

NGU Report 99.055

Norway's coastal aggregates.  
Current production in 1998 and potential.

May 1999

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Summary: The Geological Survey of Norway is in the process of making out an inventory of hard rock aggregate deposits in coastal Norway. This report contains a catalogue of Norwegian coastal quarries at present in production and potential production areas along the coast of southern Norway. 9.1 million tons of aggregates were exported to Europe in 1998 and ca. 1.7 million tons was used in the offshore industry (continental shelf).			
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Pukkregister	Database	Fagrapport	

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## INTRODUCTION

The Norwegian production in 1998 of hardrock aggregates was ca. 37 million tons and sand/gravel 26 million tons.

9.1 million tons of aggregate and 0.8 million tons of sand and gravel were exported with an export value of NOK 481 million from 22 producers from Halden in Østfold county to Sogn and Fjordane (statistics compiled by NGU and the producers), page 5 - 7. The export of hard rock aggregate represents 25 % of the total production. The majority of the quarrying companies are relatively small, catering essentially for local needs. There are, however, a number of major players including Oster Pukk og Grus A/S, NorStone, A/S Veidekke, Rieber & Søn ASA Fjordstein A/S, Halsvik Aggregates A/S and Franzefoss Bruk A/S. These companies each have an annual production in the order of 1-2 million tons. The largest individual aggregate quarry (gneiss) owned by Norsk Stein A/S had a production of approx. 2.2 million tons in 1998. The offshore production of aggregates in 1998 mostly to Norwegian sectors was 1.7 million tons. The sand- and gravel export is from three quarries in Rogaland county.

Norway is probably northern Europe's principal **hardrock** country being composed almost entirely of Precambrian and Palaeozoic igneous and metamorphic rocks. Norway has a long, indented and rugged coastline where a considerable variety of rocks suitable for aggregate production are well exposed. Deep-water anchorage, low tidal range and a well-developed infrastructure allow for planning of harbour facilities for medium-large size bulk carriers. Norway has an attractive investment and taxation climate and overseas investment is encouraged. National and local authorities are aware of the potential for the development of large coastal quarries (super-quarries) designed for the production and export of rock aggregates. The Geological Survey of Norway (NGU) is undertaking a number of investigations of potential coastal sites for such quarries, so that local government planners, can classify such sites for future development.

NGU is planning to map all potential coastal rock units for which environmental, topographic and transport criteria would allow quarrying from the year 2003.

The next report will come in February/Mars 2000.

Trondheim, 20th. Mars 1999



Peer-Richard Neeb  
Project Manager  
Construction materials

# BEDROCKMAP OF NORWAY with important aggregate deposits



### Legend

#### PERMIAN ROCKS (OSLO REGION) (250 to 290 million years)

- Nordmarkite, larvikite, granite
- Basalt, rhombeporphyry

#### DEVONIAN ROCKS (350 to 400 million years)

- Sandstone, conglomerate

#### CALEDONIAN ROCKS (400 to 650 million years)

- Granite, trondhemite
- Gabbro, anorthosite, amphibolite
- Schist, micaceous slates
- Greenstone
- Sandstone, schist
- Marble

#### PRECAMBRIAN ROCKS (BASEMENT) (600 to 2900 million years)

- Granite
- Gabbro, anorthosite, amphibolite
- Basalt, rhyolite
- Sandstone, micaceous schist
- Gneiss, migmatite

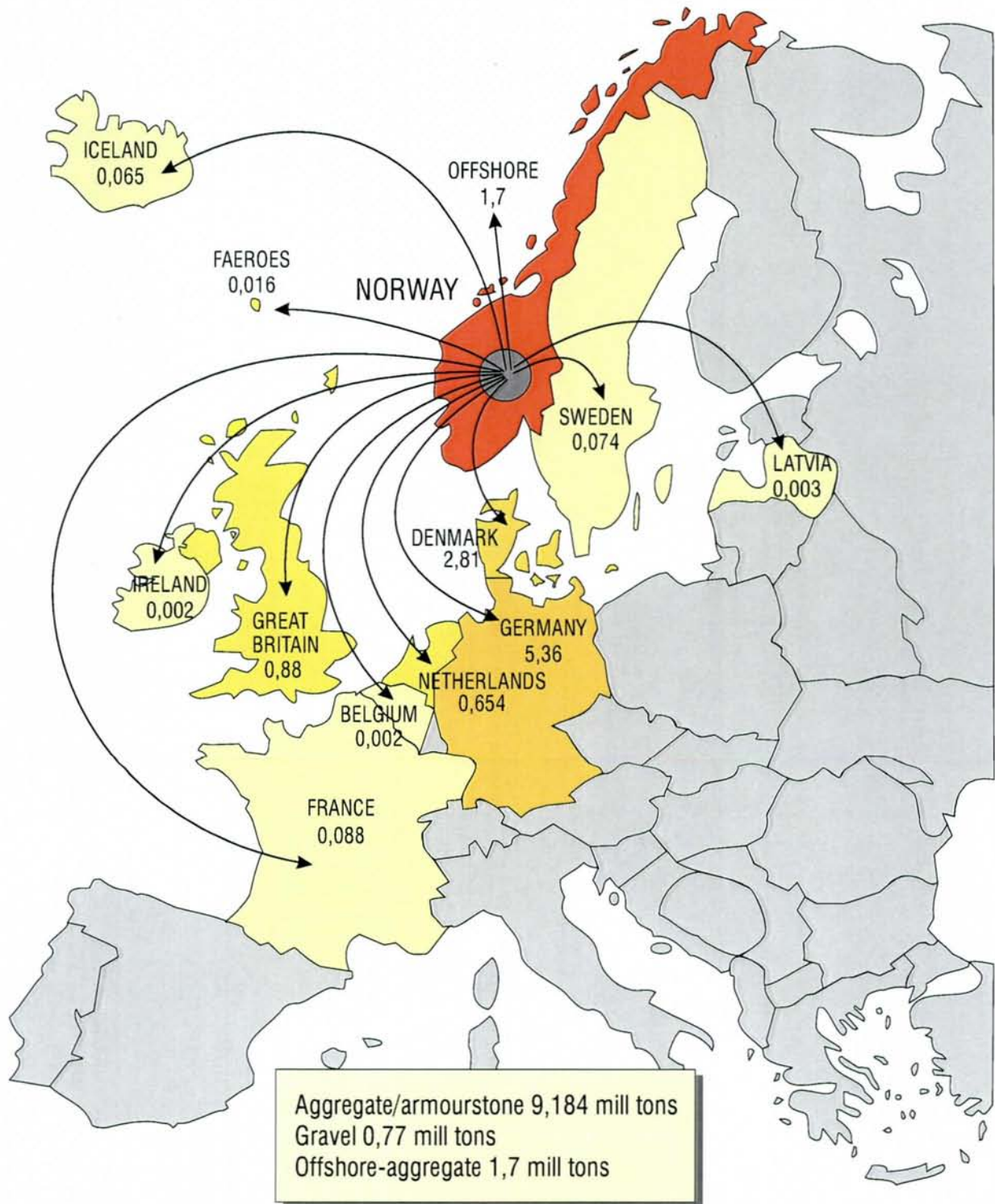
#### IMPORTANT NORWEGIAN AGGREGATE DEPOSITS IN PRODUCTION

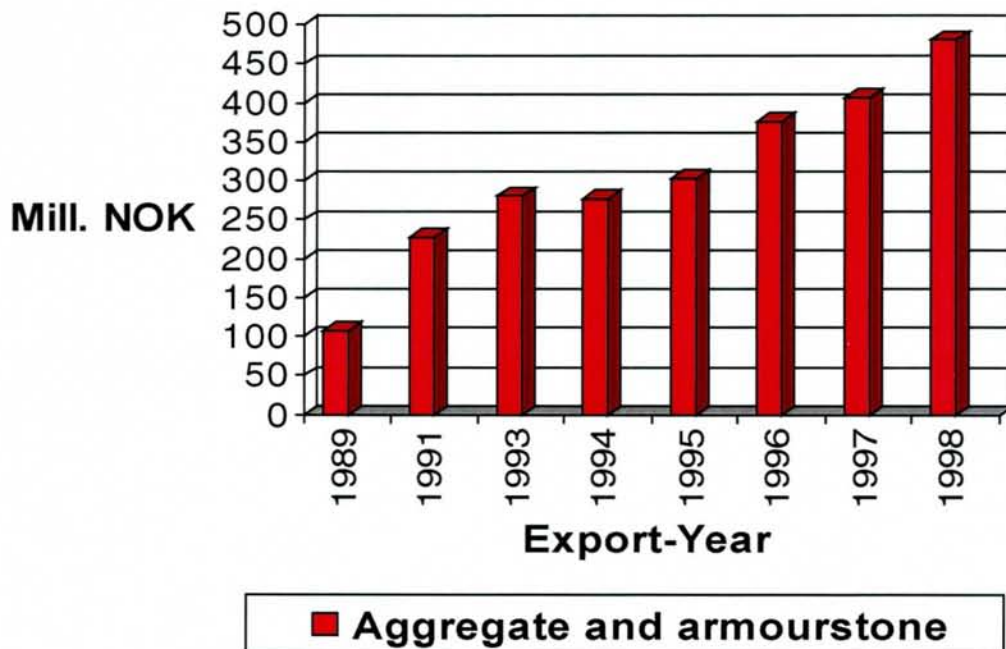
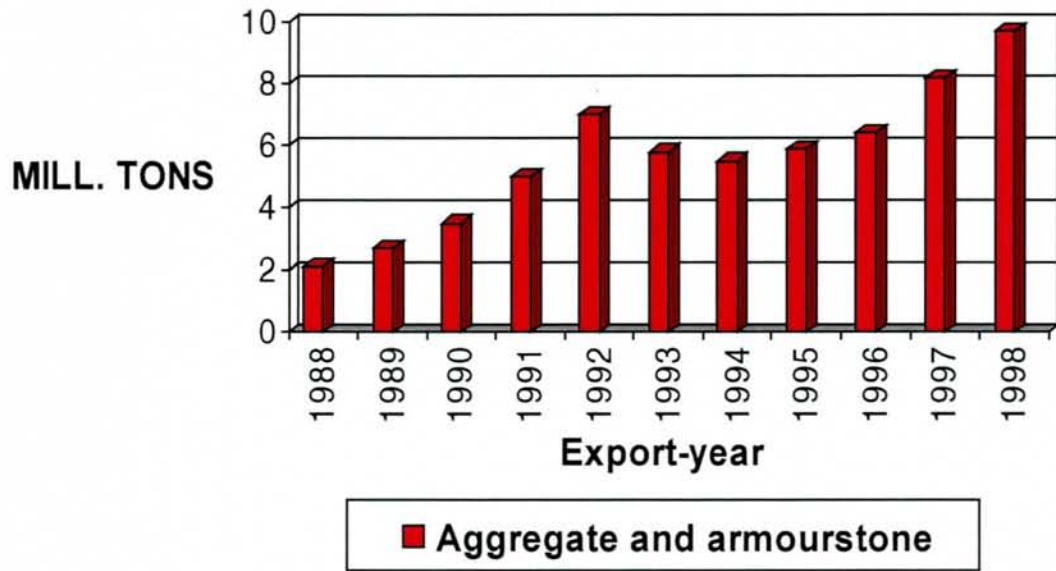
- Aggregate production
- Aggregate for export in 1998/99

# NORWEGIAN AGGREGATE FOR EXPORT IN 1998

Total production 11,65 mill tons aggregate and 0,8 mill tons gravel

9,10 mill tons was exported to the Europe and 1,7 mill tons offshore





NORWEGIAN QUARRIES AND POTENTIAL AREAS ALONG THE COAST OF SOUTH  
 NORWAY. HARD ROCK AGGREGATES AND ARMOURSTONE.  
 NUMBER REFERENCE TO ENCLOSED MAPS

Østfold County

Nr. Commune	Production place	Export today	Contact person	Bedrock	Telephone	Fax-number
0104-501 Moss	Moss pukkverk		Knut E. Skolt	Gabbro	69 25 13 29	69 25 04 86
0105-501 Sarpsborg	Sarpsborg pukkverk		Knut E. Skolt	Gneiss-granite	69 25 13 29	69 25 04 86
0101-501 Halden	AS Veidekke avd. Borg Pukkverk,Sauøya- Halden Postboks 701580 Rygge	x Closing 99/00	Lars Hovland	Gneiss-granite	69 18 15 02	69 18 12 82
0101-xxx Halden	Brekke Iddefjorden Franzefoss Bruk A/S Post53 Rud	No exsport - 98	Erik Sørensen	Granite	67 15 20 00	67 15 23 98
0101-xx Halden	NorStone as, Svingen		Terje Holt	Gneiss	69 19 53 61	69 19 59 54

Buskerud County

Nr. Commune	Production place	Export today	Contact person	Bedrock	Telephone	Fax-number
0602-501 Drammen	Kobbervikdalen Pukkverk Holmestrandvn. 117 3000 Drammen		Rune Isaksen	Granite	32 81 88 10	32 81 88 11



## Vestfold County

Nr. Commune	Production place	Export today	Contact person	Bedrock	Telephone	Fax-number
0709-511 Larvik	Rieber & Søn ASA Fjordstein avd Hedrum- og Tjølling	x	Arne Nicander	Syenite	33 11 11 45	33 11 13 33
709-501 0709-xxx	Pukkverk, Postboks2073, 3255 Larvik Svartbukt	Potential		Syenite		
0702-505 Holmestrand	AS Veidekke Himberg Pukkverk 3175 Ramnes	x	Steinar Frellumstad	Syenite	33 39 65 54	33 39 51 95
0713-508 Sande	Sando Kalk og Pukk- servise AS		Nils Chr. Gevelt	Carbonate	32 85 09 30	32 85 20 56
0711-506 Svelvik	Juve pukkverk A/S, 3060 Svelvik	x	Guri Olsen	Granite	33 77 20 15	

## Telemark County

Nr. Commune	Production place	Export today	Contact person	Bedrock	Telephone	Fax-number
0806-501 Skien	Franzefoss Skien AS Postboks 53 1351 Rud	x	Erik Sørensen Terje Bø	Gneiss	67 15 20 00	67 15 20 01
0815-509 Kragerø	Franzefoss Bruk A/S Vallberg 3770 Kragerø	x	Erik Sørensen Postboks 53 Rud	Gabbro	67 15 20 00 35 98 10 22	67 15 23 98 35 98 26 89

## Aust-Agder County

Nr. Commune	Production place	Export today	Contact person, pot.area	Bedrock	Telephone	Fax-number
0901-506 Risør	Franzefoss Bruk A/S Ravneberget 4990 Søndeland		Erik Sørensen Postboks 53 Rud	Gabbro	37 15 61 87 67 15 20 00	37 15 62 73 67 15 23 98
0904-516 Grimstad	Landvik pukkverk Postboks 481 4801 Arendal		Oddvar Madsen	Gabbro	37 09 45 55	
0906-502 Arendal	Klodeborg pukkverk Postb. 1701, Myrene 4801 Arendal		Oddvar Madsen	Gneiss	37 09 45 55	37 09 49 72

## Vest-Agder County

Nr. Commune	Production place	Export today	Contact person, pot.area	Bedrock	Telephone	Fax-number
1001-508 Kristiansand	Ringknuten pukkverk A/S Postboks 1121 Lundsiden 4602 Kristiansand S		Karsten Reme	Granite/ amphibolite	38 09 70 40	38 09 72 08
1029-xxx Lindesnes	AS Veidekke - Båly Lindesnes kommune	x	Lars Hovland	Gneiss/granite	69 18 15 02 90 02 08 43	69 18 12 82

## Rogaland County

Nr.	Commune	Production place	Export today	Contact person	Bedrock	Telephone	Fax-number
1101-501 1101-502	Eigersund	K.S. Norwegian Edelsplit 4365 Hellvik/Hegrestad	x	Anders Hovland	Anorthosite	51 46 55 13 / 51 49 68 77	51 49 66 54
1101-503	Eigersund	Veidekke ASA Hellvik Pukkverk, Eigersund Postboks 70 1580 Rygge	x	Lars Hovland	Anorthosite	69 18 15 02	69 18 12 82
1111-501	Sokndal	Rieber & Søn ASA Fjordstein avd Rekefjord 4380 Hauge i Dalane	x	Geir Berg	Anorthosite/ Norite	51 47 73 00	51 47 62 61
1134-501	Suldal	Norsk Stein A/S Postboks 169 4230 Sand,	x	Vigleik Sirmes Per Nerheim	Gneiss	52 79 67 81	52 79 67 93
1122-501	Gjesdal	NorStone a.s NorStone Dirdal 4335 Dirdal	x	Bjarne Bersagel	Gneiss	51 63 61 00	51 67 61 01
1130-501	Strand	NorStone a.s NorStoneTau 4120 Tau	x	Bjarne Bersagel	Mylonite Quartz diorite	51 63 61 00	51 67 61 01
1146-506	Tysvær	Amrock A/S Espevik,5562 Hinderåvåg Tysvær	x	Hovard Apeland	Granite	52 77 89 44	52 77 89 33
1154-502	Vindafjord	Knapphus knuseverk Toraneset Øvre Vats 5576		Svein Ove Tyssebotn	Granite	53 76 39 16	

## Rogaland County - Potential deposit of aggregate

Nr.	Production place		Bedrock	Telephone	Fax-number
1103-503	Ådnanesnuten Strand kommune	Potential	Augen gneiss		
1141-501	Sørevågen Finnøy kommune	Potential	Gneiss		
1145-501	Sønnaland Bokn kommune	Potential	Gneiss		
1146-503	Ramsvika Tysvær kommune	Potential	Gneiss		
1134-503	Ersdal Suldal kmmune	Potential	Gneiss		
1154-xxx	Raunes Vindafjord kommune	Potential	Gneiss	53 76 12 00	53 76 05 20
1111-504	Sokndal-Jøssingfjord Noran A/S	Potential quarry	Anorthosite	66 78 75 65 Steinar Melgren	66 78 72 67
1111-503	Hauge i Dalane, Sokndal Titania a/s	Potential	Anorthosite	51 47 80 00 Ragnar Hagen	51 47 80 10

## Hordaland County

Nr. Commune	Production place	Export today	Contact person	Bedrock	Telephone	Fax-number
1247-501	NorStone a.s NorStone Askøy 5328 Herdla	x	Tore Dale Bjarne Bersagel	Mylonite	56 14 67 90 51 63 61 00	56 14 68 10 51 67 61 01
1263-501 Lindås	Eikefet pukkverk Oster pukk og sand A/S Ø. Muralm. 1, 5000 Bergen	x	Jostein Gjesdal	Granite-gneiss	55 90 12 20	55 90 12 22
1246-xxx Fjell	Sotra pukk A/S, Ågotnes	x	Jostein Gjesdal	Granite-gneiss	55 90 12 20	55 90 12 22
1224/1228 xxx/xxx Kvinnherad/ Odda	Joba Stone A/S Postbox 200, 5601 Norheimsund	x	Jurjen Gravendeel	Granite-gneiss	56 55 60 56	56 55 60 57

## Hordaland County - Potential deposit of aggregate

Nr.	Place		Bedrock	Telephone	Fax-number
1211-502	Timpeltut, 5590 Etne Etne kommune	Potential	Gabbro	53 75 62 11 Mr Vestbø	53 75 63 55
1222-504	Svartasmoget, SIM, 5410 Sagvåg Fitjar kommune	Potential	Granite	53 45 78 50 Terje Gilje	53 45 78 60
1222-xxx	Gabbro Stone, Rauholmen box 344, 546224 Varnersberg, Sverige	Potential	Gabbro	467086640955 Arvid Andersen	
1222-xxx	Landasåtane, 5419 Fitjar Fitjar kommune	Potential	Amphibolite	53 49 71 01 Fitjar kommune	53 49 73 97
1227-502	Herand, Hardanger Rock Company, Postboks 22, Jondal Jondal kommune	Potential	Gneiss-granite	91 10 70 25 70 14 22 60 Steinar Fylling	70 14 00 23
1245-xxx	Sund Granitt AS, Nova Maritime Service A/S Postboks 3703, 5033 Fyllingsdalen Lundaneset, Sund kommune	Potential	Gneiss-granite	55 12 35 50 Jan Johnsen	55 12 48 90
1266-xxx	Eikemo Steinbrot Masfjorden kommune	Potential	Gneiss	56 36 51 00 Tore Svendsen	56 36 51 05
1263-xxx	Hodna, 5110 Isdalsstø Lindås kommune	Potential	Gabbro	56 35 05 55	56 35 28 00
1246-xxx	Vindenes, Aktivest, Postboks 244, 5353 Straume, Fjell kommune	Potential	Gneiss	56 32 0055 Harald Smedal	56 32 01 60
1241-xxx	Matland, 5640 Eikelandsosen Fusa kommune	Potential	Gneiss	56 56 11 00 Fusa kommune	56 58 13 38
1223-xxx	Steinsåsen, 5685 Uggdal Tysnes kommune	Potential	Quartzdiorite	53 42 22 22	53 43 21 81
1216-xxx	Ålfjorden, 5520 Sveio Sveio kommune	Potential	Gneiss-granite	53 74 01 00 Sveio kommune	52 74 00 96
1216-xxx	Mjuk, 5520 Sveio Sveio kommune	Potential	Gneiss-granite	53 74 01 00 Sveio kommune	52 74 00 96
1214-xxx	Vardåsen, 5580 Ølen Ølen kommune	Potential	Granite	53 76 81 66 Ølen kommune	53 76 82 52

## Sogn og Fjordane County

Nr. Commune	Production place	Export today	Contact person	Bedrock	Telephone	Fax-number
1411-504 Gulen	Hallsvik Aggregates A/S, Slørvågen, 5960 Dalsøyra	x	Lars Hellandsjø	Gneiss	57 78 38 40	57 78 38 76
1421-539 Aurland	Gudvangen stein, Bryalii 153, 5700 Voss	x	Sigmund Bjørke	Anorthosite	56 52 34 65 94 68 25 20	56 52 34 61
1424-501 Årdal	Årdalitt A/S Offerdal, 6146 Åheim		Henning Hansen	Trondhemite	70 02 43 22	
1413-504 Hyllestad	Hyllestad Pukk A/S 6957 Hyllestad Molde Pukk A/S Nicolaysen Holding, Haakonsvern vn. 63, 5071 Loddefjord Bønes, Kværnhovvika	(x) 1998	Leidvin Hjartholm	Trondhemite/ quartzdiorite white granite	57 78 23 06 57 78 88 63 95 16 60 11	57 78 23 07
1433-504 Naustal	Fjordblokk A/S Engebø, 6146 Åheim	x	Henning Hansen	Eclogite	70 02 43 22	70 02 43 10

## Sogn og Fjordane County - Potential deposit of aggregate

Nr.	Place		Bedrock	Telephone	Fax-number
1412-501	West Stein A/S, Postboks 258 2381 Brumundal Daløy, Solund kommune	Potential	Conglomerate	62 36 84 55 Geir Skjelstad	62 36 86 03
1438-xxx	Gulefjord-Svelgen Bremanger kommune	Potential	Sandstone	NGU	
1438-504	Gotraneset - Skipperdalen Bremanger kommune	Potential	Trondhemite	NGU	
1401-xxx	Durmålhornet Flora kommune	Potential	Sandstone		

## Møre og Romsdal County

Nr. Commune	Production place	Contact person	Bedrock	Telephone	Fax-number
1516-505 Ulstein	Kvalnes pukkverk Ulstein Betongindustri A/S 6072 Haddal		Gneiss/granite	70 01 60 04	
1517-505 Hareid	Hjørungavåg knuseverk 6065 Ulsteinvik	Johs. Thoresen	Gneiss/granite	70 01 15 92	
1504-501 Ålesund	Veidekke divisjon Asfalt Ålesund 6019 Ålesund	Magne Mørkedal	Gneiss	70 17 54 00 94 73 63 76	70 17 54 10
1504-502 Ålesund	Ufo pukkverk Nodest vei A/S 6010 Spjelkavik	Tore Rødal	Gneiss	70 14 19 00	
1523-501 Ørskog	Skjøholt pukkverk 6240 Sjøholt	Karl Vaksvik Vaksvik Maskin	Dioritic-Gneiss	70 27 30 52	70 27 31 02
1543-522 Nasset	Veidekke divisjon Asfalt Raudsand 6462 Raudsand	Magne Mørkedal	Gneiss/granite	71 23 31 00	71 23 31 02

## Møre og Romsdal County - Potential deposit of aggregate

Nr.	Place		Bedrock	Telephone	Fax-number
1523-502	Viset Ørskog kommune	Potential	Gabbro		
1547-502	Hollingen Aukra kommune	Potential	Gneiss-granite		
1543-501	Breidvik Nasset kommune	Potential	Gabbro		
1560-503	Hammaren Tingvoll kommune	Potential	Gabbro		
1566-501	Durmålhaugen Tingvoll kommune	Potential	Gneiss/granite		
1560-501	Settem Sumadal kommune	Potential	Amphibolite/- tonalite		

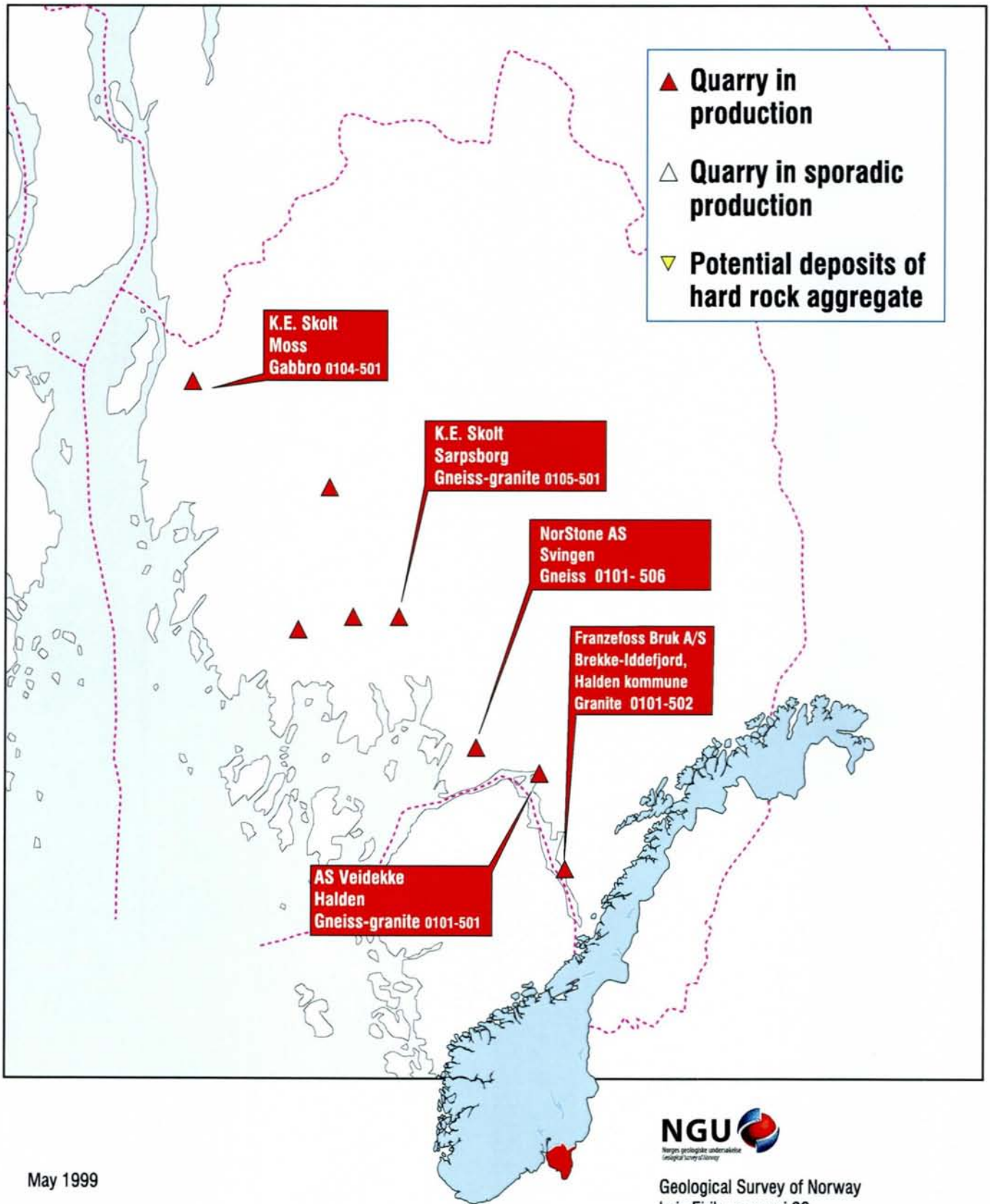
## Sør-Trøndelag County

Nr. Commune	Production place	Contact person	Bedrock	Telephone	Fax-number
1617-501 Hitra	Hitra Bergverk 7240 Fillan	Åge Kaasbøll	Granodiorite	72 44 14 85	72 44 15 04
1621-501 Ørland	Veidekke Divisjon asfalt Ottersbo pukkverk 7140 Opphaug	Ketil Oksvold	Mylonite	73 82 35 00 72 52 27 80	72 52 10 80
1627-505 Bjugn	Bjugn Pukkverk, Valsneset Eeg-Henriksen Anlegg A/S Liaveien 8, 5090 Nyborg	Torkjell Eskeland	Gneiss	55 18 54 00	55 18 76 40
1633-501 Osen	Nord-Fosen pukkverk 7740 Steinsdalen	Reidmund Melhus	Granodiorite	72 57 78 90 72 57 78 62	72 57 78 68

## Sør-Trøndelag County - Potential deposit of aggregate

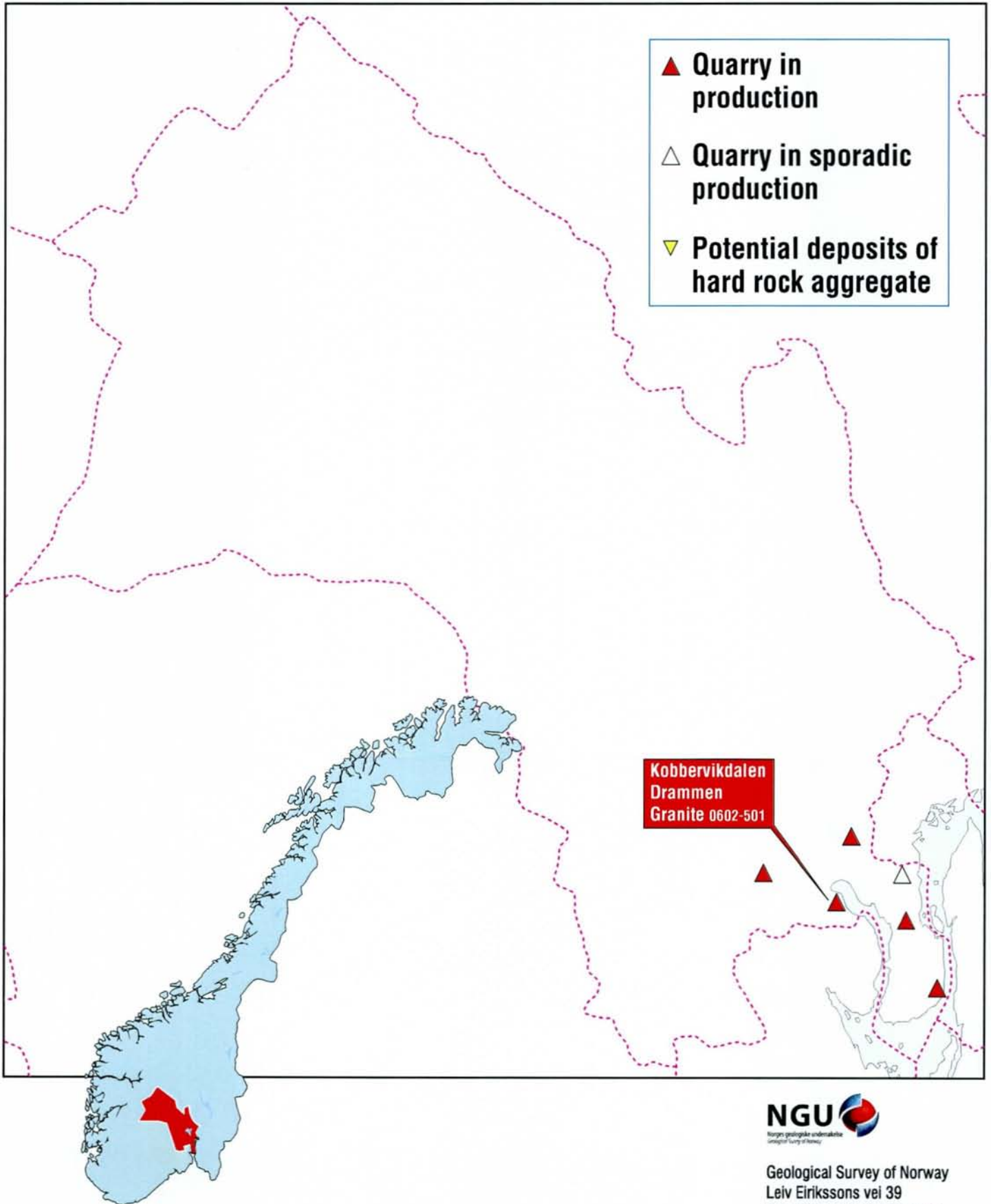
Nr.	Place		Bedrock	Telephone	Fax-number
1617-515	Korskammen Hitra kommune	Potential	Granodiorite		
1630-506	Raudhammaren Åfjord kommune	Potential	Granite/amphibolite	NGU	
1633-502	Langstrandheia Osen kommune	Potential	Granite-gneiss	NGU	
1612- 506/507	Gjøbergsheia/Kammen Hemne kommune	Potential new	Gneiss	NGU	
1613-505	Stokkafjellet Snillfjord kommune	Potential new	Gneiss	NGU	

# QUARRIES AND POTENTIAL DEPOSITS OF HARD ROCK AGGREGATE IN ØSTFOLD COUNTY



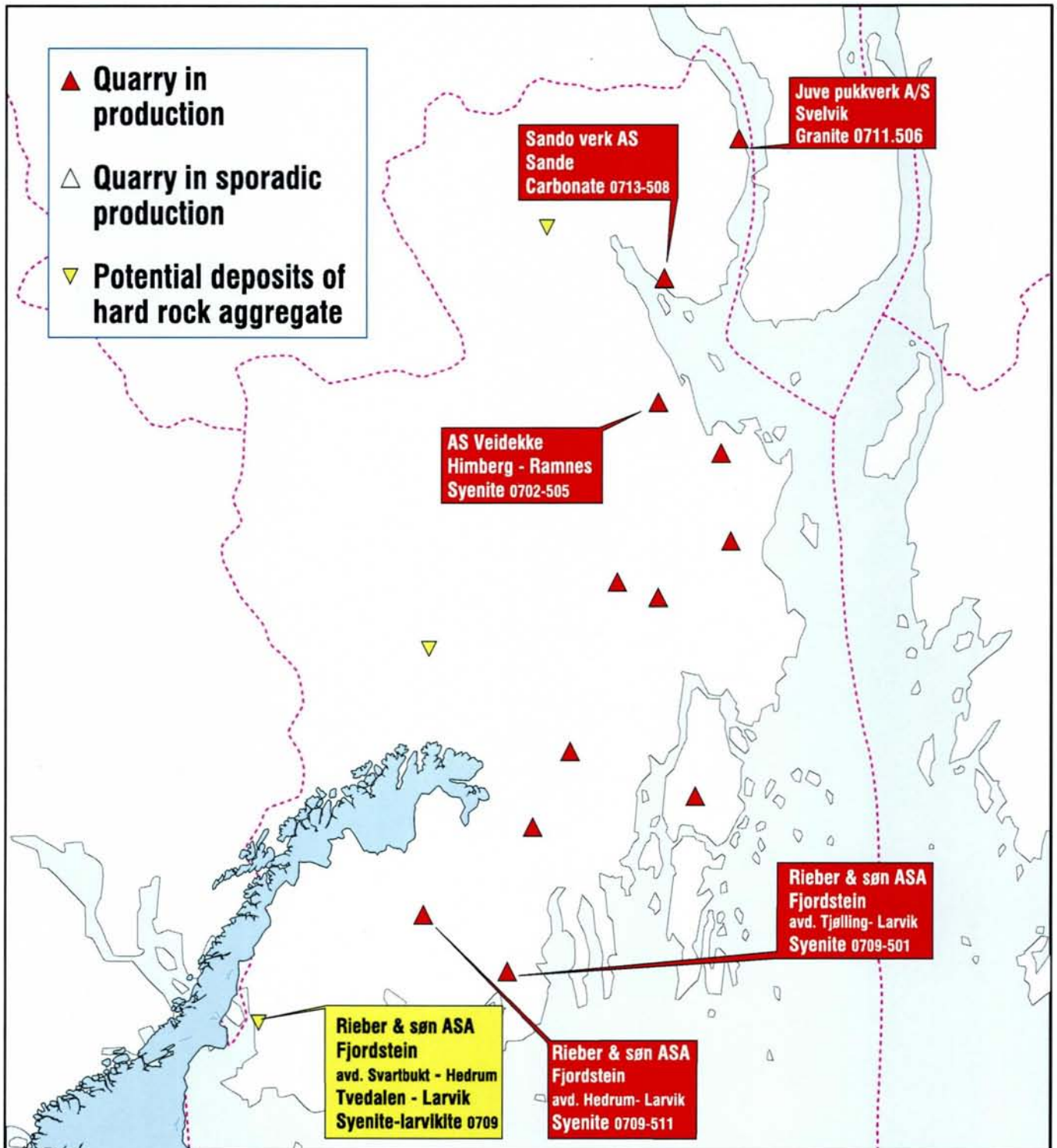
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# QUARRIES AND POTENTIAL DEPOSITS OF HARD ROCK AGGREGATE IN BUSKERUD COUNTY





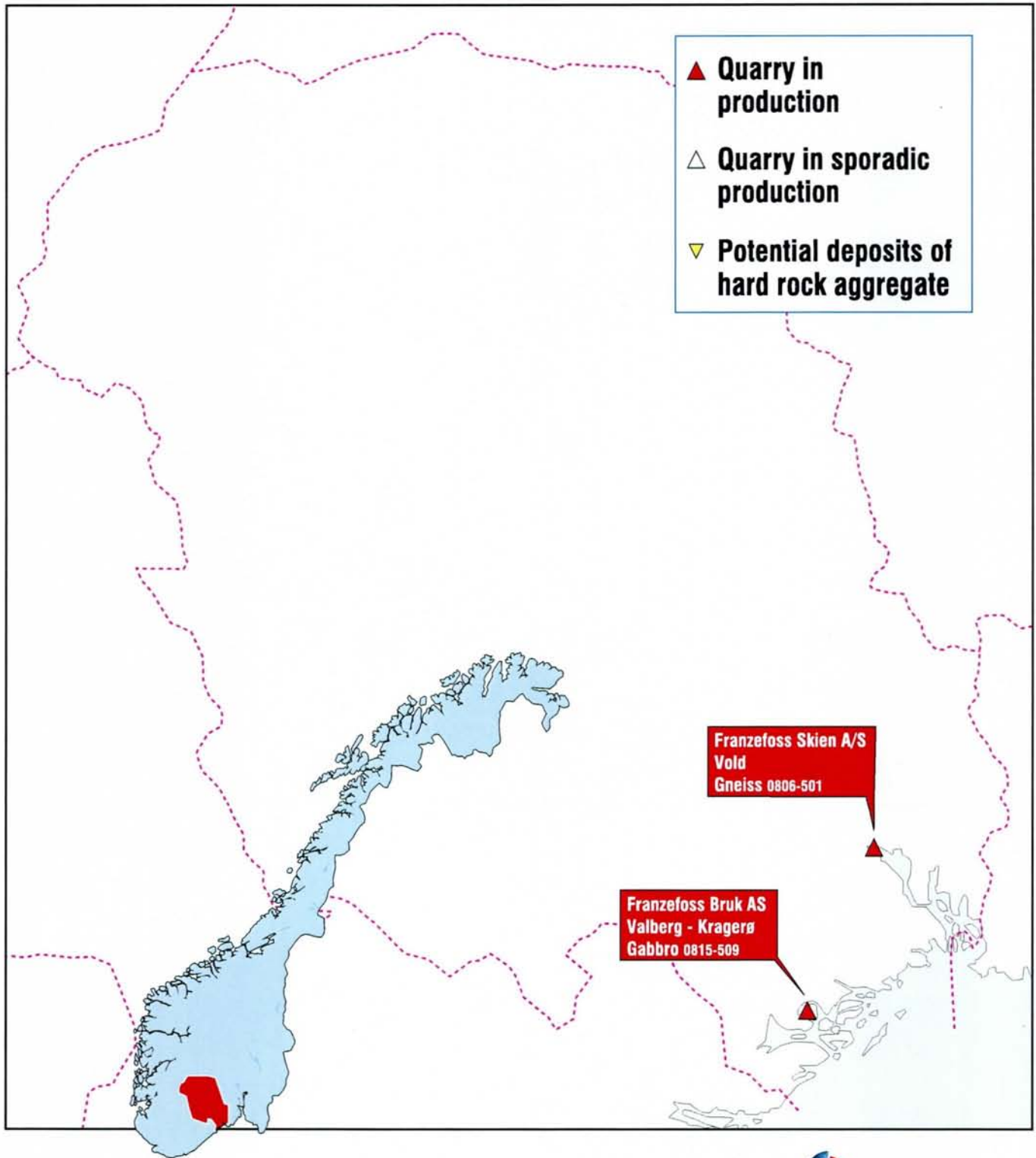
# QUARRIES AND POTENTIAL DEPOSITS OF HARD ROCK AGGREGATE IN VESTFOLD COUNTY



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# QUARRIES AND POTENTIAL DEPOSITS OF HARD ROCK AGGREGATE IN TELEMARK COUNTY

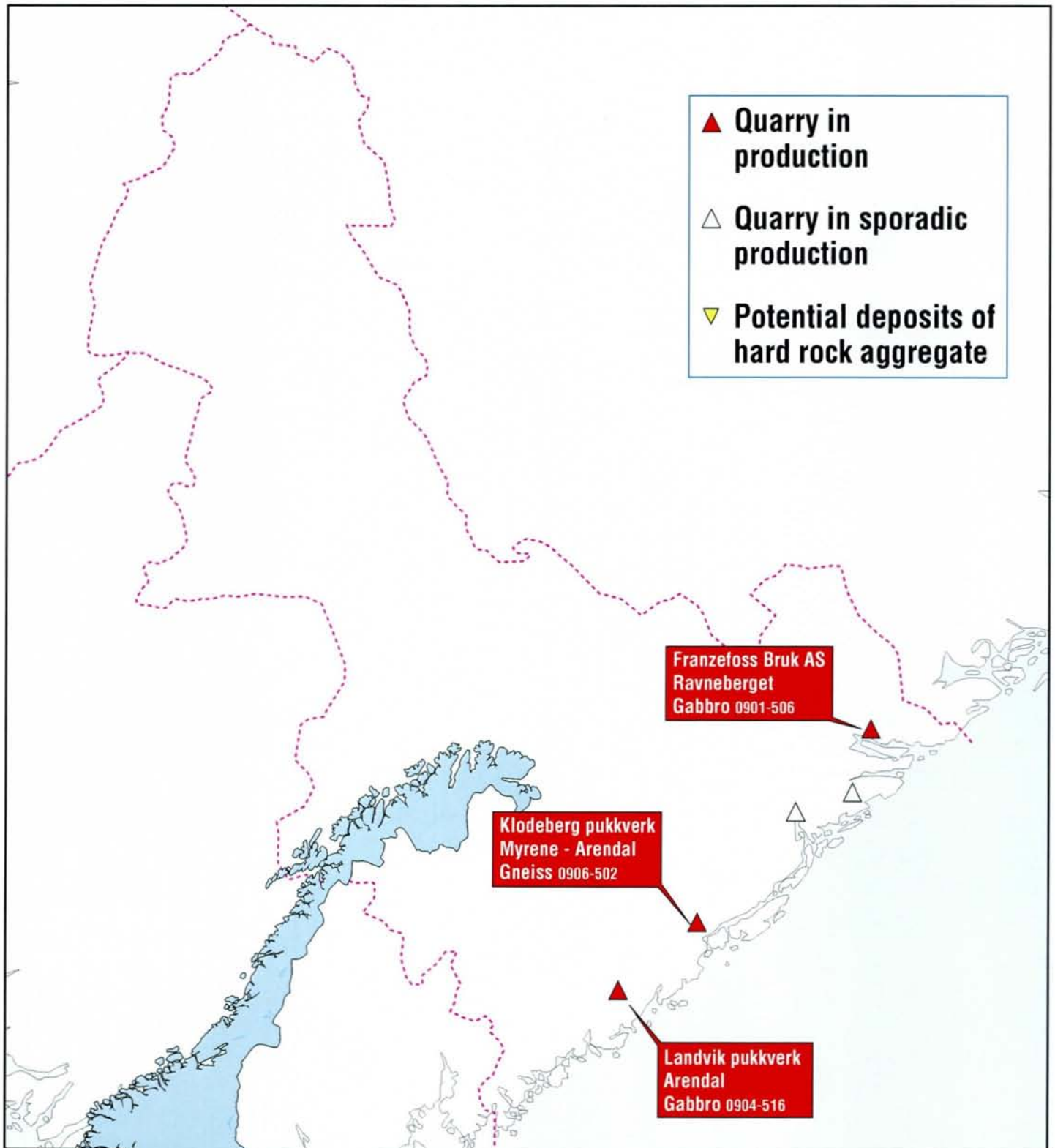


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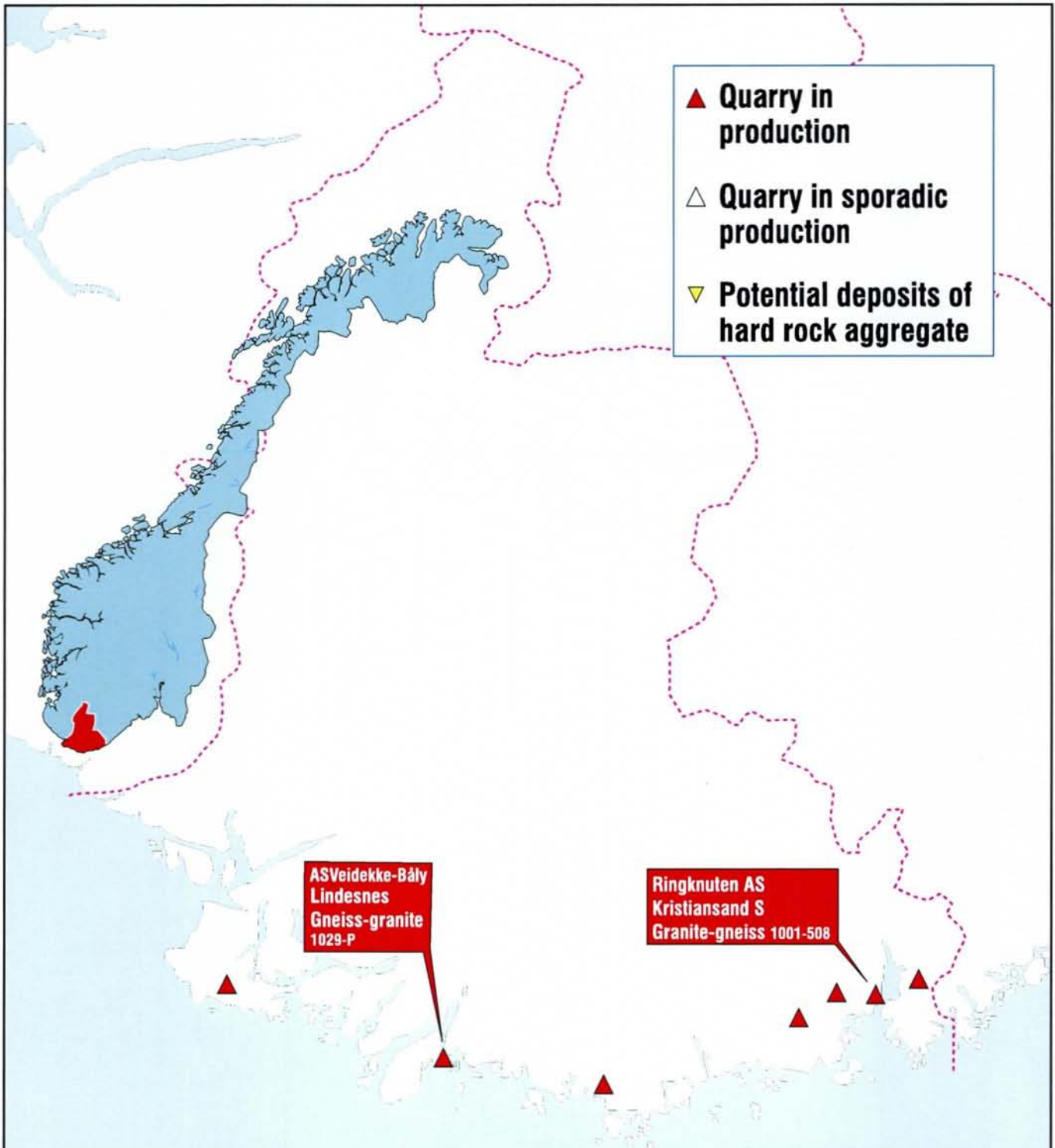
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# QUARRIES AND POTENTIAL DEPOSITS OF HARD ROCK AGGREGATE IN AUST-AGDER COUNTY



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# QUARRIES AND POTENTIAL DEPOSITS OF HARD ROCK AGGREGATE IN VEST-AGDER COUNTY

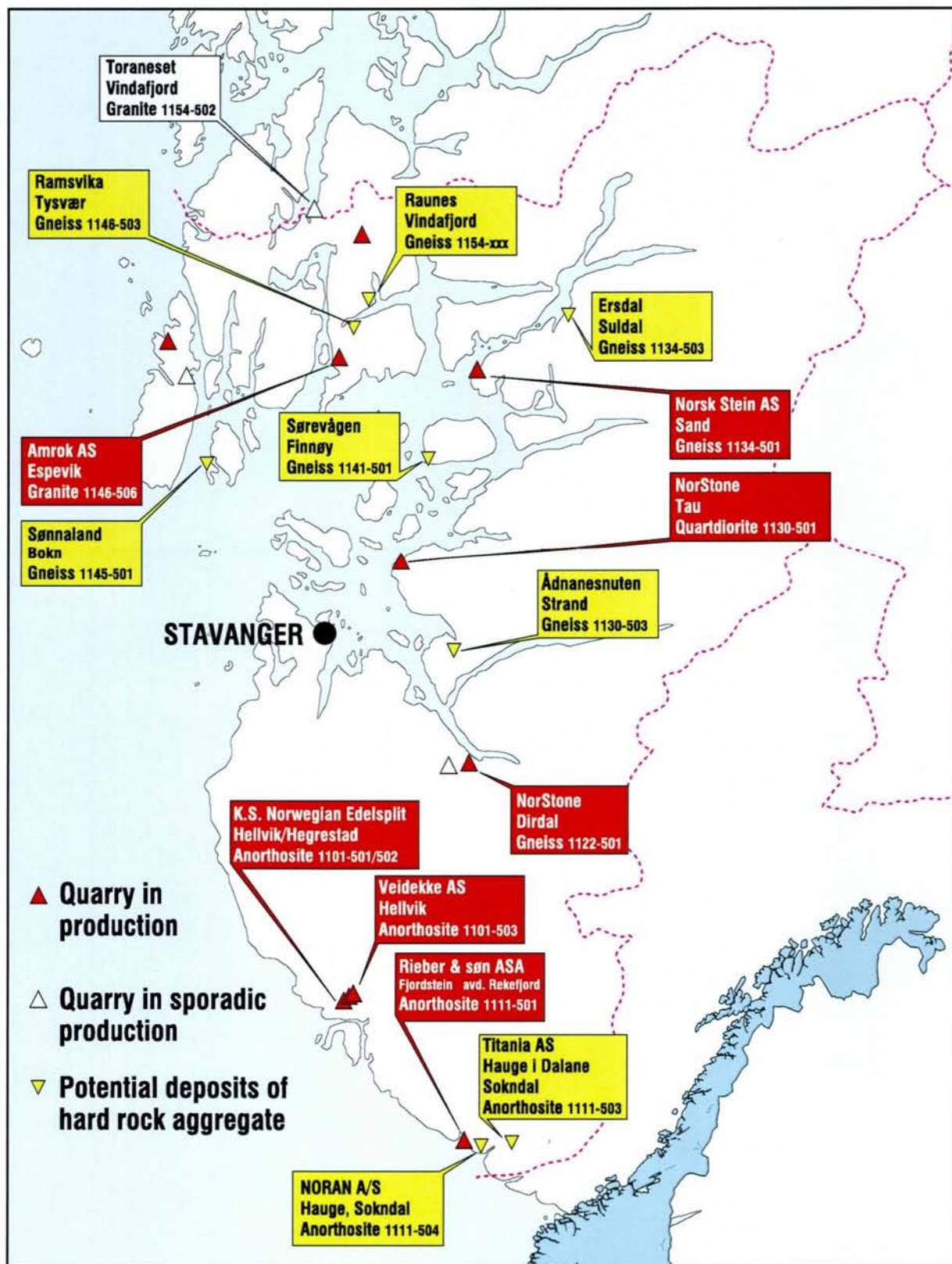


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# QUARRIES AND POTENTIAL DEPOSITS OF HARD ROCK AGGREGATE IN ROGALAND COUNTY

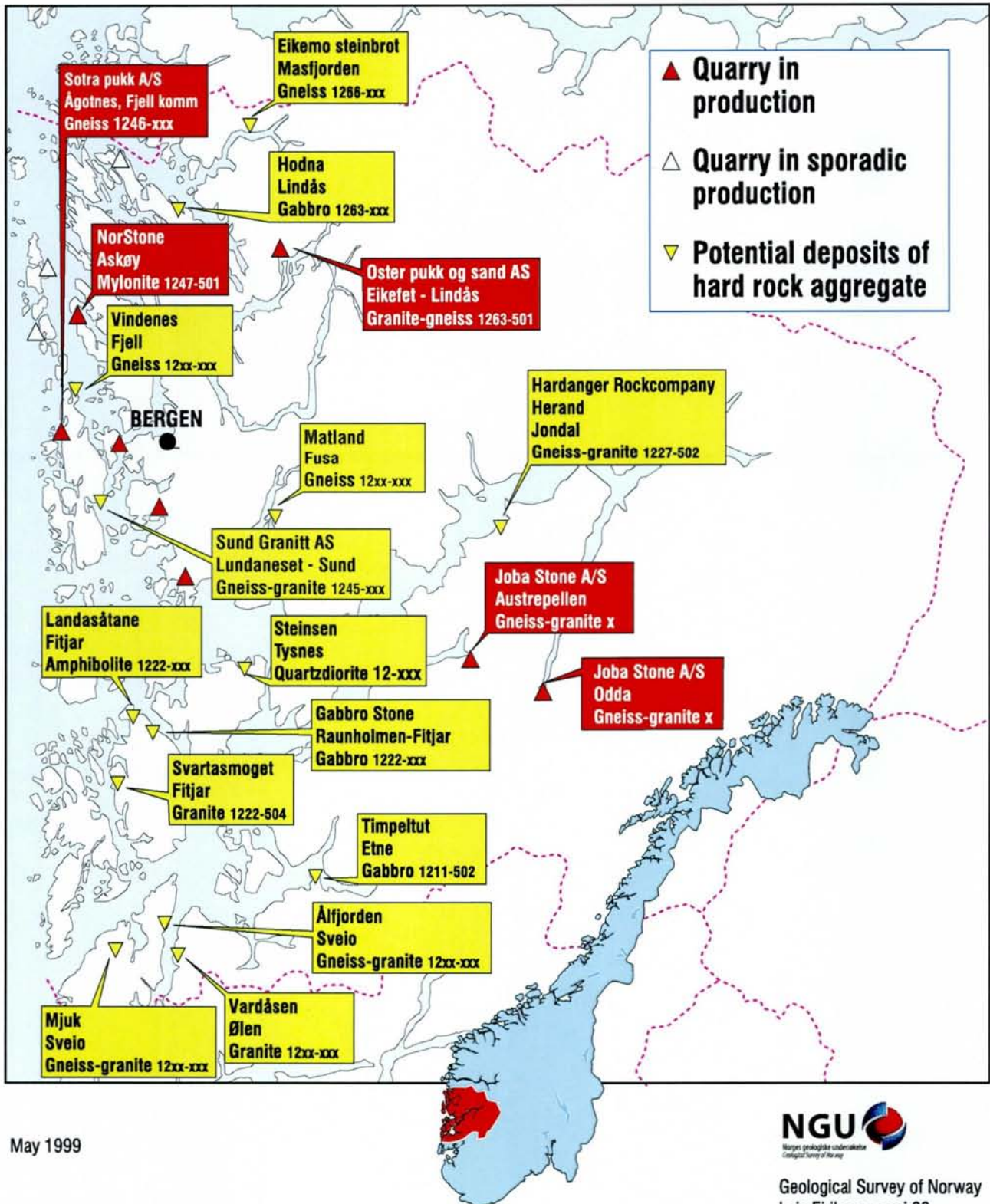


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## QUARRIES AND POTENTIAL DEPOSITS OF HARD ROCK AGGREGATE IN HORDALAND COUNTY

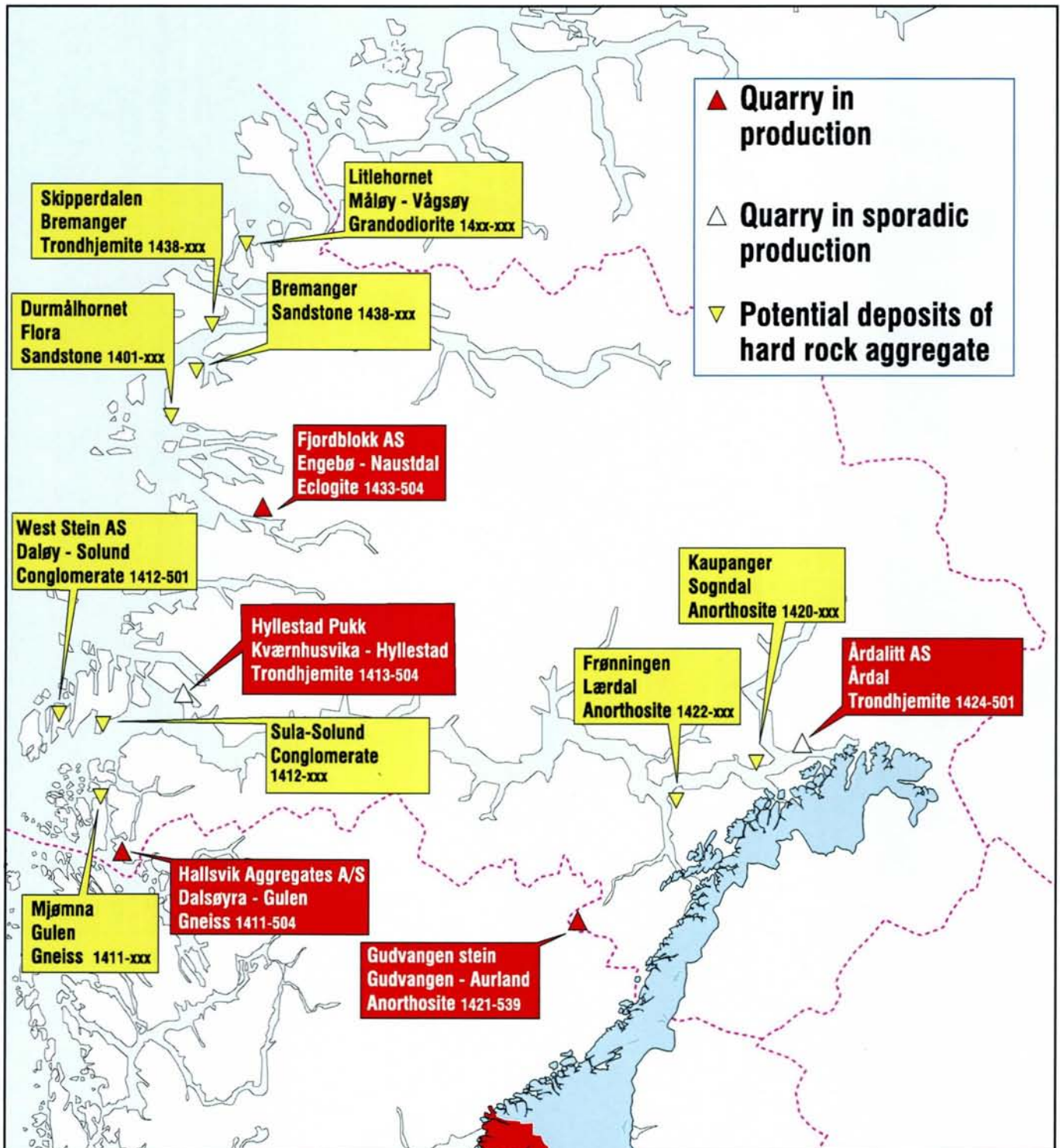


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# QUARRIES AND POTENTIAL DEPOSITS OF HARD ROCK AGGREGATE IN SOGN OG FJORDANE COUNTY

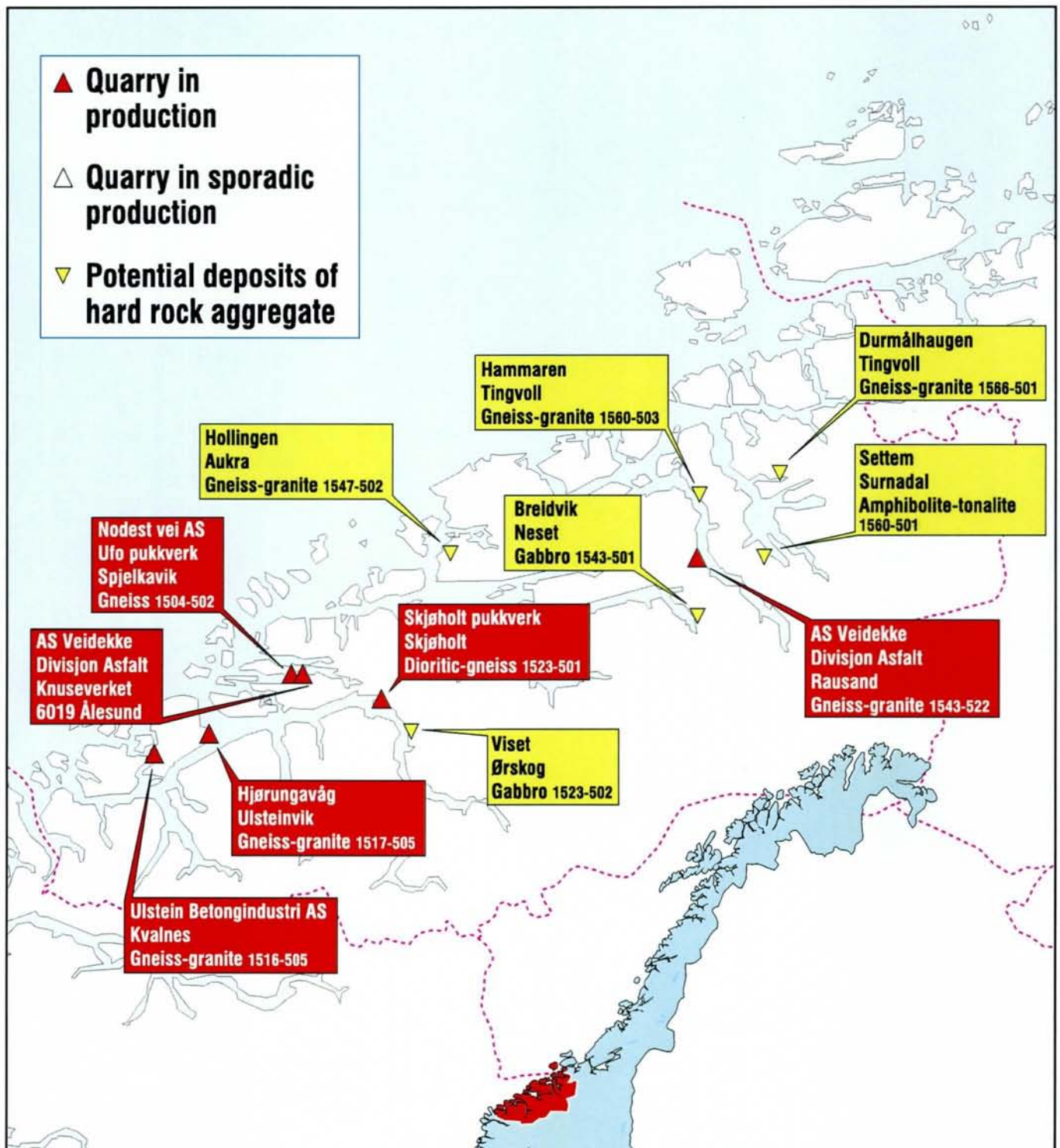


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# QUARRIES AND POTENTIAL DEPOSITS OF HARD ROCK AGGREGATE IN MØRE OG ROMSDAL COUNTY



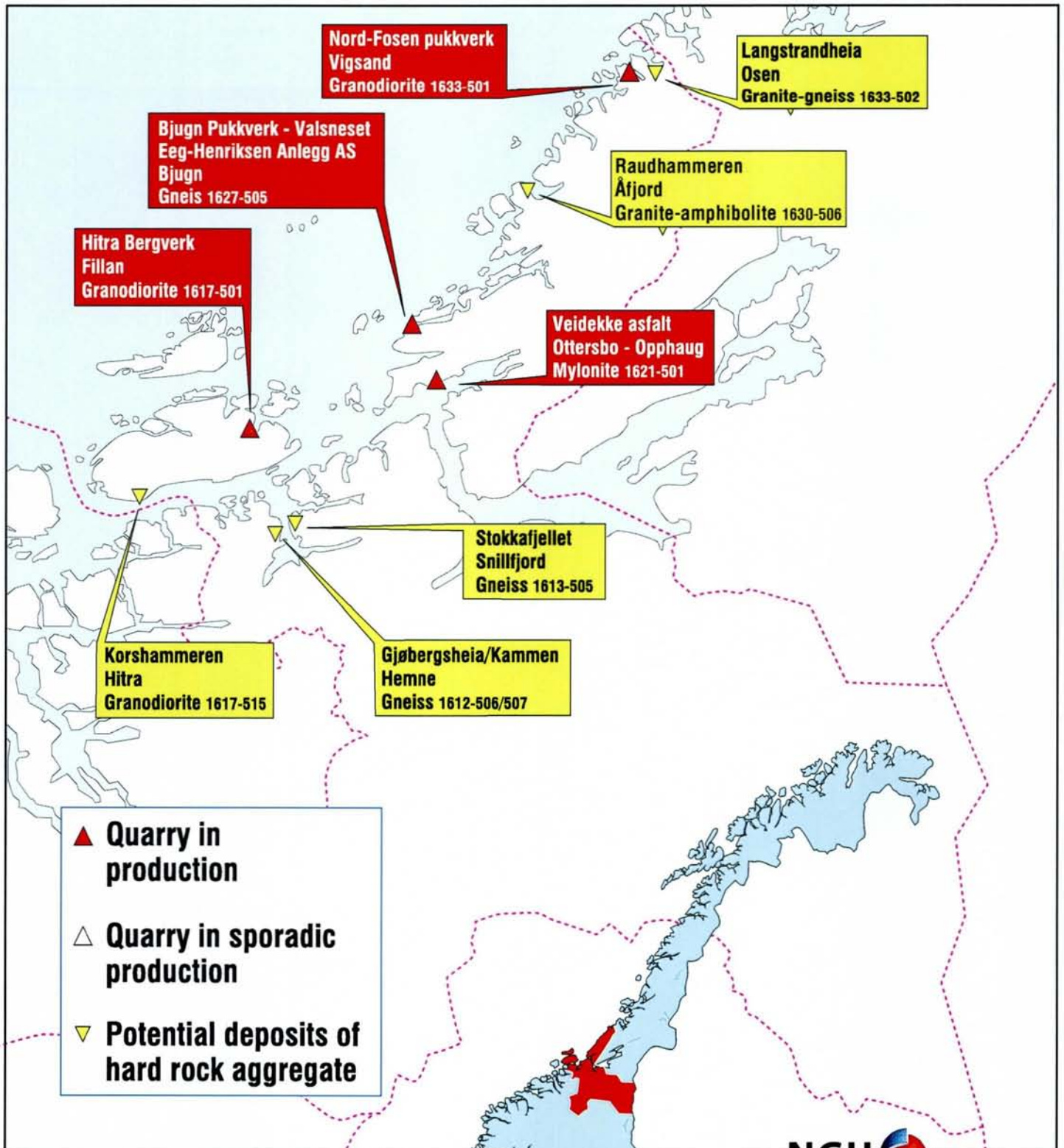
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# QUARRIES AND POTENTIAL DEPOSITS OF HARD ROCK AGGREGATE IN SØR-TRØNDELAG COUNTY



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