

Division of Regulatory Services  
**RESEARCH SOIL SAMPLE INFORMATION SHEET**

**RESEARCH/PROJECT IDENTIFICATION**

Name \_\_\_\_\_ Code: 

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Email \_\_\_\_\_

Date Sampled \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Project Title (not more than 30 characters):  
\_\_\_\_\_

**SAMPLE IDENTIFICATION**

Sample ID (4 digits)	Soil Lab Number <b>(lab use only)</b>	Samples/ Form	Check to Save
		<b>1</b>	
		<b>2</b>	
		<b>3</b>	
		<b>4</b>	
		<b>5</b>	
		<b>6</b>	
		<b>7</b>	
		<b>8</b>	
		<b>9</b>	
		<b>10</b>	
		<b>11</b>	
		<b>12</b>	
		<b>13</b>	
		<b>14</b>	
		<b>15</b>	
		<b>16</b>	
		<b>17</b>	
		<b>18</b>	
		<b>19</b>	
		<b>20</b>	

**SOIL**

- 01 \_\_\_\_\_ (Routine Test) PH BU MP MK MC MM ZN
- 05 \_\_\_\_\_ (Meh III heavy metals) CD CR NI PB Z2 C2
- 07 \_\_\_\_\_ (Particle size) TC SD ST CY
- 08 \_\_\_\_\_ (CEC and bases) BS CE BK BC BG BN
- 11 \_\_\_\_\_ (Organic matter & nitrogen) OM TN
- 12 \_\_\_\_\_ (Carbon & nitrogen) X3 TN
- 20 \_\_\_\_\_ (Water holding potential) X4 X5 WH
- 22 \_\_\_\_\_ (Meh III Mn, Cu, Al, Fe) M1 CU MA MF
- 23 \_\_\_\_\_ (Micros, H2O B, Mn Cu Fe) BO M1 CU Y1
- 24 \_\_\_\_\_ (Soil water pH, Sikora I buffer pH) X1 X2
- OM \_\_\_\_ X3 \_\_\_\_ TN \_\_\_\_ BO \_\_\_\_
- CU \_\_\_\_ M1 \_\_\_\_ NA \_\_\_\_ SS \_\_\_\_
- MA \_\_\_\_ MF \_\_\_\_ PA \_\_\_\_ X6 \_\_\_\_
- \_\_\_\_ \_\_\_\_ \_\_\_\_ \_\_\_\_

**WATER**

\_\_\_\_\_ Routine Test (pH, alkalinity, EC, NO<sub>3</sub>-N, P, K, Ca, Mg, Zn, Cu, Fe, Mn)

**GREENHOUSE MEDIA**

\_\_\_\_\_ Routine Test (Water saturation extract pH, EC, NO<sub>3</sub>-N, P, K, Ca, Mg)

**ANIMAL WASTE**

\_\_\_\_\_ Routine Test (%H<sub>2</sub>O, C, N, P, K, Ca, Mg, Zn, Cu, Fe, Mn)

*Keep a copy for your records*

**COMMENTS**

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## Research Soil Sample

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### INSTRUCTIONS

1. Producer samples take precedence over research samples.
2. Research samples must be accompanied by a completed information sheet (form).
3. Only laboratory data will be reported for samples submitted with a research form. If fertilizer and lime recommendations are needed, samples should be submitted with the Agricultural Soil Sample Form.
4. Samples must be submitted in bags provided by the Soil Testing Lab.
5. Submit about a pint of soil. For water holding capacity and greenhouse media tests submit about two pints of soil. If smaller quantities are needed for submission, contact the lab for amount needed for each test.
6. If you want your samples saved, check the appropriate boxes on the form. Please pick up samples as soon as possible after tests are completed.
7. All samples on the form should have the same tests requested. If different tests are required, use more than one form.
8. Enter the User code in the three boxes next to the name.
9. Write sample identification on the sample box or bag. The user code is entered in the lower left hand box and the sample ID is entered in the lower right hand box.
10. Note on units and conversions:

Mehlich values obtained from soil volume with assumptions that soil density=1 g/cm<sup>3</sup> and 1 acre represents 2,000,000 pounds of soil.

Lbs/acre = pp2m

Lbs/acre x 0.5 = mg/kg = ppm

cmol/kg=meq/100g

mmhos/cm x 0.1 = S/m

### CODE EXPLANATION FOR TESTS

#### SOIL GROUP TESTS

- |    |  |
|----|--|
| 01 | Routine Soil Test: 1 M KCl soil pH, Sikora II Buffer pH, Mehlich III P, K, Ca, Mg, Zn (PH, BU, MP, MK, MC, MM, ZN)   |
| 05 | Mehlich III Cd, Cr, Ni, Pb, Zn, Cu, Mo (mg/kg soil)  |
| 07 | Texture Class (TC, SD, ST, CY) via micropipette method.  |
| 08 | Cation Exchange Capacity and exchangeable bases (BS, CE, BK, BC, BG, BN)   |
| 11 | Organic matter & nitrogen (OM, TN, OM=%Cx1.72)   |
| 12 | Carbon & nitrogen (X4, TN)   |
| 20 | Water holding potential: % water at field capacity, % water at wilting point, % plant available water held between field capacity and wilting point (X4, X5, WH) |
| 22 | Mehlich III Mn, Cu, Al, Fe (M1 CU MA MF)   |
| 23 | Mehlich III micronutrients: hot water B, Meh III Mn, Cu, Fe (BO M1 CU Y1)  |
| 24 | Soil water pH and Sikora I buffer pH (X1 X2)   |

#### SOIL INDIVIDUAL TESTS

- |    |  |
|----|--|
| OM | Organic Matter (%) (= % C x 1.72)                |
| X3 | %C   |
| TN | Total N (%N)                                     |
| BO | Hot water boron (lb/acre)                        |
| CU | Mehlich III copper (lb/acre)                     |
| M1 | Mehlich III manganese (lb/acre)                  |
| NA | Mehlich III sodium (lb/acre)                     |
| C2 | Mehlich III copper (mg/kg soil)                  |
| Z2 | Mehlich III zing (mg/kg soil)                    |
| SS | Conductivity of 1:2 mix of soil:water (mmhos/cm) |
| X6 | Calcium carbonate equivalence (% by wt)          |
| MA | Mehlich III Al (mg/kg soil)                      |
| MF | Mehlich III Fe (mg/kg soil)                      |
| Y1 | Mehlich III Fe (lbs/acre)                        |
| PA | Potential acidity (tons ag lime/acre)            |