


BIOREMEDIATION OF OIL BASE MUD CUTTINGS & DRILLING WASTE.



S O S

E N V I R O N M E N T A L

In-Situ Bioremediation of Hydrocarbon Containing Cuttings

- Controls & limits environmental liability
 - Fast cost effective
 - Can be handled by drilling crew
 - No hauling of drill cuttings
 - No land farm risk
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- A decorative graphic consisting of several parallel white lines of varying lengths, slanted diagonally from the bottom right towards the top right, located in the lower right quadrant of the slide.

GUIDELINES
(I.E. OIL SPILL REMEDIATION
EQUIVALENT)

Not burial of “contaminated” waste

In-situ bio-remediate cuttings to <1% TPH

Put in WBM Pit cover with 3ft soil or spread

No liner required except for Cat. 1A & 1B:

Bioremediation of Oil Base Drill Cuttings

- Determine extent of contamination to be treated (TPH, Volume - depth and surface area)
- Spread cuttings in biocell 12 to 16" deep (2' max)
- Spread & till in hay or mulching materials as available
- Apply *microbes & nutrients* (spray, till, or inject)
- Apply and re-till for good contact and aeration
- Keep moist - Paper towel test
- Monitor site periodically (samples, etc.)
- At TPH level <1% - put in WBM pit and close.

PIT LAYOUT



PIT LAYOUT



PIT CONSTRUCTION



IN-SITU BIOREMEDIATION



Pit Closure

