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Soil Oxidant Demand Worksheet

1 Site Information

Project Name _____ Sample ID _____

Project Number _____ Date _____

Test Start Time _____ Test End _____

2 Soil Sample Weight (grams)

Reactor Tube Label		A. Empty Reactor Tube	B. Reactor Tube and Soil	C. Soil Sample
Blank	○	_____	_____	_____
1 g/kg	●	_____	_____	_____
5 g/kg	●	_____	_____	_____
10 g/kg	●	_____	_____	_____
20 g/kg	●	_____	_____	_____

Note: Calculate weight of soil sample by subtracting the "B. Empty Reactor Tube" weight from the "A. Tube and Soil Weight".

3 SOD Analysis

Test Tube Label		SOD Value	A. Color of Supernatant (Clear/Pink)	B. Enter SOD Value if Clear	C. Permanganate Concentration of Supernatant
Blank	○	0	_____	_____	_____
1 g/kg	●	1	_____	_____	_____
5 g/kg	●	5	_____	_____	_____
10 g/kg	●	10	_____	_____	_____
20 g/kg	●	20	_____	_____	_____

Instructions

1. Enter the color of the supernatant for each test tube in Column A. Samples with no color should be described as "clear".
2. If the supernatant color is "clear", enter the corresponding SOD value in Column B.
3. Using the color comparator chart, enter the permanganate concentration of the supernatant in Column C.

SOD Calculation: Add the SOD Value of the highest SOD concentration that is clear (Column B) to the Permanganate Concentration of Supernatant for the lowest SOD concentration (Column C).

SOD Concentration (g/kg) = _____ (Lowest SOD Value) + _____ (Permanganate Concentration) = _____