

Appendix D

BLM Reclamation Plan Guidelines

Appendix D

BLM Reclamation Plan Guidelines

Introduction

The following establishes guidelines to be used during reclamation, when necessary through Arizona on lands administered by the Bureau of Land Management.

Water Diversions

Water diversions will be constructed as needed to control surface water runoff and soil erosion. Water diversions typically will consist of waterbars constructed at the following spacing intervals:

| <u>Percent slope</u> | <u>Spacing Interval</u> |
|----------------------|-------------------------|
| Less than 1% | 400' |
| 1-5% | 300' |
| 5-15% | 200' |
| 15-25% | 100' |
| More than 25% | 50' |

If diversion of water from the right-of-way would result in accelerated erosion in undisturbed areas, water bars shall not be constructed. Furthermore, if the right-of-way has a side slope approximately one-third or more of the slope along the length of the right-of-way, water bars may not be constructed. Exceptions to spacing intervals will be upon approval of the Authorized Officer.

Contouring

When sufficiently abundant, overburden and topsoil will be stockpiled during construction for use during reclamation. Prior to reseeding the topsoil will be redeposited (shaped and contoured) to resemble surrounding topography. Ripping or plowing compacted soils may be necessary in some areas and will be addressed on a case by case basis.

Reseeding

Reseeding will be accomplished in June or July to coincide with the "rainy" season. Drill seeding is recommended except in those areas where not feasible (e.g. steep terrain, rocky terrain). Drill seeding should be accomplished using a disc type drill with two boxes for various seed sizes. Drill rows will be 7 to 14 inches apart. The seed will be planted not less than 1/2 inch deep or more than 1 inch deep. The seeder will be followed with a drag, packer, or roller to ensure uniform coverage and adequate compaction.

Broadcast seeding will be required where drill seeding is not feasible. In these cases seed quantities must be adjusted as required by the Authorized Officer. A "cyclone" hand seeder or similar broadcast seeder may be used. Seed will be covered by raking, dragging, or other practical means. Hydro-seeding or other established means of broadcast seeding will be acceptable with approval of the Authorized Officer. BLM field offices will provide seed mixtures and application rates for reseeding (if drill seeded). Application rates are shown as pounds of pure-live-seed per acre. Species substitutions and deviations to application rates must be approved by the Authorized Officer.

Mulching

Mulching will be required on all seeding projects. Acceptable mulches include:

- 1) Straw or native hay (2 tons/AC)
- 2) Wood residues (2 tons/AC)
- 3) Hydro-mulching (1,500 lb./AC)

Straw, hay, and wood residue mulch shall be applied on the surface following reseeding. Rotted or moldy hay or straw will not be used.