DREDGE 13
Supply Reef

SAMPLE ID	Mn CHEM	Pt & Au	REE	Si Chem	P.Sect.	35mm Pho	Archive	Paleo				
DB-1	Bulk											

Sample Description

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

Sample I.D: Sta: D 13-1

Location: Supply Reef

Depth: 1650-3600m

Size: 4X3X.5cm are Weight: 785g

2 bags of small wafer like p...

Mn crust thickness: ~~0~~

Total: min: max: ave:

Inner crust: min: max: ave:

Outer crust: min: max: ave:

Surface texture: Granular

Internal structure:

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

Mineralogy (XRD):

Associated alteration, phosphorite, or hydrothermal deposits:

Substratum:

Rock type: Manganiferous Sandstone & Basalt

Description: Very fine grained closely packed & fairly well cemented Mn-sst. A few fine grained basalt cobbles which have abundant vesicles & some plag inclose a olivine phenocrysts

Mineralogy (XRD):

Marianas
D13-1

Analyses and subsamples:

analysis:	analyst:
Sampled for Chemistry	F. Brown Reston USGS
D13-1-A: bulk-Manhemy kg	
XRD	
D13-1-I: bulk Mn-sst	Charlaine
D13-1-II: " basalt	

The chips are different colors because some were dried out at time of photo

D13

Note the dense submettallic Mn on several chips