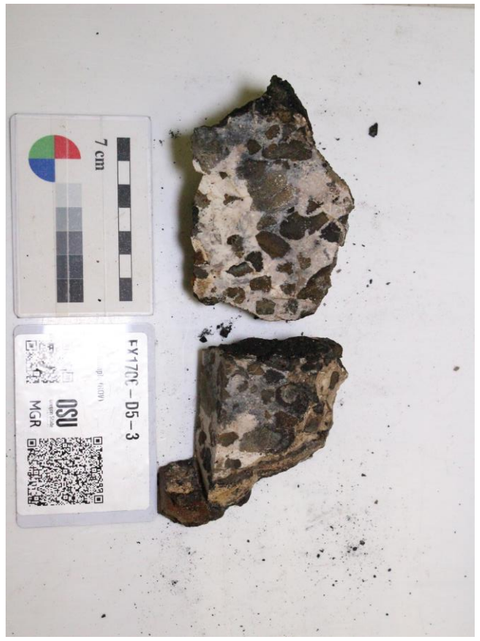
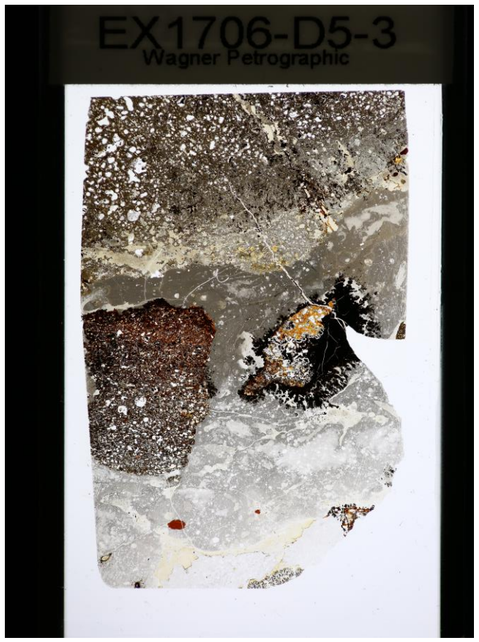
General Information			
Sample Name (IGSN)	EX1706-D5-3		
Describer	Kevin Konrad		
Sample Location	"Sally" Seamount		
Lithology prefix	Plagioclase		
General Lithology	Basalt		
Texture 1	Highly Altered		
Texture 2	Vesicular		
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	10	Check [Or = Pr + Rf]	OK
Whole Rock Replaced (%)	90	Check [Or = Pr + Rf]	OK
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%]	OK
Total Groundmass Present (%)	0	Check [Or = Pr + Rf]	OK
Total Groundmass Replaced (%)	100	Check [Or = Pr + Rf]	OK
Whole Rock Summary	A volcanic breccia with a phosphorite matrix. The basalts are variable with some plagioclase phyric clasts, some aphyric altered glass clasts and olivine-basalts. All the basalts appear heavily altered. Sample has a FeMn coat.		
Thin Section Summary	Altered plagioclase basalts within a thick phosphorite matrix. The phosphorite contains some preserved carbonate tests (variety of foraminifera) and a single euhedral calcite grain. The basalt clasts are highly altered vesicular basaltic glass with plagioclase microcrysts (partially to completely sericite) and some fine iddingsite grains. The vesicles either have palagonite rims and are otherwise unfilled or contain zeolite infill. There is a single fresh clinopyroxene macrocryst.		

Whole Rock



Transmitted Light



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]		10		1			40	
Present (%) [Pr]		1		1			20	
Replaced / Filled (%) [Rf]		9		0			20	
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.1		0.25			0.1	
Maximum Size (mm)		0.25		0.25			0.5	
Modal Size (mm)		0.15		0.25			0.25	
Shape		sub-euhedral					rounded	
Habit								
Zonation Type								
Zonation Extent								
Exsolution Type								
Special Features								
Comments		Almost entirely recrystallized to sericite.		Some minor (talc?) rimming			All palagonite rimmed. Some have zeolite or phosphorite infill. Some unfilled	Fe-oxide altered glass

GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]	5						95	
Present (%) [Pr]	0						0	
Replaced / Filled (%) [Rf]	5						95	
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.01							
Maximum Size (mm)	0.1							
Modal Size (mm)	0.05							
Shape	anhedral							
Habit								
Comments	Iddingsite						Fe-oxide altered glass	

Cross Polarized