

**BEFORE WINTER BEEF UP** your

# BERMS

## **REMEMBER!**

- **Compaction, Compaction, Compaction**
- **Berms must be AT LEAST mid-axle high to largest equipment on road**
- **Larger berms may be needed at steep grades and sharp turns**



Berms **deteriorate over time** because of:

- **rain**
- **wind**
- **sloughing**
- **settling**
- **impact from equipment**
- **undercutting (instability of outer bank)**

## **EARTHEN & BROKEN ROCK BERMS**

**Deflect tires so vehicles can return to haul road**

- **Make inside slope steep**
- **Base width should be at least the width that an axle-height berm would have, if both the inside and outside slopes were at the material's angle of repose.**

## **BOULDER BERMS**

**Use friction forces between boulder and road to impede over travel.**

- **Additional road width is required to allow room for the equipment to push the boulders**
- **Do not place boulders right at the edge of the drop off.**