

ROCK DESCRIPTIONS

| | BASALT | | CONGLOMERATE |
|------------------------|----------|----------------------------------|--------------|
| 99 | BOULDERS | | LIMESTONE |
| | BRECCIA | | SANDSTONE |
| ×o × × × × × × × | CLINKER | × × × × × × × × × × × × | SILTSTONE |
| | COBBLES | | TUFF |
| | CORAL | | VOID/CAVITY |

ROCK DESCRIPTION SYSTEM

ROCK FRACTURE CHARACTERISTICS

The following terms describe general fracture spacing of a rock:

| Massive: | Greater than 24 inches apart |
|-----------------------|------------------------------|
| Slightly Fractured: | 12 to 24 inches apart |
| Moderately Fractured: | 6 to 12 inches apart |
| Closely Fractured: | 3 to 6 inches apart |
| Severely Fractured: | Less than 3 inches apart |

DEGREE OF WEATHERING

The following terms describe the chemical weathering of a rock:

| Unweathered: | Rock shows no sign of discoloration or loss of strength. |
|-----------------------|---|
| Slightly Weathered: | Slight discoloration inwards from open fractures. |
| Moderately Weathered: | Discoloration throughout and noticeably weakened though not able to break by hand. |
| Highly Weathered: | Most minerals decomposed with some corestones present in residual soil mass. Can be broken by hand. |
| Extremely Weathered: | Saprolite. Mineral residue completely decomposed to soil but fabric and structure preserved. |

HARDNESS

The following terms describe the resistance of a rock to indentation or scratching:

| Very Hard: | Specimen breaks with difficulty after several "pinging" hammer blows. Example: Dense, fine grain volcanic rock | |
|--------------|---|----------------|
| Hard: | Specimen breaks with some difficulty after several hammer blows. Example: Vesicular, vugular, coarse-grained rock | |
| Medium Hard: | Specimen can be broked by one hammer blow. Cannot be scraped by knife. SPT may penetrate by ~25 blows per inch with bounce. Example: Porous rock such as clinker, cinder, and coral reef | , |
| Soft: | Can be indented by one hammer blow. Can be scraped or peeled by knife. SPT can penetrate by ~100 blows per foot. Example: Weathered rock, chalk-like coral reef | |
| Very Soft: | Crumbles under hammer blow. Can be peeled and carved by knife. Can be indented by finger pressure. Example: Saprolite | Plate A-0.3 |