		General Information			
Sample Name (IGSN)	EX1706-D3-3				
Describer	Kevin Konrad				
Sample Location	Unnamed Seamount N. of Johnston Atoll				
Lithology prefix	Three-phase				
General Lithology	Basalt				
Texture 1	Highly Altered				
Texture 2	Vesicular				
Whole Rock Original (%)	100	Check [ Ph + Vs + Gm = 100% ]	ОК		
Whole Rock Present (%)	15	Check [ Or = Pr + Rf ]	ОК		
Whole Rock Replaced (%)	85	Check [ Or = Pr + Rf ]	ОК		
Total Groundmass Original (%)	100	Check [ Gp + Gl + Ms = 100% ]	ОК		
Total Groundmass Present (%)	10	Check [ Or = Pr + Rf ]	ОК		
Total Groundmass Replaced (%)	90	Check [ Or = Pr + Rf ]	ОК		
Whole Rock Summary		basalt with coarse olivine (100% recrystallized to iddingioclase phenocrysts. No obvious glass rinds are visablingilled with phosporite.			

**Thin Section Summary** 





PHENOCRYSTS [Ph]	OL	PLAG	ОРХ	СРХ	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [ Or ]	5	10		5			20	
Present (%) [ Pr ]	0	5		3			19	
Replaced / Filled (%) [ Rf ]	5	5		2			1	
Check [ Or = Pr + Rf ]	ОК	ОК	OK	ОК	OK	OK	OK	OK
Minimum Size (mm)	0.5	0.1		0.1			0.5	
Maximum Size (mm)	2.5	2		0.3			3	
Modal Size (mm)	1	1.25		0.15			1.25	
Shape	sub-anhedral	subhedral		anhedral			subrounded	
Habit		spongy						
Zonation Type		None						
Zonation Extent								
<b>Exsolution Type</b>								
Special Features	Recrystallized to iddingsite	Very thin laths (width = 0.1 mm max)		Partially altered to talc				
Comments		Vary from completely to partial recrystallized to sericite		Typically have fresh cores			Contain either halos or rims of alteration. No significant infill.	A mottled mix of alteration products, spinels and plagioclase laths.

A highly altered alkaline basalt with olivine phenocrysts recrystallized to iddingsite, clinopyroxene partial recrystalized (fine grained talc) and plagioclase mostly altered to sericite. The alteration products infer the sample experience hydrothermal alteration as well as low temperature seawater alteration. Groundmass is mostly recrystallized and composed of plagioclase laths, spinels and secondary alteration products. The sample contained irregular-subrounded unfilled vesicles.

GROUNDMASS [Gp]	OL	PLAG	ОРХ	CPX	SPINEL	OTHER	GLASS [GI]	MSTASIS [Ms]
Original (%) [ Or ]								100
Present (%) [ Pr ]								10
Replaced / Filled (%) [ Rf ]								90
Check [ Or = Pr + Rf ]	ОК	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)								
Maximum Size (mm)								
Modal Size (mm)								
Shape								
Habit								
Comments								A mottled mix of alteration products, spinels and plagioclase laths.

