

## Soil Test Submission Form

|                                       |  |  |   |
|---------------------------------------|--|--|---|
| <b>Sample ID</b>                      | S0616-22C <span style="float: right;"><i>(for lab to fill out)</i></span>  |  |   |
| <b>Name</b>                           |  | <b>Phone</b>   | <b>* Email <i>(to receive results)</i></b>  |
| Amy John                              |  | 347-407-1211   | johna200@newschool.edu  |
| <b>Test Requested<br/>(check box)</b> | <input checked="" type="checkbox"/> pH (\$5)<br><input type="checkbox"/> Soil class (jar test) (\$10)<br><input type="checkbox"/> Soluble salts (\$5)<br><input type="checkbox"/> Organic content (\$8)<br><input type="checkbox"/> NPK kits (\$10)<br><input type="checkbox"/> Lead screening with XRF (\$10) |  | <b>Test Packages</b><br><input type="checkbox"/> Basic soil quality test (\$45)<br><input checked="" type="checkbox"/> Heavy metal & pH test (\$45)<br><input type="checkbox"/> Micro-nutrients & pH (\$20) |
| <b>Total cost:</b>                    | <b>\$</b> 45   | <b>Payment type:</b> paypal  |   |
| <b>Mailing Address</b>                |  | <b>Garden Address</b><br><small>(if different from mailing address)</small>                  | <b>Sample Description</b> (optional)  |
| 415 South Fifth Street<br>1R          |  | <input type="checkbox"/> Home Garden<br><input checked="" type="checkbox"/> Community Garden | Roosevelt Community Garden<br>#6  |

### ***Test Packages:***

**Basic soil quality test (\$45):** Soil samples are screened for (1) pH, (2) salt content, (3) soil class using jar test, (4) NPK levels using field kits, and (5) lead, chromium and zinc using XRF analyzer. Results will be available within one week.

**Heavy Metal & pH test (\$45):** Soil samples are analyzed for (1) Chromium, Cobalt, Nickel, Copper, Zinc, Arsenic, Cadmium, Mercury and lead (2) pH. Results will be available after 2-4 weeks.

### Environmental Sciences Analytical Center

Brooklyn College • 2900 Bedford Avenue • Brooklyn • NY • 11210

[www.usi.nyc/soil-testing.html](http://www.usi.nyc/soil-testing.html)

## Soil Testing Report

|  |  |        |  |                |            |  |
|--|--|--------|--|----------------|------------|--|
| <b>Sample ID</b>   | S0616-22C  |        |  |                |            |  |
| <i>Please do not write in spaces below; to be filled in by the lab</i> |  |        |  |                |            |  |
| Date received: 12:00:00 AM   |  |        | Date of Report:  |                |            |  |
| Soil Test Report   | <b>BASIC SOIL QUALITY</b>  |        |  |                |            |  |
|  | XRF Screening (ppm)  |        | Soluble salts (ppm)  |                |            |  |
|  | Lead (Pb)  | 32     | Soil pH  | 6.8            | Nitrogen   |  |
|  | Zinc (Zn)  | 109    | Soil class (jar test)  |                | Phosphorus |  |
|  | Copper (Cu)  | ND     | Note:  |                | Potassium  |  |
|  | Arsenic (As)   | 11     |  |                | Note:      |  |
|  |  |        |  |                |            |  |
|  | <b>Heavy Metals (ppm)</b><br><small>*expressed by kg of dry soil</small> |        | <b>Micro Nutrients &amp; K (ppm)</b><br><small>expressed by kg of dry soil</small> |                |            |  |
|  | (Cr) Chromium  | 17.0   | B (Boron)  |                |            |  |
|  | (Ni) Nickel  | 24.0   | Mg (Magnesium)   |                |            |  |
|  | (Cu) Copper  | 28.0   | Al (Aluminum)  |                |            |  |
|  | (Zn) Zinc  | 1591.0 | K (potassium)  |                |            |  |
|  | (As) Arsenic   | 9.6    | Ca (Calcium)   |                |            |  |
|  | (Cd) Cadmium   | 0.8    | Mn (Manganese)   |                |            |  |
|  | (Hg) Mercury   | 0.0    | Fe (Iron)  |                |            |  |
|  | (Pb) Lead  | 31.0   | Cu -63 (Copper)  |                |            |  |
|  |  |        | Zn-66 (Zinc)   |                |            |  |
|  |  |        | <b>Particle Analysis (hydrometer method)</b>                                       |                |            |  |
|  |  |        | Gravel (%)   |                |            |  |
|  |  |        | Sand (%)   |                |            |  |
|  | Organic Content (%)  |        |  | Silt (%)       |            |  |
|  | Comments:  |        |  | Clay (%)       |            |  |
|  |  |        |  | Texture Class: |            |  |
|  |  |        | NOTES:   |                |            |  |
|  |  |        |  |                |            |  |

Please check for general interpretations of data at our website [www.usi.nyc/soil-testing.html](http://www.usi.nyc/soil-testing.html)  
 Send a message to [soil@brooklyn.cuny.edu](mailto:soil@brooklyn.cuny.edu) if you have further questions.

**Environmental Sciences Analytical Center**

## **Resources for Interpreting Your Results**

Click on the links to access information that will help you understand your results.

- [Heavy Metals](#) Interpretation Guidelines (If this link doesn't work for you, you can also find it on our website <http://www.usi.nyc/soil-testing.html> under "Resources" at the bottom of the page)
- Quick Facts on [Soil Parameters](#)
- EPA Eco-tools Urban Gardening: <https://clu-in.org/ecotools/urbangardens.cfm>

### *On Nutrients*

Understanding NPK levels in ppm: lb/acre divided by 2 gives you concentrations in ppm

|                           |                  |
|---------------------------|------------------|
| <i>Nitrogen Levels</i>    |                  |
| Low                       | 40 lb A/6" soil  |
| Medium                    | 160 lb A/6" soil |
| High                      | 320 lb A/6" soil |
| <i>Phosphorous Levels</i> |                  |
| Low                       | 8 lb A/6" soil   |
| Medium                    | 20 lb A/6" soil  |
| High                      | 64 lb A/6" soil  |
| <i>Potassium Levels</i>   |                  |
| Low                       | 40 lb A/6" soil  |
| Medium                    | 80 lb A/6" soil  |
| High                      | 160 lb A/6" soil |

- Soil Test Interpretation Guide-Oregon State  
[http://extension.oregonstate.edu/sorec/sites/default/files/soil\\_test\\_interpretation\\_ec1478.pdf](http://extension.oregonstate.edu/sorec/sites/default/files/soil_test_interpretation_ec1478.pdf)
- Understanding soil nutrients and pH-Veggie gardener  
<http://www.veggiegardener.com/understanding-soil-nutrients-soil-ph/>
- Fertilizing Garden Soils  
<http://www.gardening.cornell.edu/factsheets/soil/fertilizing.pdf>
- Managing soil pH and Crop nutrients- Illinois  
<http://extension.cropsciences.illinois.edu/handbook/pdfs/chapter08.pdf>