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Title: Norway's coastal aggregates. Export in 2004 and potential.				
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Summary: The Geological Survey of Norway is in the process of compiling an inventory of hard rock aggregate deposits in coastal Norway. This report contains a catalogue of Norwegian coastal quarries presently in production and export, as well as potential production areas along the coast of southern Norway. 10.2 million tonnes of aggregates were exported to Europe in 2004, of which about 2.1 million tonnes was used by the offshore oil and gas industry on the continental shelf.				
Keywords:				
Coastal aggregates		Export		Los Angeles
PSV		Density		Bedrock

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INTRODUCTION

The Norwegian production of hardrock aggregates amounted to about 37,3 million tonnes in 2004. In addition, 15 million tonnes of sand/gravel were produced.

A total of 10.2 million tonnes of aggregate and 0.13 million tonnes of sand and gravel were exported, with an export value of NOK 460 million (or 56 mill EUR), from 18 hard rock aggregate- and 3 sand and gravel producers (statistics compiled by NGU and the producers) see pages 5-7. Export of hard rock aggregate represents 28 % of the total hard rock production. Aggregates are used in the following ways: roads (63%), offshore (19 %), concrete (8 %) and other use (10%). 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, Kolo-Veidekke AS, NCC Roads AS, Halsvik Aggregates A/S and Visnes Kalk A/S. These companies each have an annual production in the order of 1-2.5 million tonnes. The largest individual aggregate quarry (gneiss) owned by Norsk Stein A/S had a production of approx. 3.5 million tonnes in 2004. Export of aggregates for use offshore, mostly in Norwegian sectors of the North Sea was 2.1 million tonnes in 2004 from 6 producers. The exported sand and gravel is from three quarries in Rogaland.

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, in order that local government planners will be able to classify such sites for future development. In Bremanger municipality, one new quarry is planned and will start production of green sandstone in 2005, with PSV from 58 to 62. Bremanger Quarry AS has started export production to Netherlands in 2001. A new sandstone quarry is planned in Flora commune.

NGU is planning to map, in cooperation with counties, local authorities and industry, the potential for new coastal rock units for which environmental, topographic and transport criteria would favour quarrying.

The Gravel- and Aggregate database has been placed on the Internet and includes digital maps for zooming in on the quarries:

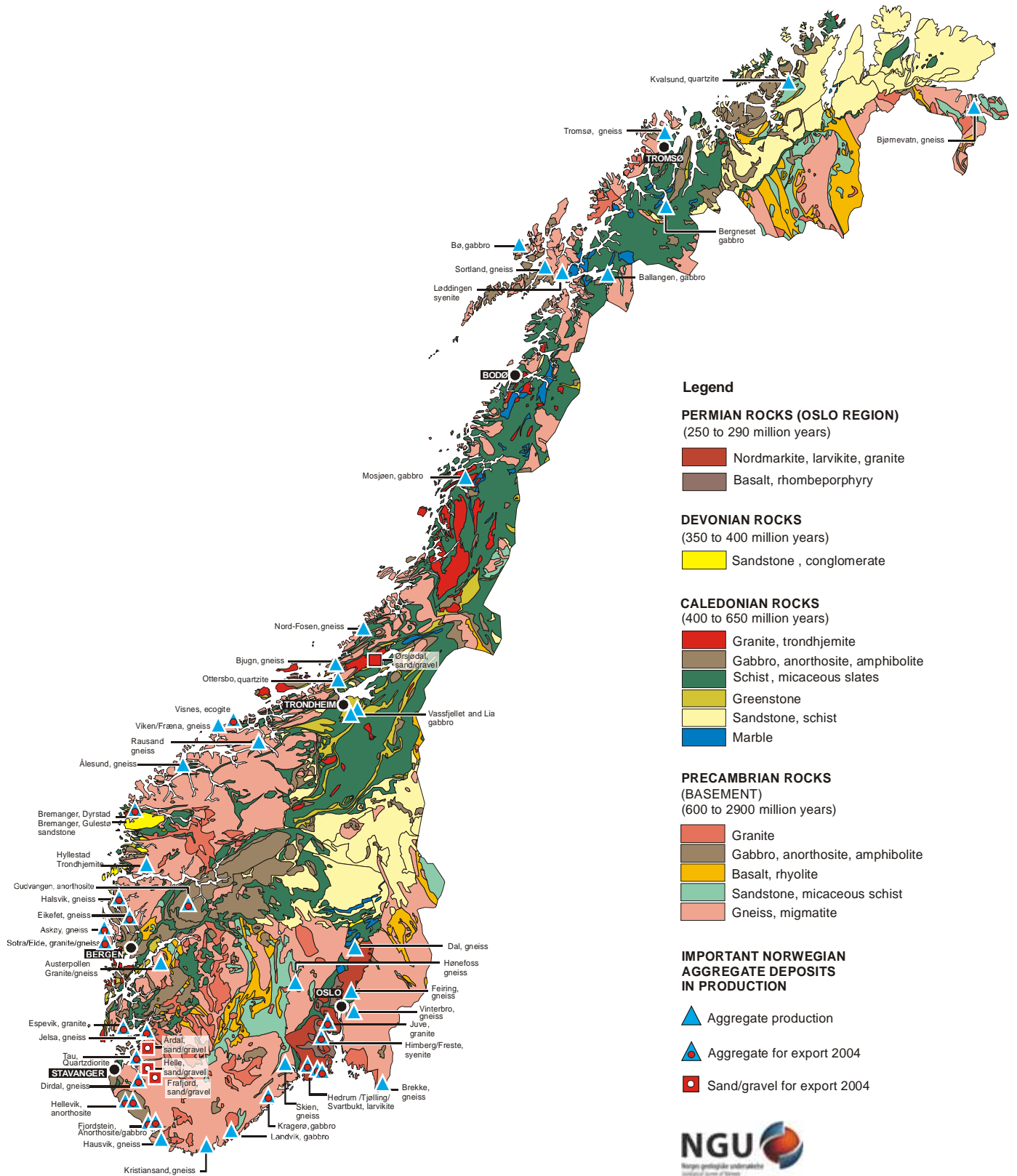
<http://www.ngu.no/grusogpukk> or <http://www.ngu.no>

The next report will be available in April 2006.

Trondheim, 5nd April 2005

Peer-Richard Neeb
Teamleader
Aggregates

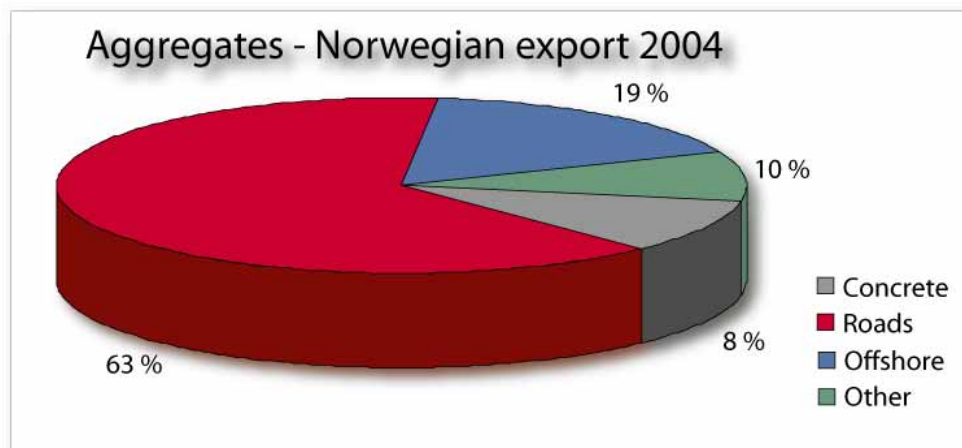
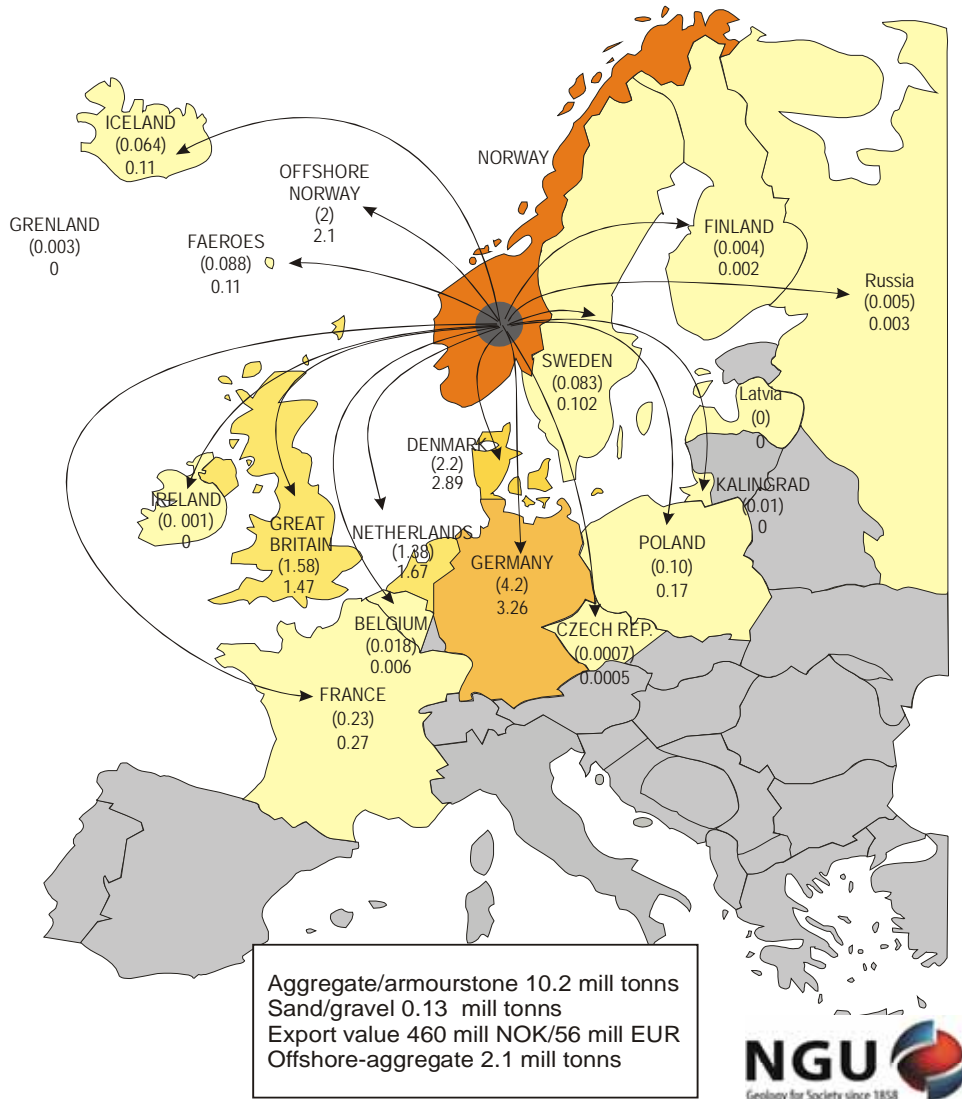
BEDROCK MAP OF NORWAY WITH IMPORTANT AGGREGATE DEPOSITS



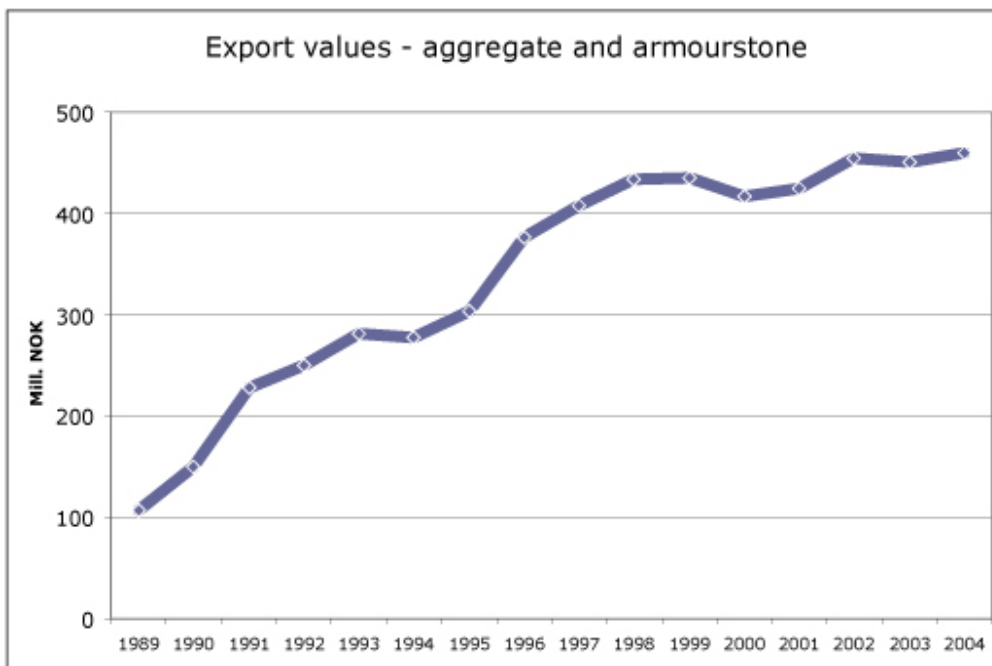
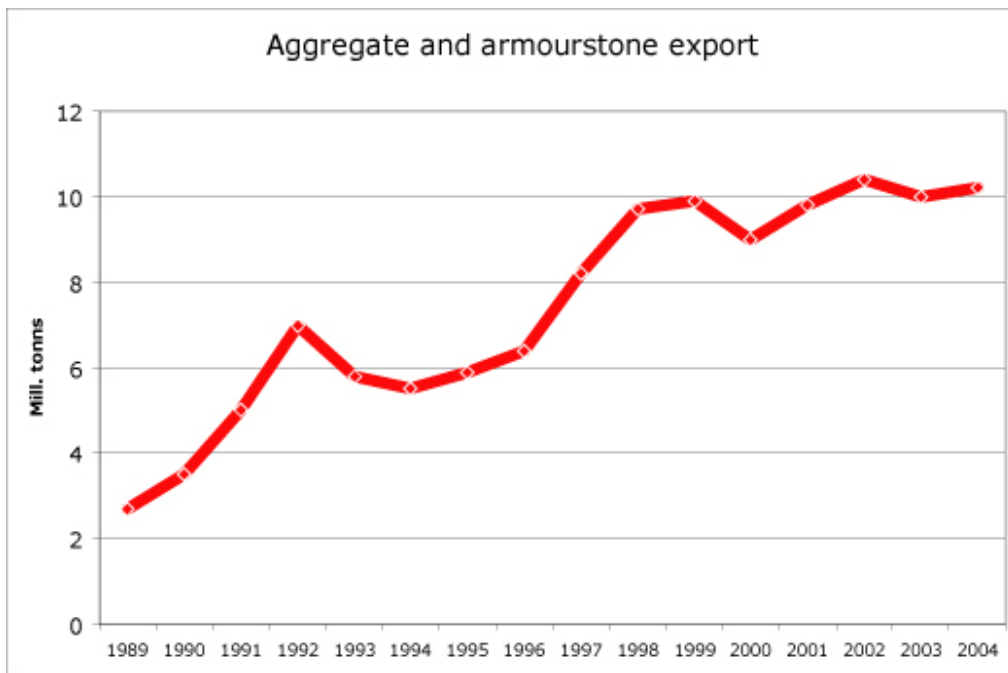
NORWEGIAN AGGREGATE FOR EXPORT IN 2004

Total production 12.3 mill. tonnes and export 10.2 mill. tonnes aggregate, armour-stone, sand and gravel and in addition 2.1 mill. tonnes aggregate for offshore use.

Production values in parentheses are from 2003.



AGGREGATE EXPORT 1989-2004



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

Østfold County

No. Commune	Production place	Export today	Contact person	Telephone	Fax-number	Bedrock/ colour	Quality			Other
							Los Angeles	PSV	Density	
0101-xxx Halden	Brekke Iddefjorden Rute 503 1733 Halden		Tore Brekke	69 19 71 07		Granite Grey			2.65	Export 97/98
0101-506 Halden	NorStone as, Svingen		Terje Holt	69 19 53 61	69 19 50 74	Gneiss/grey	15	51-54	2.79	

Vestfold County

Nr. Commune	Production place	Export today	Contact person	Telephone	Fax-number	Bedrock/ colour	Quality			Other
							Los Angeles	PSV	Density	
0709-511 709-501	NCC Roads AS avd Hedrum- og Tjølling Pukkverk, Postboks 2073, 3255 Larvik	x	Ole Steinholt	33 13 69 60	33 13 69 79	Syenite/Larvikite Grey-black	30.9 31.2	48 48	2.72 – 2.73 2.71	Hedrum Tjølling
0709-xxx Larvik	Svartbukt/Larvik Stema Shipping (N) A/S Grøtinglia 32, 3261 Larvik	x	Arne Nicander	33 13 03 94 91663070	33 12 72 30	Syenite/Larvikite Grey-black	24.5	48	2.74	Armourstone
0718-503 Ramnes	Martin Haraldstad AS 3175 Ramnes	x	Steinar Frellumstad	33 39 65 54	33 39 51 95	Syenite Grey	19.0 – 23.2	50	2.62 – 2.74	Avd. Himberg, Freste
0713-508 Sande	Sando Kalk og Pukk- servise AS		NGU			Carbonate White	19.4	57	2.78	Closed
0711-506 Svelvik	Juve pukkverk A/S, 3060 Svelvik	x	Guri Olsen	33 77 20 15		Granite Red	23.7 – 27.4		2.50 – 2.60	

Telemark County

Nr. Commune	Production place	Export today	Contact person	Telephone	Fax-number	Bedrock/ colour	Quality			Other
							Los Angeles	PSV	Density	
0806-501 Skien	NCC Skien pukkverk AS, Voldsfjorden Havnevn. 22 3739 Skien		Per Særen	35 90 04 44	35 90 04 41	Gneiss	21 - 23	50 -51	2.65	Export before 2005
0815-509 Kragerø	NCC ROADS Avd. Valberg 3770 Kragerø	x	Frode Jørgensen	35 98 99 40	35 98 99 41	Gabbro Black	15 - 20	51	2.90 –3.11	

Aust-Agder County

Nr. Commune	Production place	Export today	Contact person	Telephone	Fax-number	Bedrock/ colour	Quality			Other
							Los Angeles	PSV	Density	
0901-506 Risør	Franzefoss Pukk A/S Ravneberget 4990 Søndeland		Eigil Runsag	67 15 20 00 37 15 61 87	67 15 20 01 37 15 62 73	Gabbro		54	3.03	
0904-516 Grimstad	Landvik pukkverk Postboks 481 4801 Arendal		Oddvar Madsen			Gabbro				
0906-502 Arendal	Klodeborg pukkverk Postb. 1701, Myrene 4801 Arendal		Oddvar Madsen		37 09 49 72	Gneiss			2.80	

Vest-Agder County

Nr. Commune	Production place	Export today	Contact person	Telephone	Fax-number	Bedrock/ colour	Quality			Other
							Los Angeles	PSV	Density	
1001-508 Kristiansand	Ringknuten pukkverk A/S Postboks 1121 Lundsiden 4602 Kristiansand S		Karsten Reme	38 17 91 00	38 09 72 08	Gneiss			2.60 – 2.70	
1032-501 Lyngdal	Kolo - Veidekke A.S Hausvik Pukkverk Martin Haraldstad AS 3175 Ramnes		Steinar Frellumstad	33 01 63 00 33 39 65 54	33 39 51 95	Gneiss/granite		50	2.73	Export 2001

Rogaland County

Nr. Commune	Production place	Export today	Contact person	Telephone	Fax-number	Bedrock/ colour	Quality			Other
							Los Angeles	PSV	Density	
1101-501 1101-502 Eigersund	K.S. Norwegian Edelsplit 4375 Hegrestad	x	Anders Hovland	51 46 11 80 / 51 49 68 77	51 49 66 54	Anorthosite White	11.9 - 17	51 - 55 42	2.69 – 2.77	
1101-503 Eigersund	Ramsland pukk A.S, Hellvik 4387 Bjerkreim		Paul Ramsland local marked	51 45 01 88 51 49 68 77	51 45 01 11	Anorthosite White	12.3	54	2.78	
1111-501 Sokndal	NCC ROADS AS avd Fjordstein, 4380 Hauge i Dalane	x	Pål Thjøme	51 47 08 00	51 47 08 44	Anorthosite/ Norite	14-33 23-35	46-53 55	2.75 3.16	Anorthosite closed 2005 Norite
1134-501 Suldal	Norsk Stein AS Berakvam 4234 Jelsa	x	Jan-Øyvind Jørgensen	52 79 29 00	52 79 29 01	Gneiss	15.4 – 20	52 - 58	2.76 – 2.79	
1122-501 Gjesdal	NorStone a.s NorStone Dirdal 4335 Dirdal	x	Ole Bore	51 67 61 00	51 67 61 01	Gneiss	24.3	48	2.76 – 3.0	
1122 - 8	NorStone a.s NorStone Frafjord 4335 Dirdal	x	Ole Bore	51 67 61 00	51 67 61 01	Sand/gravel				
1130-501 Strand	NorStone a.s NorStoneTau 4120 Tau	x	Ole Bore	51 67 61 00	51 67 61 01	Mylonite Quartz diorite	10.5 – 10.8	52 – 57	2.76 – 2.80	
1146-506 Tysvær	Amrock J.V. A/S Espevik,5560 Hinderåvåg, Tysvær	x	Odd Hotdvedt	52 75 42 30 94 61 34 62	52 77 89 33	Granite	12.1 - 27	50 - 58	2.63 – 2.93	
1154-502 Vindafjord	Knapphus knuseverk Toraneset Øvre Vats 5576		Svein Ove Tyssebotn	53 76 39 16		Granite			2.71	
1133-018 Hjelmeland	NorStone Årdal 4137 Årdal i Ryfylke	x	Ole Bore	51 67 61 00	51 67 61 01	Sand/gravel				
1122-13/14 Gjesdal	Lemminkainen Norge A/S Postboks 69 4301 Sandnes		Rolf Stangeland	51 57 90 50 90 76 12 40	51 57 54 17	Sand/gravel				Avd. Vølstad Export 2002

Rogaland County - Potential deposit of aggregate

Nr. Commune	Production place	Potential	Contact person	Telephone	Fax-number	Bedrock/ colour	Quality			Other
							Los Angeles	PSV	Density	
1103-503	Ådnanesnuten Strand kommune	Potential				Augen gneiss			2.66	
1141-501	Sørevågen Finnøy kommune	Potential				Gneiss			2.75	
1145-501	Sønnaland Bokn kommune	Potential				Gneiss			2.64	
1146-503	Ramsvika Tysvær kommune	Potential				Gneiss			2.67	
1134-503	Ersdal Suldal kmmune	Potential				Gneiss			2.73	
1154-505	Rafoss Invest AS, Vindafjord Rock Company AS,Raunes Vindafjord komm.	Potential		53 76 12 00 NGU	53 76 05 20	Gneiss	21.4 – 40.3	51 – 54	2.62 – 2.71	
1111-504	Sokndal-Jøssingfjord Noran A/S	Potential quarry	Steinar Melgren	66 78 75 65	66 78 72 67	Anorthosite				
1111-503	Hauge i Dalane, Sokndal Titania a/s	Potential	Ragnar Hagen	51 47 80 00	51 47 80 10	Anorthosite	24.1	48	2.88	Waste from illmenite mine

Hordaland County

Nr. Commune	Production place	Export today	Contact person	Telephone	Fax-number	Bedrock/ colour	Quality			Other
							Los Angeles	PSV	Density	
1247-501	NorStone a.s NorStone Askøy 5328 Herdla	x	Ole Bore	51 67 61 00	51 67 61 01	Mylonite	14.1		2.60	
1263-501 Lindås	Eikefet pukkevverk Oster pukke og sand A/S Ø. Muralm. 1, 5012 Bergen	x	Jostein Gjesdal	55 36 30 00	55 36 30 10	Granite-gneiss		49 - 54	2.65 – 2.70	
1246-501 Fjell	Sotra Pukk A/S, Eide Ø. Muralm. 1, 5012 Bergen	x	Jostein Gjesdal	Granite-gneiss	55 36 30 00	55 36 30 10		54	2.64	

Nr. Commune	Production place	Export today	Contact person	Telephone	Fax-number	Bedrock/ colour	Quality			Other
							Los Angeles	PSV	Density	
1224 xxx/xxx Kvinnherad	Mauranger Stein A/S Austrepollen 5464 Dimmelsvik		Johannes Hjelmeland	Granite-gneiss	53 48 30 70 41683070	56 55 60 57		52	2.72	Waste from road tunnel

Hordaland County - Potential deposit of aggregate

Nr. Commune	Production place	Potential	Contact person	Telephone	Fax-number	Bedrock/ colour	Quality			Other
							Los Angeles	PSV	Density	
1222-504	Svartasmoget, SIM, 5410 Sagvåg Fitjar kommune	Potential	Terje Gilje	53 45 78 50	53 45 78 60	Granite			2.76	
1222-xxx	Gabbro Stone, Rauholmen box 344, 546224 Varnersberg, Sverige	Potential	Arvid Andersen	467086640955		Gabbro				
1222-xxx	Landasåtane, 5419 Fitjar Fitjar kommune	Potential	Fitjar kommune	53 49 71 01	53 49 73 97	Amphibolite				
1245-502	Sund Granitt AS, Nova Maritime Service A/S Postboks 3703, 5845 Bergen, Lundaneset, Sund kommune	Potential	Jan Johnsen	55 12 35 50	55 12 48 90	Gneiss-granite	10.6 – 15.2	50 - 56	2.64	
1266-505	Eikemo Steinbrot Masfjorden	Potential	Tore Svendsen	56 36 51 00	56 36 51 05	Gneiss	25.9 – 31.1	52 - 55	2.65	
1263-504	Hodna, 5110 Isdalsstø Lindås kommune	Potential		56 35 05 55	56 35 28 00	Gabbro				
1246-505	Vindenes, Aktivest, Postboks 244, 5353 Straume, Fjell kommune	Potential	Harald Smedal	56 32 0055	56 32 01 60	Gneiss			2.74	
1241-xxx	Matland, 5640 Eikelandsosen Fusa kommune	Potential	Fusa kommune	56 56 11 00	56 58 13 38	Gneiss				
1223-501	Steinåsen, 5685 Uggdal Tysnes kommune	Potential		53 42 22 22	53 43 21 81	Quartzdiorite			3.03	

Nr. Commune	Production place	Potential	Contact person	Telephone	Fax-number	Bedrock/ colour	Quality			Other
							Los Angeles	PSV	Density	
1216-xxx	Ålfjorden, 5520 Sveio, Sveio komm.	Potential	Sveio kommune	53 74 01 00	52 74 00 96	Gneiss-granite				
1216-xxx	Mjuk, 5520 Sveio Sveio kommune	Potential	Sveio kommune	53 74 01 00	52 74 00 96	Gneiss-granite				
1214-501	Vardåsen, 5580 Ølen Ølen kommune	Potential	Ølen kommune	53 76 81 66	53 76 82 52	Granite			2.65	

Sogn og Fjordane County

Nr. Commune	Production place	Export today	Contact person	Telephone	Fax-number	Bedrock/ colour	Quality			Other
							Los Angeles	PSV	Density	
1411-504 Gulen	Halsvik Aggregates A/S, Sløvåg, 5960 Dalsøyra	x	Lars Hellandsjø	57 78 38 40	57 78 38 76	Gneiss	19,5 – 22,3	49 - 57	2,67 - 2.71	
1421-539 Aurland	Gudvangen stein AS, Bryalii 153, 5700 Voss	x	Sigmund Bjørke	56 52 34 65 94 68 25 20	56 52 34 61	Anorthosite White	15.2	60	2,88 – 3.04	
1424-501 Årdal	Årdalitt A/S Offerdal, 6146 Åheim		Henning Hansen	70 02 43 22		Trondhemite	26	47	2.63	
1413-504 Hyllestad	Hyllestad Pukk A/S Molde Pullverk Årødalen 6422 Molde		Jan Løvik	71 21 03 68 71 20 33 80 90 88 41 80	71 21 31 50	Trondhemite/ quartzdiorite white granite	12	50 - 53	2,63	Export before 2003
1433-504 Naustal	Fjordblokk A/S Engebø, Nausdal	Closed 99		NGU		Eclogite	9.5 – 12.6	51 – 53	3.31 - 3.38	
1420-501 Sogndal	Sogndal Pukkverk Fredheim Maskin og Betong A/S , 6856 Sogndal		Arvid Fredheim	57 67 84 46 90 51 33 66	57 67 88 14	Anorthosite	18	49	2.91-2.93	
1401-514 Flora	Havrøy Pukkverk Flora	Closed				Anorthosite				
1416-046 Høyanger	Bjorsand AS 6949 Bjordal		Helge Bjordal	57 71 02 80 57 71 02 52	57 71 02 81	Sand/gravel				Export brfore 2003

Nr. Commune	Production place	Export today	Contact person	Telephone	Fax-number	Bedrock/ colour	Quality			Other
							Los Angeles	PSV	Density	
1438-515 Bremanger	Bremanger Quarry A.S, Dyrstad 6721 Svelgen	x	Rune Mo Postboks 93 6721 Svelgen	57 79 22 00	57 79 22 01	Sandstone Green	12	60	2.69	NGU sample 09.2001

Sogn og Fjordane County - Potential deposit of aggregate

Nr. Commune	Production place	Potential	Contact person	Telephone	Fax-number	Bedrock/ colour	Quality			Other
							Los Angeles	PSV	Density	
1438-514 Bremanger	Bremanger Aggregates, Gulestø,	Potential	NGU	73 90 40 00	73 92 16 20	Sandstone Green	13	57 – 58	2.74	EUROVIA gmbH, Germany New Company
1438-504 and 510 Bremanger	Gotraneset - Skipperdalen	Potential	NGU			Trondhemite Grey/white	14.7 – 17.2	50 - 58	2.68 – 2.71	
1401-5xx Flora	Årebråt. Seljestokken - Bjørkeliskaret	Potential	Norwegian Sandstone Export AS			Sandstone Green	12-14	55-57	2.74	New company 2002
1401-506 Flora	Beidvik, Durmålhornet	Potential	NGU			Sandstone Green	11.8	56	2.74	

Møre og Romsdal County

Nr. Commune	Production place	Export today	Contact person	Telephone	Fax-number	Bedrock/ colour	Quality			Other
							Los Angeles	PSV	Density	
1516-505 Ulstein	Kvalnes pukkverk Ulstein Betongindustri A/S 6072 Haddal			70 01 60 04		Gneiss/granite			2.67 – 2.70	
1504-501 Ålesund	Kolo -Veidekke AS Ålesund 6019 Ålesund		Magne Mørkedal	70 17 54 00 94 73 63 76	70 17 54 10	Gneiss			2.65 – 2.72	
1504-502 Ålesund	Ufo pukkverk Nodest vei A/S 6010 Spjelkavik		Tore Rødal	70 14 19 00		Gneiss			2.69 – 2.71	
1523-501 Ørskog	Skjøholt pukkverk 6240 Sjøholt		Karl Vaksvik Vaksvik Maskin	70 27 30 52	70 27 31 02	Dioritic-Gneiss			2.77 – 2.85	

Nr. Commune	Production place	Export today	Contact person	Telephone	Fax-number	Bedrock/ colour	Quality			Other
							Los Angeles	PSV	Density	
1543-522 Neset	Kolo-Veidekke A.S Raudsand 6462 Raudsand		Magne Mørkedal	71 23 31 00	71 23 31 02	Gneiss/granite			2.60 – 2.66	
1551-508 Eide	Visnes Eklogitt A.S 6493 Lyngstad	x	Karl Johan Eide	71 29 56 05	71 29 55 70	Eclogite	21.9 –23.2	59 – 61	3.14	
1548-512 Fræna	Viken Pukkverk A/S 1548 Fræna		Gunder Viken/ Kjell Hvattum	71 26 93 78	71 26 93 76	Gneiss			2.9	Export 2001

Møre og Romsdal County - Potential deposit of aggregate

Nr. Commune	Production place	Potential	Contact person	Telephone	Fax-number	Bedrock/ colour	Quality			Other
							Los Angeles	PSV	Density	
1523-502 Ørskog kommune	Viset pukkverk A.S Jønningshagen 40, 4316 Sandnes	Potential In planning	Alf Follo	51 62 43 18		Gabbro black	11.9	52	3.13	
1547-502	Hollingen Aukra kommune	Potential				Gneiss-granite			2.63	
1543-501 Neset kommune	Breidvik	Potential				Gabbro			3.20	
1560-503 Tingvoll	Hammaren	Potential				Gabbro			3.15	
1566-501 Tingvoll kommune	Durmålhaugen pukkverk A.S Jønningshagen 40, 4316 Sandnes	Potential In planning	Alf Follo	51 62 43 18		Gneiss/granite	26	52	2.69	
1560-501 Surnadal	Settem	Potential				Amphibolite/- tonalite			2.85	

Sør-Trøndelag/ Nord-Trøndelag Counties

Nr. Commune	Production place	Export today	Contact person	Telephone	Fax-number	Bedrock/ colour	Quality			Other
							Los Angeles	PSV	Density	
1617-501 Hitra	Hitra Bergverk 7240 Fillan		Åge Kaasbøll	72 44 14 85	72 44 15 04	Granodiorite			2.65	
1621-501 Ørland	Kolo Veidekke A.S Ottersbo pukkverk 7140 Opphaug		Ketil Oksvold	73 82 35 00 72 52 27 80	72 52 10 80	Mylonite	10.3	48 - 52	2.75 – 2.77	
1627-505 Bjugn	Bjugn Pukkverk, Valsneset NCC Roads AS Trondheim					Gneiss	12.3		2.77 – 2.81	
1633-501 Osen	Nord-Fosen pukkverk 7740 Steinsdalen	Offshore stone	Jon E Høvik	72 57 78 90 72 57 78 62	72 57 78 68	Granodiorite	27.4 – 47.5	52 - 53	2.67 – 2.69	
1724.001.04 Rissa/Verran	Ørsjødalen Verran Grus A/S 7797 Verabotn		Per Jarle Vigum	74 15 72 22		Sand/gravel				Sand/gravel production new

Sør-Trøndelag County - Potential deposit of aggregate

Nr. Commune	Production place	Potential	Contact person	Telephone	Fax-number	Bedrock/ colour	Quality			Other
							Los Angeles	PSV	Density	
1617-515	Korskammen Hitra kommune	Potential				Granodiorite Grey/white			2.70 – 2.75	
1630-506	Raudhammaren Åfjord kommune	Potential	NGU			Granite/ amphibolite				
1633-502	Langstrandheia Osen kommune	Potential	NGU			Granite-gneiss	37.9 – 70.7	54 -61	2.62 – 2.78	
1612-506/507	Gjøbergsheia/ Kammen Hemne kommune	Potential new	NGU			Gneiss	23.3 27.2	52 46	2.68 2.61	

Nr. Commune	Production place	Potential	Contact person	Telephone	Fax-number	Bedrock/ colour	Quality			Other
							Los Angeles	PSV	Density	
1613-505	Stokkafjellet Snillfjord kommune	Potential new	NGU Snillfjord kommune	72 45 55 55	72 45 55 97	Gneiss	19.6	53	2.64	

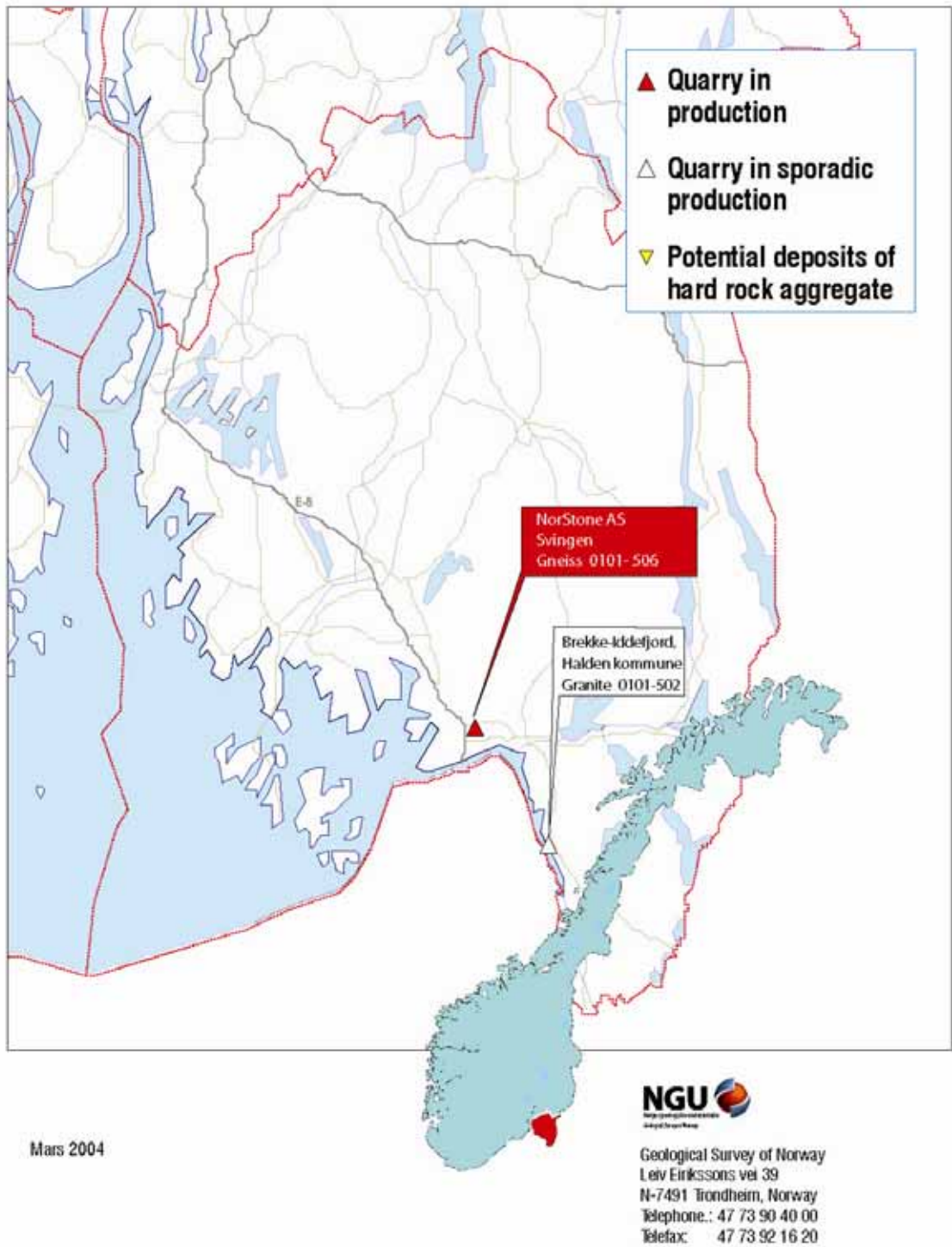
Nordland County

Nr. Commune	Production place	Export today	Contact person	Telephone	Fax-number	Bedrock/ colour	Quality			Other
							Los Angeles	PSV	Density	
1854-510 Ballangen	Ballangen Aggregates AS . Boks 86 8546 Ballangen		Bjørn Martinsen	76 95 04 91 90159131		Noritt Pyroksenite Black-green	25 - 29 9 - 10	60 55 -60	3.0	New producer export 2005

Finnmark County

Nr. Commune	Production place	Export today	Contact person	Telephone	Fax-number	Bedrock/ colour	Quality			Other
							Los Angeles	PSV	Density	
2017-501 Kvalsund	Repparfjord-Kvalsund Kvalsund Aggregates AS	Offshore stone	Lars Hellandsjø	57 78 38 40	57 78 38 76	Quartzite/grey		58	2.68	New producer Offshore/export 2005
2030-501 Sør - Varanger	Bjørnevatn Kirkenes Utvikling AS, Post boks 220 9915 Kirkenes		Trond Dahlberg	78 99 48 00	78 99 48 10	Gneiss Grey	12 – 18	54 – 56	2.75-3.02	Waste from iron mine

QUARRIES AND POTENTIAL DEPOSITS OF HARD ROCK AGGREGATE IN ØSTFOLD COUNTY



QUARRIES AND POTENTIAL DEPOSITS OF HARD ROCK AGGREGATE IN BUSKERUD COUNTY

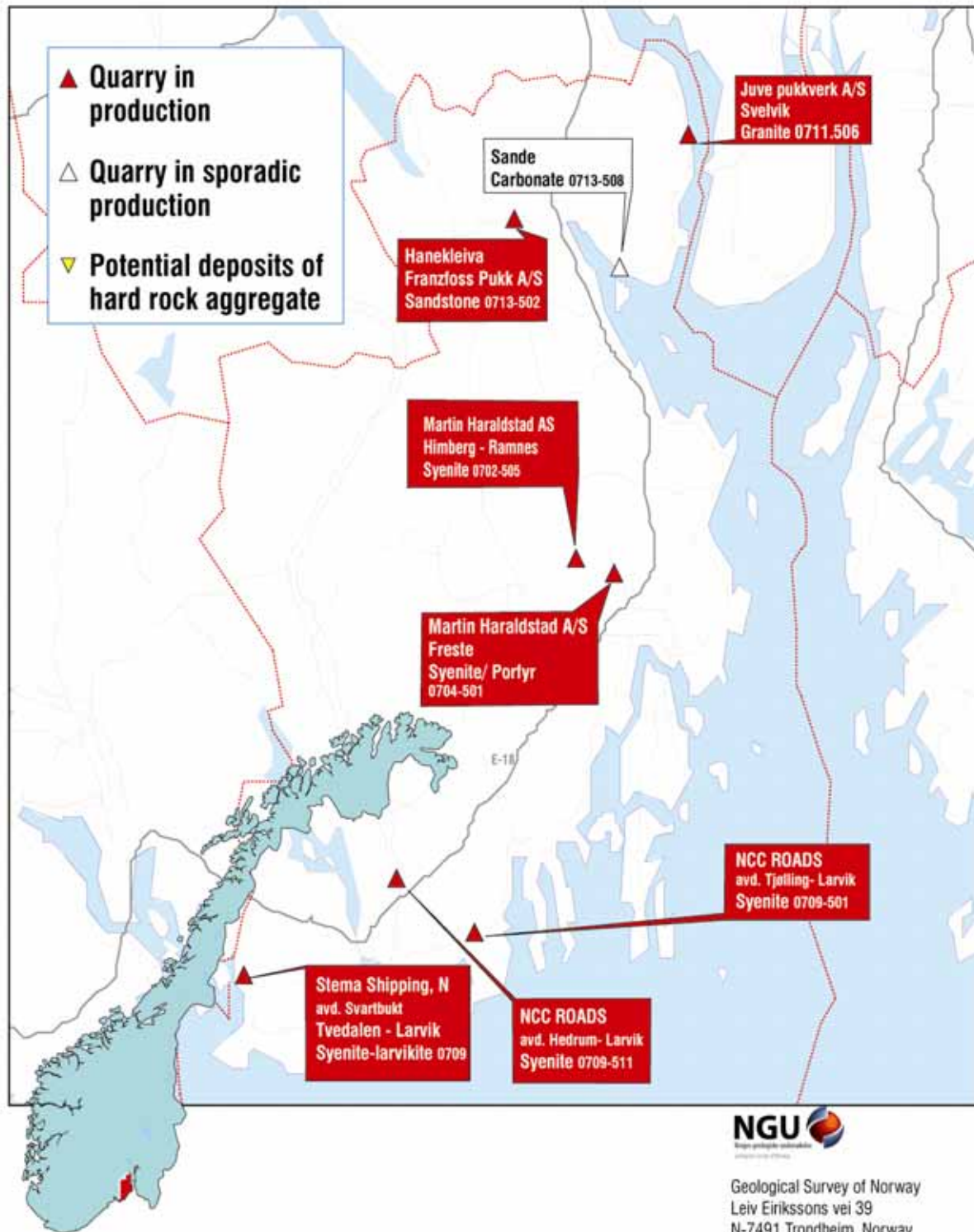


April 2003



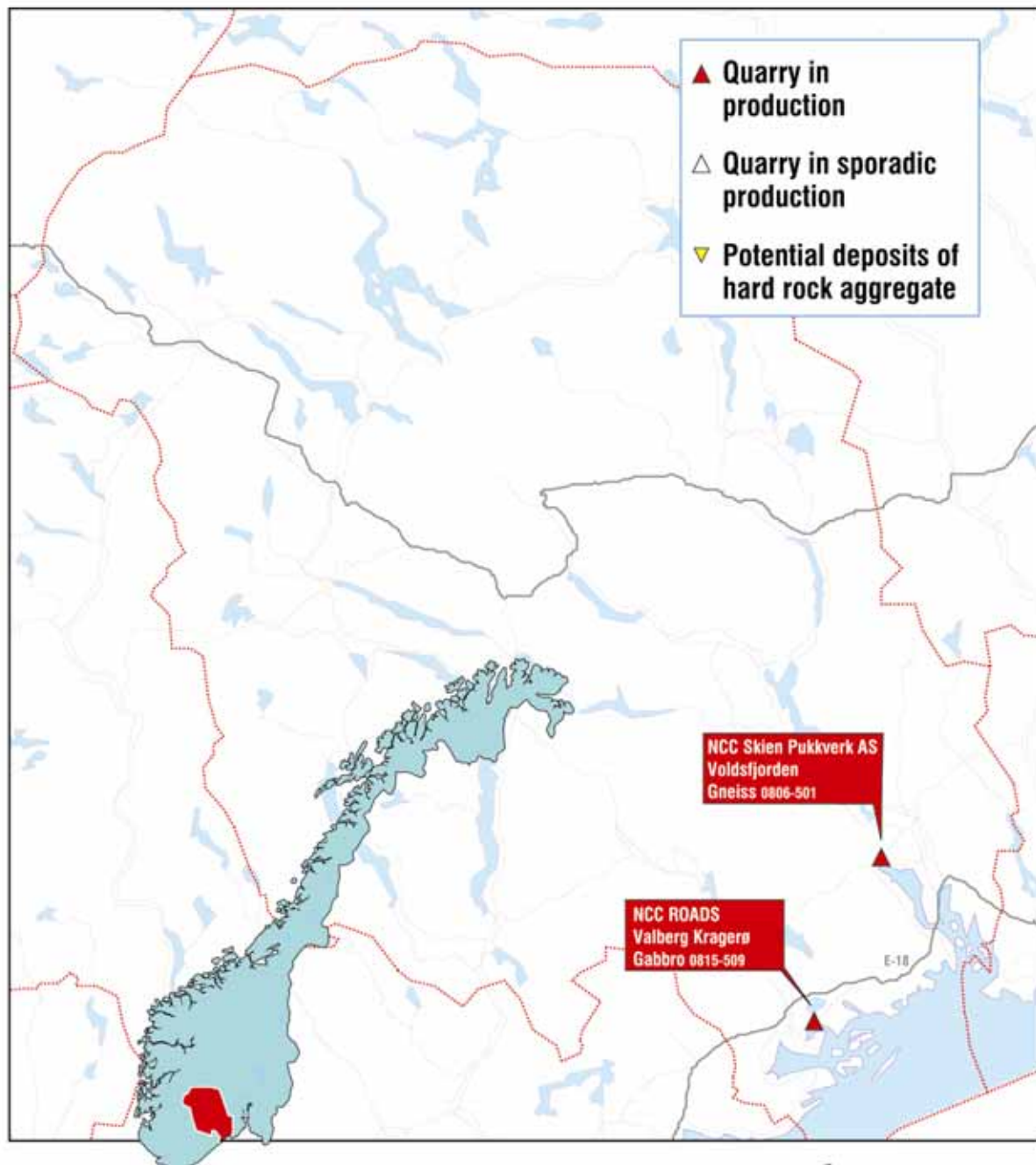
Geological Survey of Norway
Leiv Eirikssons vei 39
N-7491 Trondheim, Norway
Telephone.: 47 73 90 40 00
Telefax: 47 73 92 16 20

QUARRIES AND POTENTIAL DEPOSITS OF HARD ROCK AGGREGATE IN VESTFOLD COUNTY



April 2003

QUARRIES AND POTENTIAL DEPOSITS OF HARD ROCK AGGREGATE IN TELEMARK COUNTY

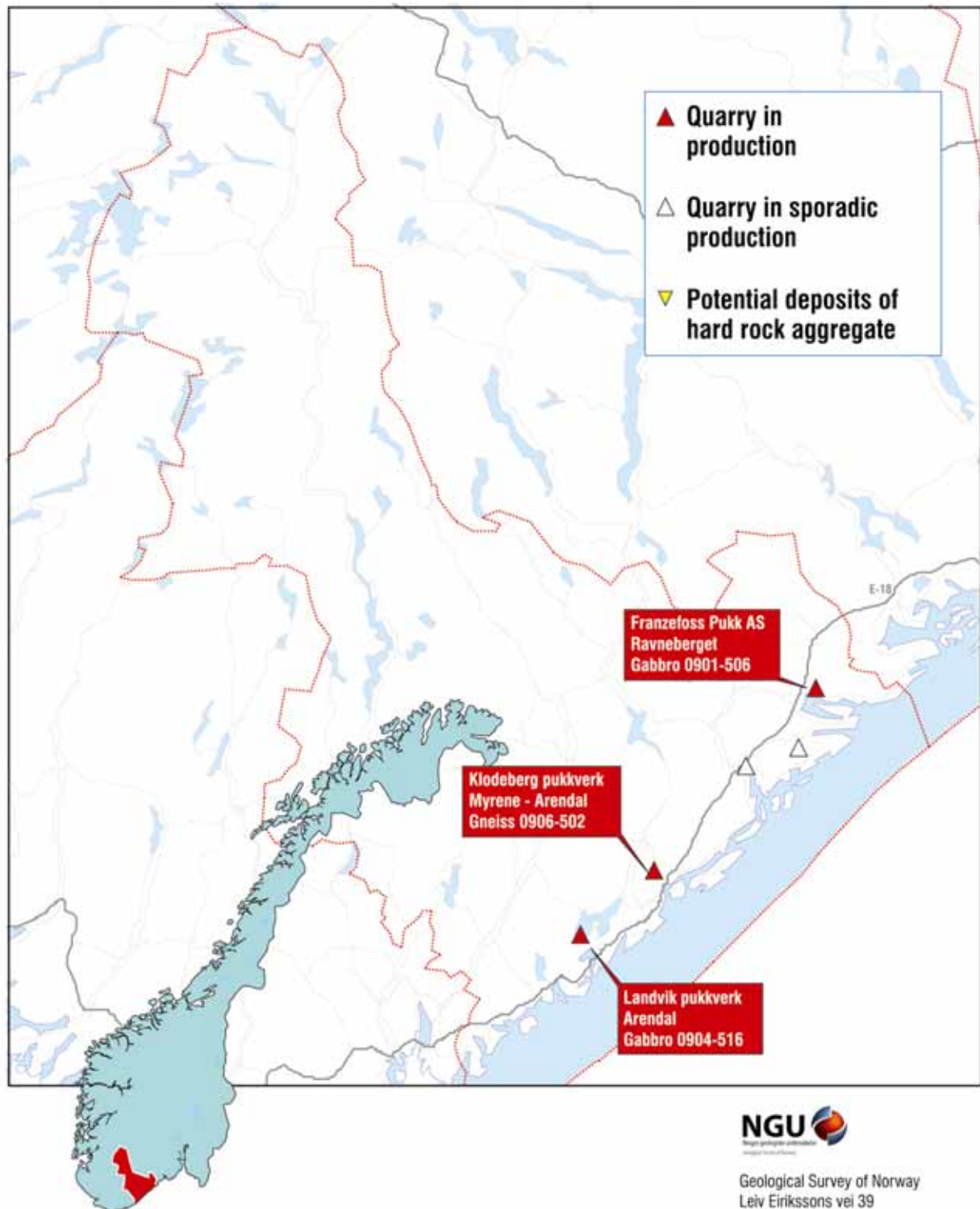


April 2003



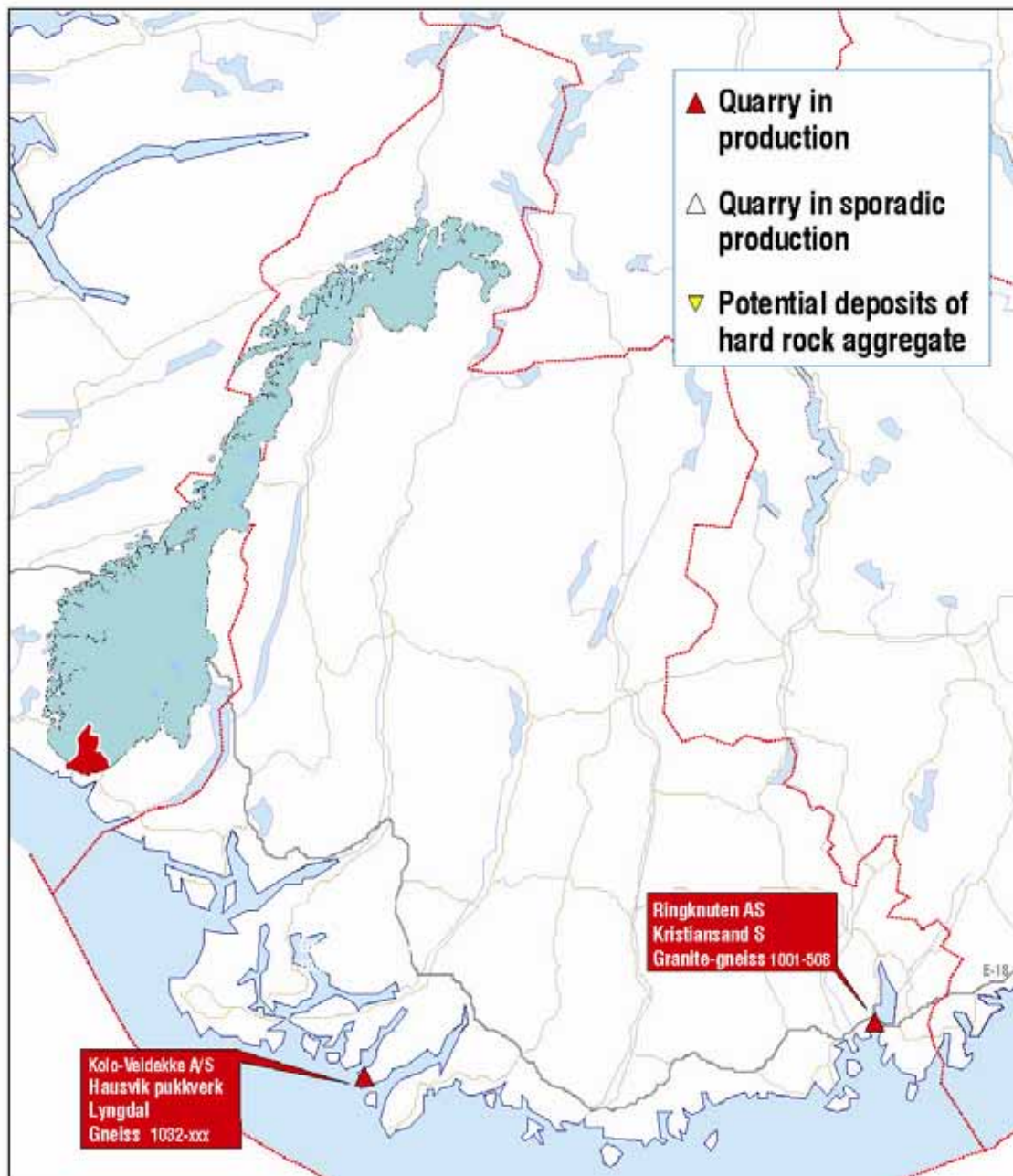
Geological Survey of Norway
Leiv Eirikssons vei 39
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QUARRIES AND POTENTIAL DEPOSITS OF HARD ROCK AGGREGATE IN AUST-AGDER COUNTY



April 2003

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

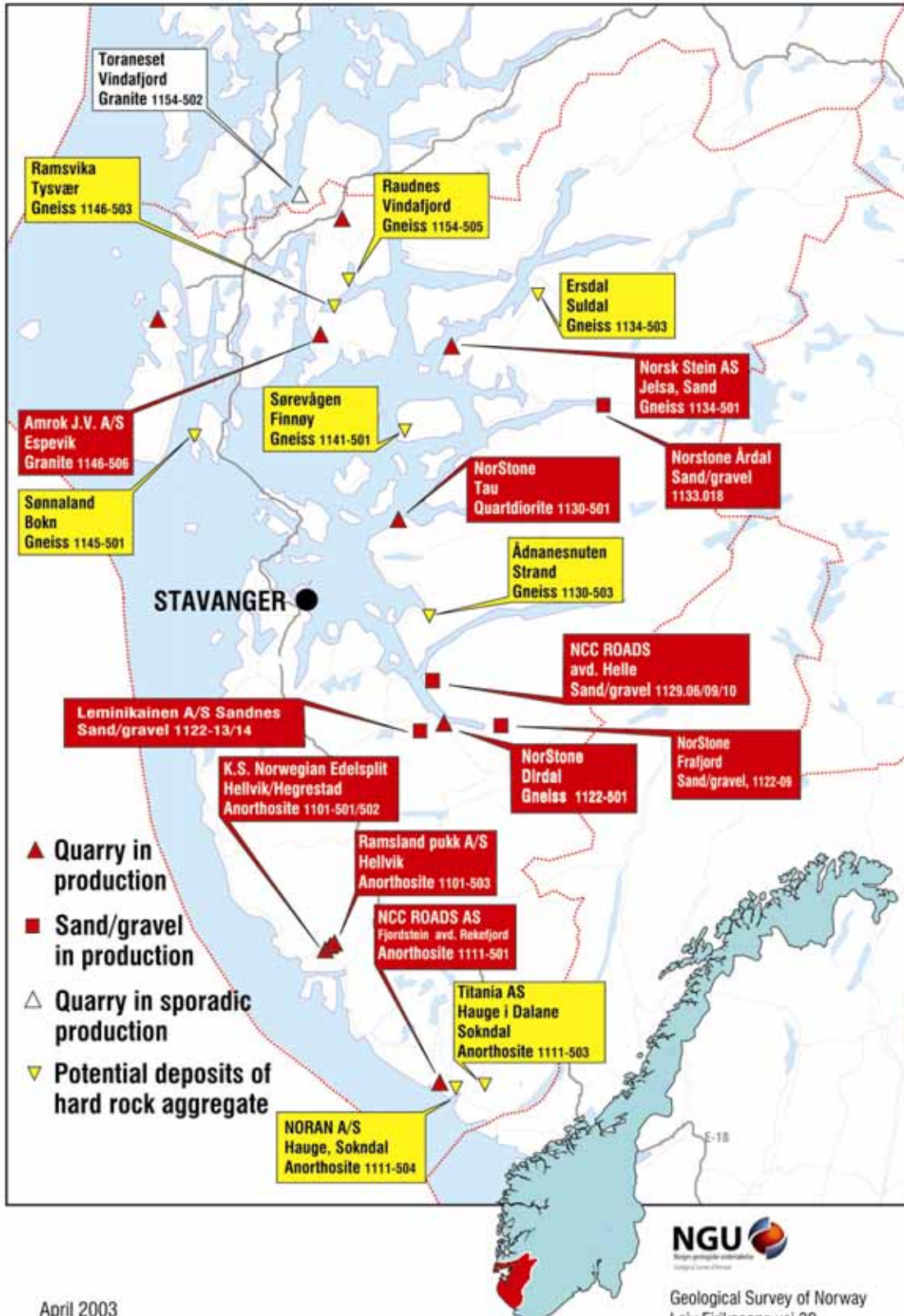


Mars 2003



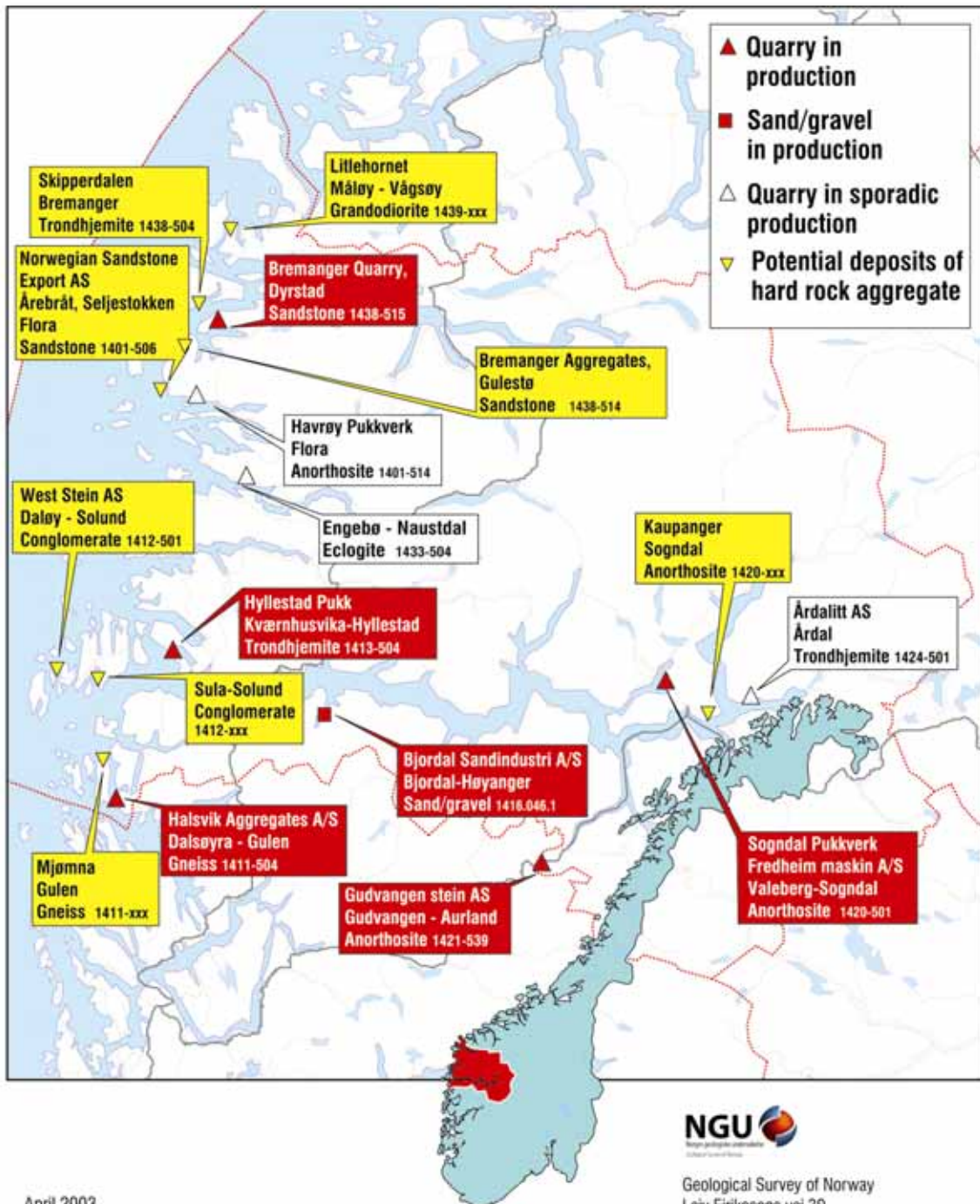
Geological Survey of Norway
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QUARRIES AND POTENTIAL DEPOSITS OF HARD ROCK AGGREGATE IN ROGALAND COUNTY



April 2003

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

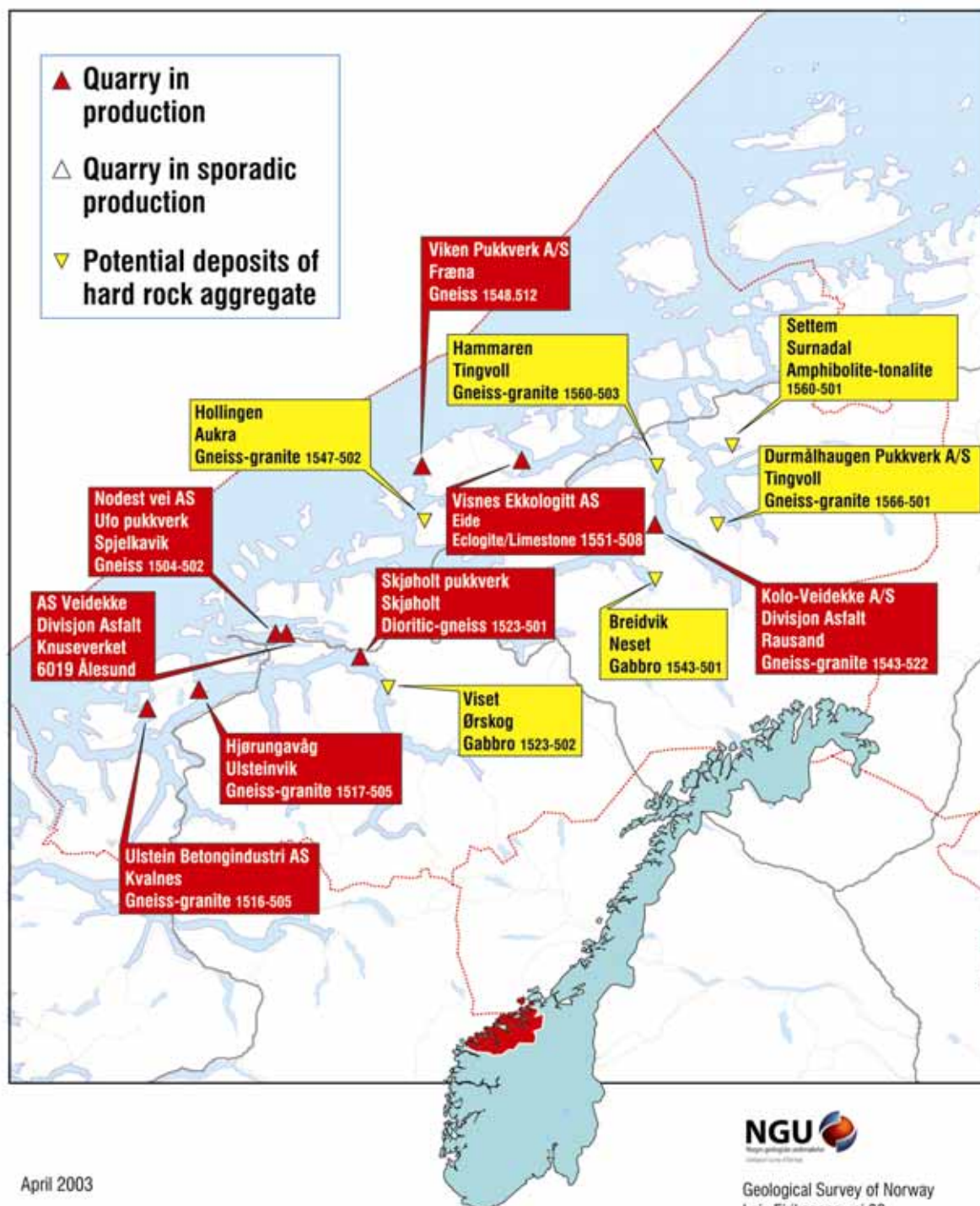


April 2003



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



April 2003

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

