**FEATURING
BRIDGESTONE**



Off-Road Tires
for Haulage Trucks,
Loaders, Dozers,
Shuttle Trucks for
Open Pit and
Underground Mines.



FOR FURTHER INFORMATION CALL OR WRITE

<p>B.C. & Yukon 666 Lougheed Hwy. Coquitlam, V3K 3S6 TEL: 936-0461 FAX: 936-1798</p>	<p>Alberta, Manitoba, Saskatchewan 14440-123rd Ave. Edmonton, T5L 4S8 TEL: 453-5802 FAX: 451-1040</p>
--	---

FOR THE MINING SPECIALISTS

ORIGINAL

SMALLER CAN BE BETTER

this product definitely has offshore possibilities," Stiles says.

The company's upgrading of the deep-sea port to handle coal has opened the door for other transshipping ventures and stone export possibilities. The port will handle 400 000 tonnes of coal in 1991 for export to Japan and other Pacific Rim countries.

From a relatively modest beginning, Holnam's Texada operations have grown, making it a major supplier of limestone, crushed rock, and riprap for the markets of British Columbia and the American Northwest.

The majority of the limestone on Texada is found in the northern third of the island.

The limestone can be described as medium to dark grey, even-textured, and cryptocrystalline. Minute irregular veinlets containing minor amounts of silica and pyrite are present, but are not readily apparent to the eye.

"This high quality, chemical grade limestone is being used by pulp mills, smelters, and in the manufacture of cement and high purity, chemical grade lime," Stiles points out.

The present quarry covers an area of approximately 100 acres, with limestone depth potential of more than 700 feet where it lies on the Karmutsen volcanic basement. The volcanics have a similar dip and strike generally to the limestone.

Down-the-hole drilling provides the boreholes for blasting with ANFO — an acronym for ammonium nitrate-fuel oil mixtures — which combines prills (or pellets originally developed for the fertilizer market) of ammonium nitrate with number-two fuel oil to make one of the mining industry's most efficient high explosives since it first came into use in the mid '50s.

A smaller, track-type drill is used for pioneering work. Bench heights average 33 feet. Front-end loaders and trucks feed an impact crusher in closed screening circuit at a capacity rate of 900mt an hour to produce a minus two-inch product. This product is stockpiled and shipped to cement plants or to aggregate users in the Lower Mainland. Chemical grade limestone is crushed in the same system with the two-inch minus product being processed further on two 8' x 20' double decked screens.

The screened products are stockpiled over a reclaim tunnel ready for loading. All crushed limestone is shipped on open barges. The reclaiming and barge loading system has a capacity of 2000mt an hour.

Waste rock is stockpiled for further treatment or direct shipment as fill. Large boulders produced during quarrying are stockpiled and segregated to supply the riprap markets on the coast, says Stiles.

"Company holdings, both owned and leased, ensure a continuing supply of limestone for construction and industry for many decades to come," he adds.

BHP-UTAH MINES LTD.

BHP-Utah Mines Ltd., a wholly-owned subsidiary of Broken Hill Proprietary Company of Australia, operates the Island Copper Mine at Port Hardy, B.C., has a 49% interest in the Redstone Nickel mine near Timmins, Ontario, and an active exploration program throughout Canada.

The Company presently is conducting an extensive exploration program on the claim block surrounding the mine to assess the potential for additional reserves. The mine's annual production currently includes 280,000 tons of

copper concentrate and 5,000 tons of molybdenum concentrate, plus significant amounts of gold, silver and rhenium.

A staff of exploration geoscientists based in Vancouver, Toronto and Timmins, Ont., are engaged in active exploration programs in seven of the provinces and territories. The company solicits joint venture opportunities and funds both base metal and gold search programs at the reconnaissance and project stage.

BHP-Utah Mines Ltd.
Western Canada Exploration
1600 - 1050 West Pender St.
Vancouver, BC V6E 3S7
Tel. (604) 683-6921
Fax (604) 682-2667

BHP-Utah Mines Ltd.
Island Copper Mine
P.O. Box 370
Port Hardy, BC V0N 2P0
Tel. (604) 949-6326
Fax (604) 949-6060

BHP-Utah Mines Ltd.
Eastern Canada Exploration
25 Adelaide Street East, Suite 900
Toronto, ON M5C 1Y2
Tel. (416) 368-3884
Fax (416) 365-0763

131 VIDEOS!

Placer Mining

EXPLORATION • OPERATION
EQUIPMENT • FINANCING

Geology

CORDILLERAN DEPOSITS -
ORE DEPOSITS, TECTONICS
METALLOGENY - 28 hours!

Remote Sensing

EXPLORATION • ENGINEERING
MINERAL APPLICATIONS - RADAR

New For 1991: GIS/LIS

Write for free catalogue:
A M Productions Inc. Dept. C
255A East First Avenue, Vancouver, BC
V5T 1A7 or call (604) 875-9927

••• Broadcast Quality Guaranteed •••

HOLNAM WEST MATERIALS LTD.

ROCK PRODUCTS DIVISION

Box 160, Van Anda, B.C., V0N 3K0

BRITISH COLUMBIA
GEOLOGICAL SURVEY

C.I.M.M. DISTRICT 6 MEETING

Texada Island Tour - October 1, 1992

ORIGINAL

Holnam West Materials limestone quarry has been in operation for 35 years supplying the cement, paper, and construction industries with quarried stone. From a beginning of 25,000 tonnes per year the quarry has grown 100-fold and will ship by barge over 2,500,000 tonnes of assorted products in 1992. The bread and butter customers are three cement plants - two in Delta-Richmond and one in Seattle. Chemical grade limestone (+97% CaCO₃) is produced for pulp mills and lime plants. White limestone is crushed and washed for a customer supplying the paint, plastics and filler industries. Rip-rap, fill, road base and railroad ballast are also on the list of products.

Coal from the Quinsam Mine near Campbell River is received by barge, unloaded and stockpiled, and reloaded to ocean-going vessels. Present projections of three quarters to one million tonnes per year can be handled through this facility.

Employees	Hourly	60
	Salary	<u>11</u>
		71

Mobile Equipment

Front End Loaders to 12cy	7
85 ton Trucks	5
50 ton Trucks	7
35 ton Trucks	3
Bull Dozer	1
Grader	1
Water Truck	1
4" Drill	1
6½" Drill	1

Crushing Plants

Jeffrey 560 Impactor	1
Missouri-Rogers Impactor	1
Traylor Jaw Crusher	1
Kue-Ken Jaw Crusher	1

Load Out Facilities

Barge Loader to 2000 tph	1
Barge Loader to 1000 tph	1
Barge Ramp 100 ton cap.	1
Shiploader to 1200 tph	1



