

JOB SAFETY ANALYSIS

Activity Name: In-Place Density and Moisture Content of Soil and Soil-Aggregate by the Nuclear Method		Activity Number: CP-80	
Activity Description & Purpose: Determine in-place density of soils and soil-aggregates using an nuclear moisture-density gauge.			
Date Prepared: 5/21/09		PPE Required	
Typical Equipment		Typical Crew Size: (Crew sizes may vary due to different conditions throughout the state). 1	Typical Material
Description	Class Code		
See associated test procedure			See associated test procedure
		hard hat, gloves, safety glasses, hard toe boots, safety vest	
Sequence of Job Tasks	Potential Hazards	Safe Job Procedures	Never
1 - Remove device from vehicle	1 - Pinched Fingers	Avoid contact with case and gauge	
	2 - Back injury lifting gauge from vehicle	Use correct lifting procedure	
	3 - Radiation overexposure	1 - Wear dosimeter	
		2 - maintain 3 foot distance from device at all times	
		3 - Reduce radiation by minimizing time around the gauge and maximizing distance from the gauge	
2 - Turn device power on			
3 - Prepare test hole	1 -Pinched fingers	1- Observe finger/hand placement when using hammer and drive pin	
	2 - Back injury from driving and removing pin	1 - Use correct lifting procedure	
4 - Place nuclear gauge in test hole	1 -Pinched fingers	1- Observe finger/hand placement when moving gauge handle	
	2 - Back injury from driving and removing pin	1 - Use correct lifting procedure	
	3 - Radiation overexposure	1 - Wear dosimeter	
		2 - maintain 3 foot distance from device at all times	
5 - Perform test			
6 - Record results			
7 - Return gauge to safe position	1 -Pinched fingers	1- Observe finger/hand placement when using hammer and drive pin	
8 - Return gauge to case	1 - Pinched Fingers	Avoid contact with case and gauge	
	2 - Back injury lifting gauge from vehicle	Use correct lifting procedure	
	3 - Radiation overexposure	1 - Wear dosimeter	

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See associated test procedure		1	See associated test procedure
Sequence of Job Tasks	Potential Hazards	Safe Job Procedures	
		2 - maintain 3 foot distance from device at all times	
Notes and Specifications Instructions		Other Related Resources	