



**Soil Borings Required By 2014 NYC Building Code  
Chapter 18 Soils and Foundations - 1802.4.1 Scope of Investigation**

A geotechnical investigation is required for new structures, horizontal enlargements and vertical enlargements that increase the existing footing loading by more than 5%.

<b>Borings Required for Shallow Foundations</b>		
<i>Built Over Area (Building Foot Print)</i>	<i>Minimum No. of Borings</i>	<i>* Deep Borings Required</i>
750 sf.	1	1
5,000 sf.	2	1
7,500 sf.	3	1
10,000 sf.	4	1
12,500 sf.	5	2
15,000 sf.	6	2
17,500 sf.	7	2
20,000 sf.	8	2
25,000 sf.	9	3
30,000 sf.	10	3
	Plus 1 per 5,000 sf.	Plus 1 per 10,000 sf.

<b>Borings Required for Deep Foundations</b>		
<i>Built Over Area (Building Foot Print)</i>	<i>Minimum No. of Borings</i>	<i>* Deep Borings Required</i>
2,000 sf.	2	1
4,000 sf.	2	1
6,000 sf.	3	1
8,000 sf.	4	1
10,000 sf.	5	1
12,000 sf.	6	2
14,000 sf.	7	2
16,000 sf.	8	2
18,000 sf.	9	2
20,000 sf.	10	2
	Plus 1 per 4,000 sf.	Plus 1 per 10,000 sf.

**Notes:**

1. Test Pits - May be substituted for borings for 1 & 2 story structures.  
- To establish top of rock.  
- To establish depth and condition of adjacent structures.
2. Bedrock Support - For rock support of footings, piles or caissons; cores 10 ft. rock cores are required, starting below the lower point of bearing.
3. Retaining Walls - For retaining walls greater than 10 feet high, one boring for every linear foot is required.
- 4\*. Deep Borings - Required for buildings with an average load over 1,000 psf (Typically above 5 stories).  
The deep boring is required to go to a depth of 100 feet or 5 feet into rock of class 1c or better.  
The deep borings are included I the minimum number of borings.



**Soil Borings Required By 2014 NYC Building Code**  
**Chapter 18 Soils and Foundations - 1802.4.1 Scope of Investigation (continued)**

5. Location of Borings      Half of the borings must be in the built up (building foot print) area.  
The remaining half must be within 25 feet of the built up area.
  
6. Geotechnical Reports      Required for loads greater than allowed by section 1804 "Allowable Load Bearing Values of Soil and Rock".  
Required for structures in Seismic Design Category C or D.  
Required when test pits are submitted in lieu of borings.  
Required when the building is to be placed over compressible soils, uncontrolled fill or artificially treated soils.  
As required by the commissioner.

**Soil Borings Required By 2014 NYC Plumbing Code**  
**Chapter 11 Storm Drainage - 1114.2 Field Investigation**

1. Dry Wells      -      A soil boring is required at the location of each drywell.  
The suitability of the subsurface soils must be verified in place by either a percolation test or permeability test.  
The infiltration rate must be greater than ½ inch per hour for the installation of a drywell.  
A sand column may be used to connect the drywell to pervious materials.

**Soil Borings Required By Title 15 of the Rules of NYC**  
**Chapter 23 Rules Governing the Design and Construction of Private Sewers or Private Drains (1999)**  
**Appendix A-8 Requirements for the Preparation of the Boring Logs and Boring Reports**

1. Private Sewers      -      Queens, Brooklyn or Staten Island: borings shall be taken at 150 foot intervals within the street limits  
Bronx and Manhattan: borings shall be taken at 150 foot intervals within the street limits  
Average depth of borings shall be 15 feet minimum below proposed sewer