

General Information			
Sample Name (IGSN)	EX1504L3-D5-1		
Describer	Kevin Konrad		
Sample Location	Swordfish Seamount		
Lithology prefix	plagioclase		
General Lithology	trachyte		
Texture 1	vesicular		
Texture 2	porphyritic		
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	95	Check [Or = Pr + Rf]	OK
Whole Rock Replaced (%)	5	Check [Or = Pr + Rf]	OK
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%]	OK
Total Groundmass Present (%)	98	Check [Or = Pr + Rf]	OK
Total Groundmass Replaced (%)	2	Check [Or = Pr + Rf]	OK
Whole Rock Summary	A fresh fine grained basalt with rare plagioclase. Sample contains large oval vesicles that are mostly alteration free.		
Thin Section Summary	A fairly fresh plagioclase rich basalt (likely trachytic) with small amphibole and clinopyroxene microcrysts. Plagioclase displays spongy textures with a rims being disaggregated. Amphibole contains black rims expressing disequilibrium textures. Vesicles display no infilling.		

Whole Rock



Transmitted Light



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]		7		1		1	10	81
Present (%) [Pr]		6		1		1	10	79
Replaced / Filled (%) [Rf]		1		0		0	0	2
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.4		0.1		0.1	0.1	
Maximum Size (mm)		0.8		0.3		0.15	2	
Modal Size (mm)		0.5		0.2		0.1	0.3	
Shape		sub-euhedral		euhedral		subhedral	rounded	
Habit								
Zonation Type		twinning						
Zonation Extent								
Exsolution Type								
Special Features								
Comments		Some spongy textures with rims in disequilibrium				Amphibole - Some black alteration rims.		

Cross Polarized



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]		20			10			70
Present (%) [Pr]		15			10			0
Replaced / Filled (%) [Rf]		5			0			70
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.1			0.05			
Maximum Size (mm)		0.2			0.1			
Modal Size (mm)		0.15			0.075			
Shape		laths						
Habit		subhedral			euhedral			
Comments		Some spongy textures						Alteration mix of mush and glass.