

General Information			
Sample Name (IGSN)	EX1603-D3-2		
Describer	Kevin Konrad		
Sample Location	Hohonu Moana		
Lithology prefix	plagioclase		
General Lithology	basalt		
Texture 1			
Texture 2			
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 (%)	95	Check [Or = Pr + Rf]	OK
Total Groundmass Replaced (%)	5	Check [Or = Pr + Rf]	OK
Whole Rock Summary	A relatively fresh looking basalt with occasional glomerocrysts. Some large vesicles that are completely infilled by a whitish secondary mineral. Very little olivine found within the whole rock, thin section not necessarily representative of the olivine abundance.		
Thin Section Summary	A plagioclase and olivine phyric basalt. The phenocrysts are mostly found in a single glomerocrystic cluster in the thin section. Groundmass consists of fine grained plagioclase, glass, spinel and olivine/clinopyroxene. Samples contained some unfilled vesicles.		



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]	5	10					10	75
Present (%) [Pr]	4	10					10	70
Replaced / Filled (%) [Rf]	1	0					0	5
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.15	0.25					0.15	
Maximum Size (mm)	0.3	1					0.25	
Modal Size (mm)	0.25	0.7					0.2	
Shape	subhedral	euhedral					rounded	
Habit								
Zonation Type		twinned, sector						
Zonation Extent		pervasive						
Exsolution Type								
Special Features								
Comments	One grain is recrystallized to iddingsite. Rest are clean						No infill	Some alteration patches (small)



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]	5	25		5				65
Present (%) [Pr]	4	25		5				60
Replaced / Filled (%) [Rf]	1	0		0				5
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.01	0.01		0.01				
Maximum Size (mm)	0.02	0.05		0.02				
Modal Size (mm)	0.02	0.035		0.02				
Shape	anhedral	subhedral		anhedral				
Habit								
Comments	Difficult to distinguish cpx from olivine in GM			Difficult to distinguish cpx from olivine in GM				Some alteration and spinel within.