DREDGE 3
S. Johnst
Is Ridge

AMPLE ID	Mn CHEM	Pt & Au	REE	Si Chem	DP.Sect.	35mm Pho	Archive	Paleo					
BMDS-3	Bulk			Phosphorite	✓				Alice doing Basalt Analysis				

This is our only sample from this Dredge - Alice has it

Sample Description

Cruise I.D: L5-83-HW

Sample I.D: Sta: 05 BMDS 3

Location: S. Johnston Ridge

23 x 20 x 9

Size: _____ Weight: 3 kg

Mn crust thickness:

Total: min: 0.7 max: 1.2 ave: 1.0

Inner crust: min: — max: — ave: —

Outer crust: min: _____ max: _____ ave: _____

Surface texture: Smooth to crudely Botryoidal

Internal structure: _____

layered: _____
laminated: _____
massive: X
porous: _____
dendritic: _____
other: _____

Mineralogy (XRD): _____

ssociated alteration, phosphorite, or hydrothermal deposits: _____

Substratum:

Rock type: Basalt + (Phosphorite) XRD shows this to be phosphorite smectite

Description: A layer of white ~~phosphorite~~ underlies the crust ~ 0-3 cm Thick; Next is gray moderately vesicular basalt w/ brown alteration rim.

Mineralogy (XRD): _____

BMDS 3

F7-86-HW
Karin Ridge
Johnston Is

Analyses and subsamples:

analysis:	analyst:
Chemistry: (OUTR)	Lisa Gein
A: bulk crust, sent for [illegible]	0-11 mm
B: phosphate, gen silicate chem	5mm
XRD:	Lisa Gein
A: bulk crust	
B: phosphate	
D.P.: T.S. - includes crust + ~~phosphate~~ + basalt from separate piece Alice had already cut	Lisa Gein

A crusty bulk: sample sent for chemistry (Manheim pkg. [illegible] mm thick, 15.2 gms sent

B = phosphate: white layer between crust & basalt. Has flecks [illegible] of Mn in it. Sent 7.37 gms for chem. 5 mm thick. Sent for major [illegible], minors & trace (ICP) & volatile.

BMDS3

F7-86-HW
Karin Ridge
Johnston Is

Cruise Id: EZ-86-HW Size _____ (cm) Location: Johnston Island ridge

Sample Id: BMDS3-2 Weight: _____ (kg) Depth: _____ (m)

Mn Crust Description

Surface Texture: _____

Mn Crust Thickness (mm):

Min: _____ Max: _____ Ave: _____

Layers (Outer to Inner)(mm):

	Min	Max	Ave	Texture & Color
1.				
2.				
3.				
4.				
5.				
6.				

*
Alice has this sample. She has numbered it BD3-A1.

Comments and XRD Mineralogy:

ANALYSES

Subsample Number	Analysis	LayerThickness

Substrate Description

Rock Type: Basalt (Alkalic)

Description:

Biology ?:

Described By: Alice Davis

Subsampled By: