

General Information			
Sample Name (IGSN)	EX1708-D15-3a		
Describer	Kevin Konrad		
Sample Location	Mozart Seamount		
Lithology prefix	Plagioclase		
General Lithology	Basalt		
Texture 1	Altered		
Texture 2			
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	45	Check [Or = Pr + Rf]	OK
Whole Rock Replaced (%)	55	Check [Or = Pr + Rf]	OK
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%]	OK
Total Groundmass Present (%)	55	Check [Or = Pr + Rf]	OK
Total Groundmass Replaced (%)	45	Check [Or = Pr + Rf]	OK
Whole Rock Summary	A small (~8 cm diameter) FeMn nodule with a fresh plagioclase phyric basalt nodule within. The basalt has a few unfilled vesicles and is cryptocrystalline. The FeMn crust is 2 - 3 cm thick and contains some regions with phosphorite.		
Thin Section Summary	A plagioclase rich basalt with phenocrysts up to 6 mm in length. The groundmass consists of plagioclase laths, partially altered clinopyroxene and glass. Small palagonite filled vesicles are common.		



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]		5					5	
Present (%) [Pr]		5					4	
Replaced / Filled (%) [Rf]		0					1	
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.3					0.1	
Maximum Size (mm)		6					0.35	
Modal Size (mm)		6					0.2	
Shape		Subhedral					Rounded	
Habit								
Zonation Type		Albite Twinning						
Zonation Extent		Common						
Exsolution Type								
Special Features								
Comments		Two ~0.3 mm phenocrysts and one 6 mm					Palagonite rims/full infilling	



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]		40						60
Present (%) [Pr]		35						10
Replaced / Filled (%) [Rf]		5						50
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.1						
Maximum Size (mm)		0.3						
Modal Size (mm)		0.25						
Shape		subhedral						
Habit		laths						
Comments								Mostly altered glass, some alteration product (talc?) and an uncertain amount of spinel