

Introduction

Environmental Pollutants

- Found throughout the Arctic
- Break down more slowly in the Arctic •
- Higher levels in areas of human activity

Microbial diversity

- More diverse communities can better cope with environmental changes
- Diversity indices can be used to characterize • microbes within a community and between different communities
- Understanding the diversity provides insight into possibilities for bioremediation

Objective

To determine a baseline database of microbial diversity for understanding the diversity of the region and understanding the potential for microbial remediation of contaminated Arctic soils

Samples

• All samples were collected from sites around Cambridge Bay

Location	Label
Cambridge Dump	D
Metal Dump	Μ
Tractor Dump	TD
Cambridge Bay Tank Farm	TF

Figure 1. Labeling of samples

Characterization of bacterial communities in Arctic soil Gursharan Uppal, Jonathan Van Hamme, and Eric Bottos

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sample