

TABLE 3
Main composition of Verrino Member sandstones

			samples	SC-990	SC-991	SC-992	SC-993	SC-994	SC-995	SC-996	SC-998	SC-999
			Petrographic classes									
			Quartz									
NCE	Qm		Quartz (single crystals)	49	81	120	83	74	113	80	87	102
NCE	Qp		Polycrystalline quartz with tectonic fabric	20	22	11	33	38	16	13	4	14
NCE	Qp		Polycrystalline quartz without tectonic fabric	5	8	7	21	25	13	9	2	3
NCE	Qm		Quartz in metamorphic r.f	4	10	1	14	8	3	7	2	4
NCE	Qm		Quartz in plutonic r.f.	11	6	3	16	9	5		10	6
NCE	Qm		Quartz in plutonic or gneiss r.f.	1			1		1			
NCE	Qm		Calcite replacement on quartz		8	3	3	9	6	6	14	18
			Feldspar									
NCE	K	F (K+P)	K-Feldspar (single crystals)	17	34	12	14	18	16	25	28	10
NCE	K		K-Feldspar in plutonic r.f.	11	12	1	3	7	2	7	1	
NCE			Calcite replacement on k-Feldspar		3		7	5	3		5	5
NCE	P		Plagioclase (single crystals)	15	50	53	51	54	54	53	55	51
NCE	P		Plagioclase in metamorphic r.f	16	4	3	13	13	4	6		1
NCE	P		Plagioclase in plutonic r.f.	14	1	2	16	22	8	9	14	11
NCE	P		Plagioclase in plutonic or gneiss r.f.	5	1		2					
NCE	P		Plagioclase in volcanic r.f.									
NCE	P		Calcite replacement on plagioclase	1	6		5	8	3	4	10	6
			Micas and Chlorites									
NCE			Micas and chlorite (single crystals)	2	18	54	24	22	8	7	10	20
NCE			Micas and chlorite in plutonic r.f.	7					1		9	1
NCE			Micas and chlorite in metamorphic r.f.	9			7		1	1		
			Lithic Fragment (L)									
NCE	Lv - Lvm	L (Lm+Lv+Ls) (Lvm-Lsm)	Volcanic lithic with microlitic texture									
NCE	Lv- Lvm		Volcanic lithic with felsitic granular texture			2						
NCE	Lv-- Lvm		Volcanic lithic with felsitic seriate texture		1			3		1		
NCE	Lv- Lvm		Volcanic lithic with lathwork texture									
NCE	Lv- Lvm		Volcanic lithic with vitric texture									
NCE	Lv- Lvm		Serpentinite			1	1				1	
NCE	Lm - Lm2-Lvm		Serpentine-schist	3	3	4	1	3	2	1		4
NCE	Lsm-Lm - Lm1		Phyllite	1	2	21	1	5	4	8	2	2
NCE	Lsm-Lm - Lm1		Fine-grained schist	11	2	2	5	10	6	12		6
NCE	Lsm-Lm - Lm2		Fine-grained gneiss	5	5	1	6	5	6	2		2
NCE	Lsm-Ls		Siltstone	2			4	9	5	5		1
NCE	Lsm-Ls		Radiolarian chert	7	9	5	6		6	5	3	
NCE	Lsm-Ls		Shale	1	1			1	2	2		
			Dense Minerals									
NCE			Dense minerals (single crystals)	2	7	7	2	5	1	8	2	4
NCE			Dense minerals in plutonic r.f.	2								
NCE			Dense minerals in metamorphic r.f.	1								
NCE			Opaque minerals	3	9	2	7	5	8	1	3	11
			Extrabasinal carbonate (CE)									
CE	Lsm-Ls		Dolostone	2	1			1		1		1
CE	Lsm-Ls		Micritic Limestone	9	4	11	7	7	9	6	6	6
CE	Lsm-Ls		Sparitic Limestone	20	9	5	6	7	8	6	12	
CE	Lsm-Ls		Microsparitic Limestone	2	3	6	4	5	4	3	9	11
CE	Lsm-Ls		Biomicritic Limestone	3	4	16	5	8	13	7	9	22
CE	Lsm-Ls		Biosparitic Limestone	1	4		3	8	9	12	2	8
CE	Lsm-Ls		Fossil (single skeleton)			2					1	
CE	Lsm-Ls		Fossil in Limestone /Dolostone						1			2
CE	Lsm-Ls		Single spar (calcite)			1				3		1
CE	Lsm-Ls		Single spar (dolomite)									
			Intrabasinal carbonate (CI) and intrabasinal non-carbonate (NCI)									
CI	CI		Bioclast		1	1	1				1	
CI	CI		Peloid									
NCI	NCI		Glauconite	1			2	4	4	1	1	4
NCI	NCI		Rip-Up clasts (argillaceous and siltitic)									
			Interstitial component (matrix and cement)									
			Siliciclastic matrix	5		7	5	1	11	14	9	10
			Carbonate matrix (micrite)			2					14	10
			Carbonate cement (pore-filling)	10	22	52	7	15	20	8	15	23
			Carbonate cement (patchy calcite)	2	18	42	7	12	12	4	7	13
			Calcite replacement on undeterm. Grain		12	13	2	9	3	3	1	9
			Siliceous cement	1	6		2	5	1	1		2
			Phyllosilicate cement	2	12		8	21	10	8	4	5
			Oxid-Fe cement	1		6	1			1		7
			Alterite	2	3			10		9		2
			Total	217	287	306	337	348	288	263	257	267