DREDGE 12
Maug Is.
Caldera

SAMPLE ID	Mn CHEM	Pt & Au	REF	Si Chem	P.Sect.	35mm Pho	Archive	Paleo	XRD			
D12-1				✓	PS				1 sample			
D12-2					T							

Sample Description

Cruise I.D: ~~L5-83-HW~~ Mariana Islands

Sample I.D: Sta: D12-1

Location: Caldera of Maug Volcano

2 rks
Size: 6x5x4.5cm
4.5x2.5x2 cm

Weight: 85g

Depth: 172-55m

Mn crust thickness:

Total: min: max: ave:

Inner crust: min: max: ave:

Outer crust: min: max: ave:

Surface texture:

Internal structure:

layered:
laminated:
massive:
porous:
dendritic:
other:

Mineralogy (XRD):

ssociated alteration, phosphorite, or hydrothermal deposits:

Fe oxidized

Substratum:

Rock type: Volcanic Cobbles

Description: Extremely Fe oxidized red-orange on outside, very fine grained, shiny. magnetite inside w/ a few vesicles (basalt?) The smaller cobble is also Fe oxidized & more scoreaceous looking. Its gray w/ abundant tiny vesicles.

Fresh surface on magnetite nodule turned red after cut

Mineralogy (XRD):

MARIANAS ISL.
D12-1

Analyses and subsamples:

analysis:	analyst:
XRD	Charlaine
D12-1-I: outer layer (?) magnetite	
D12-1-II: inner layer	
D12-1-III: composite	
D12-1-IV: basalt? cobble - bulk	
Chemistry	USGS Menlo Park
D12-1-A. Composite ICP	
Polished Thin Section	Marie Petrographics
D12-1B - (See Back) cc	9 gms of material
D12-1-A Resubmitted for HgChem	

Magnetite - Siderite Nodule
MARIANA IS
D12-1 TT192

Then →

D12-1 Mariana Is
TT192

Mariana Islands

Sample Description

Cruise I.D: L5-83-HW Sample I.D: Sta: D 12-2 Location: Caldera of Maug Volcano

Size: _____ Weight: .17g Scraped Mn-powder

Mn crust thickness:

Total: min: ____ max: ____ ave: ____

Inner crust: min: ____ max: ____ ave: ____

Outer crust: min: ____ max: ____ ave: ____

Surface texture: _____

Internal structure: _____

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

Mineralogy (XRD): _____

Associated alteration, phosphorite, or hydrothermal deposits:

Substratum:

Rock type: _____

Description: _____

Mineralogy (XRD):

Analyses and subsamples:

analysis:	analyst:
Chemistry	