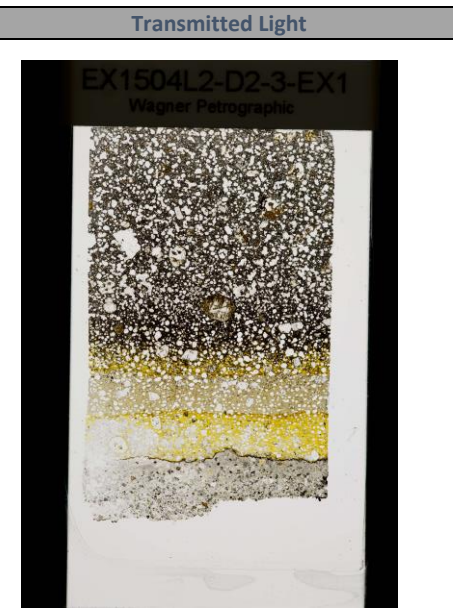


General Information			
Sample Name (IGSN)	EX1504L2-D2-3		
Describer	Kevin Konrad		
Sample Location	North French Frigate Shoals Seamount		
Lithology prefix	Olivine		
General Lithology	basalt		
Texture 1	Vesicular		
Texture 2	Porphyritic		
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	50	Check [Or = Pr + Rf]	OK
Whole Rock Replaced (%)	50	Check [Or = Pr + Rf]	OK
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%]	OK
Total Groundmass Present (%)	20	Check [Or = Pr + Rf]	OK
Total Groundmass Replaced (%)	80	Check [Or = Pr + Rf]	OK
Whole Rock Summary	A basalt with fine grained groundmass, highly vesicular with vesicle infilling on the edges of the sample but not in the core. Fully recrystallized olivine found throughout. Thin Mn coating.		
Thin Section Summary	A olivine phyric basalt that grades into a glass flow top. The thin section is highly vesicular, however the vesicles decrease deeper into the rock. Olivine is 0-100% replaced by iddingsite depending on the location in the rock. The olivine are almost 100% fresh in the glassy sections but almost 100% replaced in the vesicular sections. The glass is surprisingly fresh with only minimal replacement. Vesicles are partly filled with zeolites.		



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]	20						60	20
Present (%) [Pr]	15						10	4
Replaced / Filled (%) [Rf]	5						50	16
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.025						0.25	
Maximum Size (mm)	1.25						1	
Modal Size (mm)	0.5						0.3	
Shape	subhedral						circular	
Habit								
Zonation Type								
Zonation Extent								
Exsolution Type								
Special Features	Some spinel inclusions							
Comments	Partly replaced with iddingsite, some samples are only ~10% replaced.						Mostly zeolite infill	



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]	5	10		5			80	
Present (%) [Pr]	2	10		3			10	
Replaced / Filled (%) [Rf]	3	0		2			70	
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.015	0.025		0.01				
Maximum Size (mm)	0.025	0.04		0.02				
Modal Size (mm)	0.02	0.03		0.01				
Shape	anhedral	subhedral		anhedral				
Habit		laths						
Comments	Except for glassy sections all are ~100% replaced by iddingsite						Seems altered in the deeper sections of the rock. The glassy band is quite fresh however.	