

### Data Interpretation Instructions

On the following two pages, you will see five maps. The first two maps were obtained from ARC GIS online. The three maps on the second page were obtained from WebSoilSurvey. Observe the 5 maps and the information provided in the text boxes to the right of the maps. Use information for each map and comparison of information across the five maps to respond to the questions provided.

### Data Interpretation Questions

1. What is the soil texture most closely associated with soils that have between 10 to 20% calcareous content?
  - a. Sandy loam
  - b. Clay
  - c. Sandy clay loam
  - d. Gravel
2. Soils that are not limited for their use for installing a standard septic system generally have what soil texture?
  - a. Sandy loam
  - b. Clay
  - c. Sandy clay loam
  - d. Gravel
3. Fracking wells shown on the second map as bright white spots are build primarily on soils of what characteristics?
  - a. Sandy loam and 20- 40% calcareous
  - b. Clay loam and 5- 10% calcareous
  - c. Sandy clay loam and 10 – 20% calcareous
  - d. Clay and 1-5% calcareous
4. What feature labeled on the topographic map is located on relatively flat ground?
  - a. Hollow
  - b. Road 1354
  - c. Landing strip
  - d. The DeWitt – Karnes County line
5. By examining the various maps, determine the meaning of the A, B, or C designation at the end of the soil name abbreviation.
  - a. Suitability to be used for a septic system
  - b. Slope of the soil
  - c. Percent clay in the soil
  - d. Depth of the soil

6. The soil that has the highest amount of calcareous material also has what other characteristic?
- Gravelly
  - River bank
  - Ridge top
  - In a gully
7. The Pearson Oil Field is located on soil having the following characteristics
- Not limited for the installation of a septic system and has 5 – 10% calcareous soil
  - On sandy loam soil with a moderate slope
  - On relatively level land
  - On clayey soil with 10-20% calcareous soil
8. Examining the maps, what is the relative order of scale of the maps: from smallest scale (close up) to largest scale (furthest away)
- Topographic map, aerial map, soil map
  - Soil map, aerial map, Calcareous soil map
  - Calcareous soil map, aerial map, septic system map
  - Soil map, topographic map, aerial map
9. Which of the following characteristics are associated with a soil being very limited for use for a septic system?
- Steep slopes
  - Clay content
  - High percentage of calcareous soil
  - Located in a gully
10. The soils that are listed as somewhat limited for use in a standard septic system have what characteristics?
- Sandy loam and less than 1% calcareous soil
  - Clay loam and less than 1% calcareous soil
  - On relatively level land with 10-20% calcareous soil
  - On a dry river bottom with 5 – 10 % calcareous soil