

Competent Person Soils Checklist			
Visual Analysis		Manual Analysis	
1. Check Particle Size a. Fine Grain <input type="checkbox"/> Yes <input type="checkbox"/> No b. Coarse Grain <input type="checkbox"/> Yes <input type="checkbox"/> No		1. Plasticity Test – Will It Form: a. Thread / Ribbon / Ball <input type="checkbox"/> Yes <input type="checkbox"/> No b. Will Not Form <input type="checkbox"/> Yes <input type="checkbox"/> No	
2. Check Spoil Pile a. Cohesive <input type="checkbox"/> Yes <input type="checkbox"/> No b. Loose Pile <input type="checkbox"/> Yes <input type="checkbox"/> No		2. Dry Strength Test a. Large Clump <input type="checkbox"/> Yes <input type="checkbox"/> No b. Crumbles <input type="checkbox"/> Yes <input type="checkbox"/> No	
3. Soil Moisture Content a. Noticeably Moist <input type="checkbox"/> Yes <input type="checkbox"/> No b. Dry / Fissured <input type="checkbox"/> Yes <input type="checkbox"/> No		3. Unconfined Comp. Strength a. Instrument Reading _____ /sf b. Thumb Penetrations Slight <input type="checkbox"/> Yes <input type="checkbox"/> No Shallow <input type="checkbox"/> Yes <input type="checkbox"/> No Deep <input type="checkbox"/> Yes <input type="checkbox"/> No	
Initial Soil Classification: Type A _____ Type B _____ Type C _____			
The following destabilizing factors, if present, would cause you to downgrade your initial classification one class.			
Surface Cracks _____	Fissured Material _____	Previously Disturbed Soil _____	
Undercut Sides _____	Raveling _____	Sloped/Layered Soil _____	
Vibration _____	Surcharge Loads _____	Water Entering Excavation From Any Source _____	
FINAL SOIL CLASSIFICATION TYPE _____ DATE _____ TIME _____			
JOB# _____ LOCATION _____		Final Depth _____	
Signature of Competent Person _____			
Excavation Safety: ➤ Perform Soils Checklist – If a potential for cave-in exists, it is required to slope, bench, or shore excavations less than 5 feet deep. ➤ Spoil Pile Location – All excavated material must be placed a minimum of 2 feet from the edge of an excavation that gas field personnel may enter. Consider the location of the pile prior to excavation. ➤ Excavations 4 ft or Greater – New Job Briefing required. Shall have a ladder or earthen ramp located within 25 feet of the work being performed. The ladder must extend 3 feet beyond the point of contact and the ramp must be walkable in an upright position. ➤ Excavations 5 ft or Greater – New Job Briefing required. Must be sloped, shored or shielded and must have one person on the surface before anyone enters the excavation. Benching is not allowed in type 'C' soils. ➤ Measurement – Depth of excavation is measured from the highest side to the lowest point in the excavation.			

SOIL OR ROCK TYPE	MAXIMUM ALLOWABLE SLOPE (H:V) - EXCAVATIONS < 20 FT DEEP
STABLE ROCK	VERTICAL (90°)
TYPE A	3/4:1 (53°)
TYPE B	1:1 (45°)
TYPE C	1½:1 (34°)

