

## Module 1 Lesson 4 – Conducting Environmental/Surface Inspections

### EXERCISE 8 - Calculating Ground, Basal, and Foliar Cover

#### **Instructions:**

- This is an individual exercise.
- Imagine you just finished two vegetation surveys for a well site that was reclaimed 10 years ago, because the operator submitted a FAN. One survey was completed for the reclaimed well site with no access road (see attached Cover Data Form – Inside Reclamation). The other survey was completed in a nearby undisturbed area for comparison (see attached Cover Data Form – Outside Reclamation).
- Review both Cover Data Forms.
- Complete the following tasks for both forms:
  - Convert the dot-count tallies to actual numbers on both forms.
  - Calculate the percent ground-level cover for each category (i.e., bare ground, litter, gravel, stone, undesirable species, and desirable species).
  - Calculate the percent ground cover.
  - Calculate the percent total foliar cover.
  - Calculate the percent foliar cover for DV only.
  - Complete the form to calculate UV composition and DV composition.
- Complete the entire Cover Data Comparison Table using information from both forms.
- At the next webinar, students will be asked a series of questions related to this exercise.

#### **Attachments:**

1. Reclamation Monitoring – Cover Data Form (INSIDE RECLAMATION) (1 page)
2. Reclamation Monitoring – Cover Data Form (OUTSIDE RECLAMATION) (1 page)
3. Cover Date Comparison Table (1 page)





# Cover Data Comparison Table

	Reclaimed Area (%)	Unreclaimed Area (%)	Comparison (%)*
Ground Cover			
DV Basal Cover			
UV Basal Cover			
Total Foliar Cover			
Total Foliar Cover for DV			
DV Composition of Foliar Cover			
UV Composition of Foliar Cover			

\*For comparison:  $(RA/UA) \times 100$