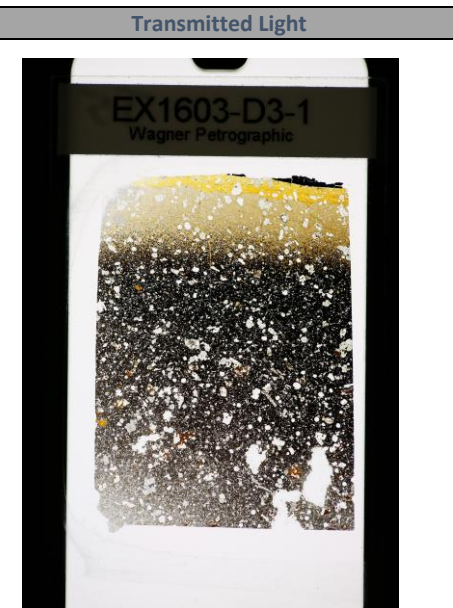


General Information			
Sample Name (IGSN)	EX1603-D3-1		
Describer	Kevin Konrad		
Sample Location	Hohonu Moana		
Lithology prefix	olivine		
General Lithology	basalt		
Texture 1	glassy		
Texture 2			
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	90	Check [Or = Pr + Rf]	OK
Whole Rock Replaced (%)	10	Check [Or = Pr + Rf]	OK
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%]	OK
Total Groundmass Present (%)	90	Check [Or = Pr + Rf]	OK
Total Groundmass Replaced (%)	10	Check [Or = Pr + Rf]	OK
Whole Rock Summary	A olivine and plagioclase (?) basalt with some large vesicles/fractures and a moderately thick Mn-crust. Grades from a glassy rind to a coarser core. Thin section captures the rind and the finer grained areas of the basalt.		
Thin Section Summary	A olivine rich basalt with a glassy rind. The thin section displays the gradation from interior to rind with a fine grained core, glassy rind and a palagonite-altered outer rind. Olivine grains are coarse and are best preserved in the glassy rind. Iddingsite recrystallization is common but not always pervasive in the core of the rock. Plagioclase microcrystals are pervasive throughout the rock.		



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]	20						20	60
Present (%) [Pr]	10						10	40
Replaced / Filled (%) [Rf]	10						10	20
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.25						0.02	
Maximum Size (mm)	0.8						0.5	
Modal Size (mm)	0.7						0.4	
Shape	sub-euhedral						Rounded	
Habit								
Zonation Type								
Zonation Extent								
Exsolution Type								
Special Features	Extensive iddingsite recrystallization							
Comments							Partial zeolite infilling.	Outer rim is altered to palagonite.



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]	5	15		5	5		70	
Present (%) [Pr]	2	15		3	5		60	
Replaced / Filled (%) [Rf]	3	0		2	0		10	
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.01	0.01		0.01	0.005			
Maximum Size (mm)	0.02	0.1		0.02	0.01			
Modal Size (mm)	0.015	0.05		0.015	0.007			
Shape	anhedral	subhedral		anhedral	anhedral			
Habit								
Comments	Typically iddingsite				difficult to tell how much spinel is present		Becomes cryptocrystalline towards the interior of the rock.	