



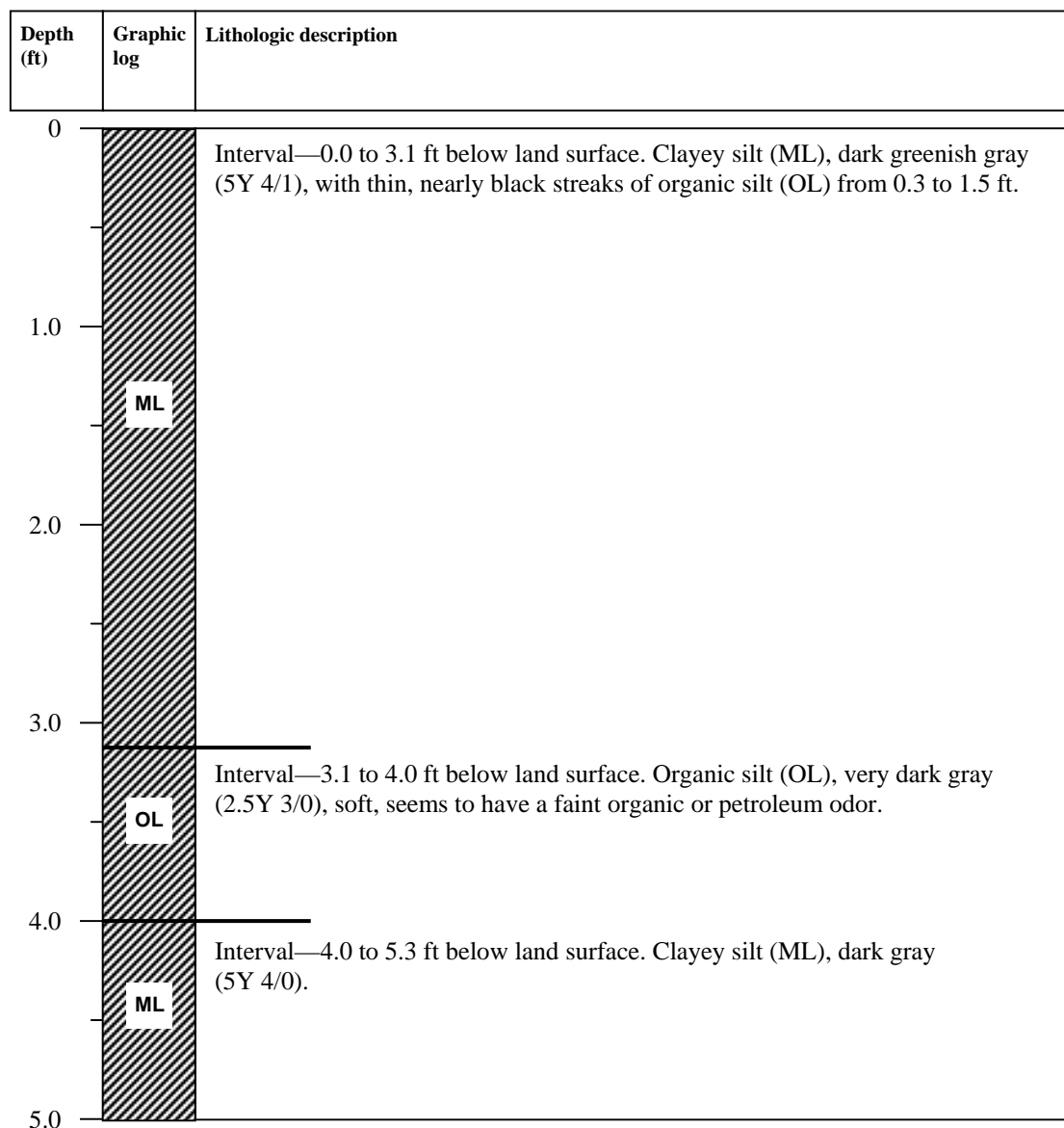
Appendix O

USGS Lithologic Core and Regional Profile

USGS CORING LOG

| | |
|--|-------------------------------------|
| Project Anacostia Ground Water | Date drilled 7/2/2002 |
| Site name DCHP01 | Date described 7/15/2002 |
| Latitude / Longitude 38° 54' 05.8" / 076° 57' 34.2" | Described by Phelan / Tenbus |
| Land-surface elevation 2.75 feet (ft) above sea level | Interval 0.0 to 5.0 ft |
| Total depth 30.5 ft below land surface | Drilling method Vibracore |

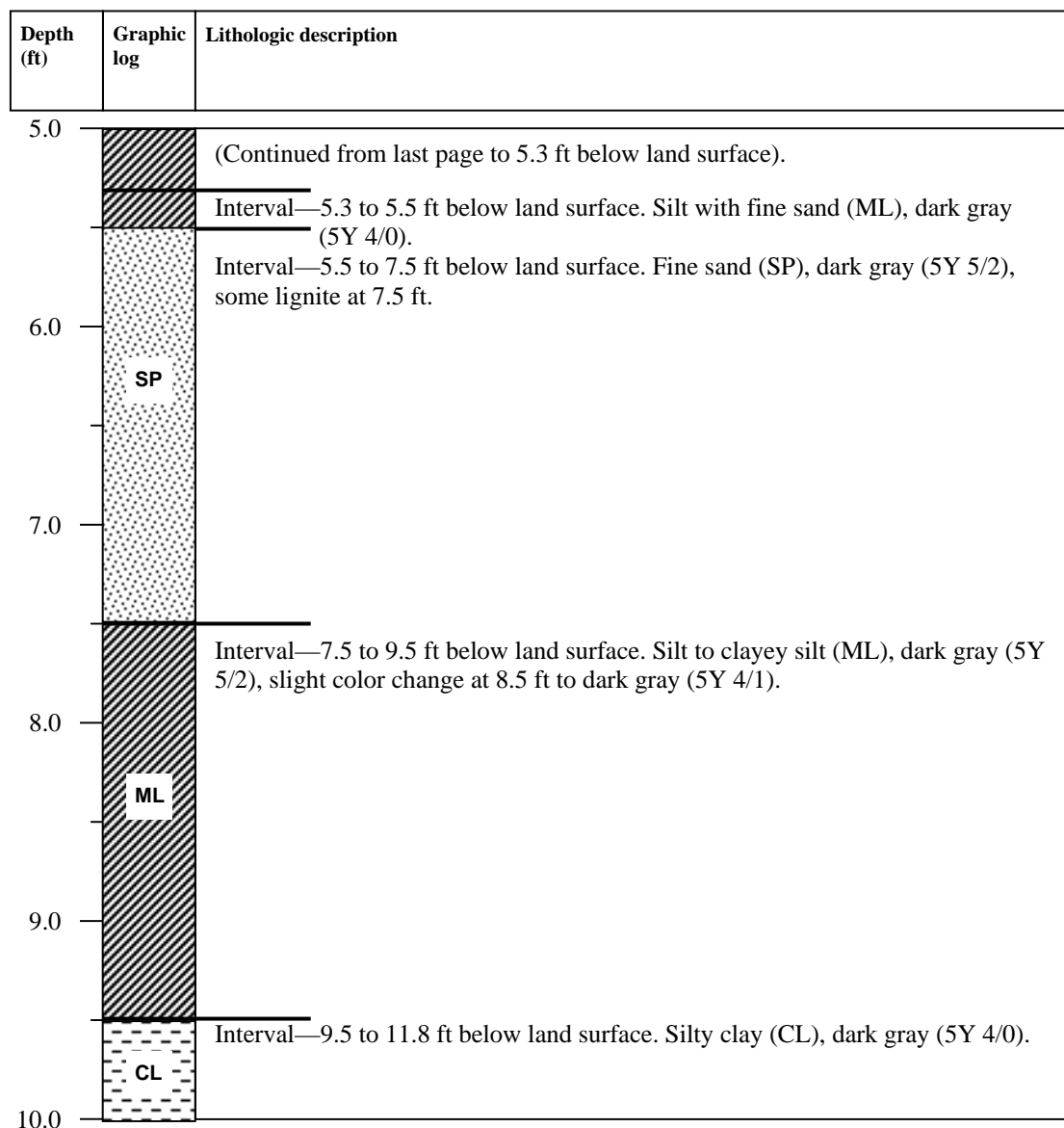
Remarks: Site was on a mud flat on the eastern bank of the Anacostia River in Washington, D.C., north of the Benning bridge. Land-surface elevation was estimated from tide table and visual observations at the time of drilling. Vibracore method can cause compaction or stretching of cores; accuracy of depths in the descriptions is estimated to be ± 0.3 ft. Core from 0 to 11.8 ft is archived in core box 1.



USGS CORING LOG

| | |
|--|-------------------------------------|
| Project Anacostia Ground Water | Date drilled 7/2/2002 |
| Site name DCHP01 | Date described 7/15/2002 |
| Latitude / Longitude 38° 54' 05.8" / 076° 57' 34.2" | Described by Phelan / Tenbus |
| Land-surface elevation 2.75 ft above sea level | Interval 5.0 to 10.0 ft |
| Total depth 30.5 ft below land surface | Drilling method Vibracore |

Remarks: Site was on a mud flat on the eastern bank of the Anacostia River in Washington, D.C., north of the Benning bridge. Land-surface elevation was estimated from tide table and visual observations at the time of drilling. Vibracore method can cause compaction or stretching of cores; accuracy of depths in the descriptions is estimated to be ± 0.3 ft. Core from 0 to 11.8 ft is archived in core box 1.



USGS CORING LOG

| | |
|--|-------------------------------------|
| Project Anacostia Ground Water | Date drilled 7/2/2002 |
| Site name DCHP01 | Date described 7/15/2002 |
| Latitude / Longitude 38° 54' 05.8" / 076° 57' 34.2" | Described by Phelan / Tenbus |
| Land-surface elevation 2.75 ft above sea level | Interval 10.0 to 15.0 ft |
| Total depth 30.5 ft below land surface | Drilling method Vibracore |

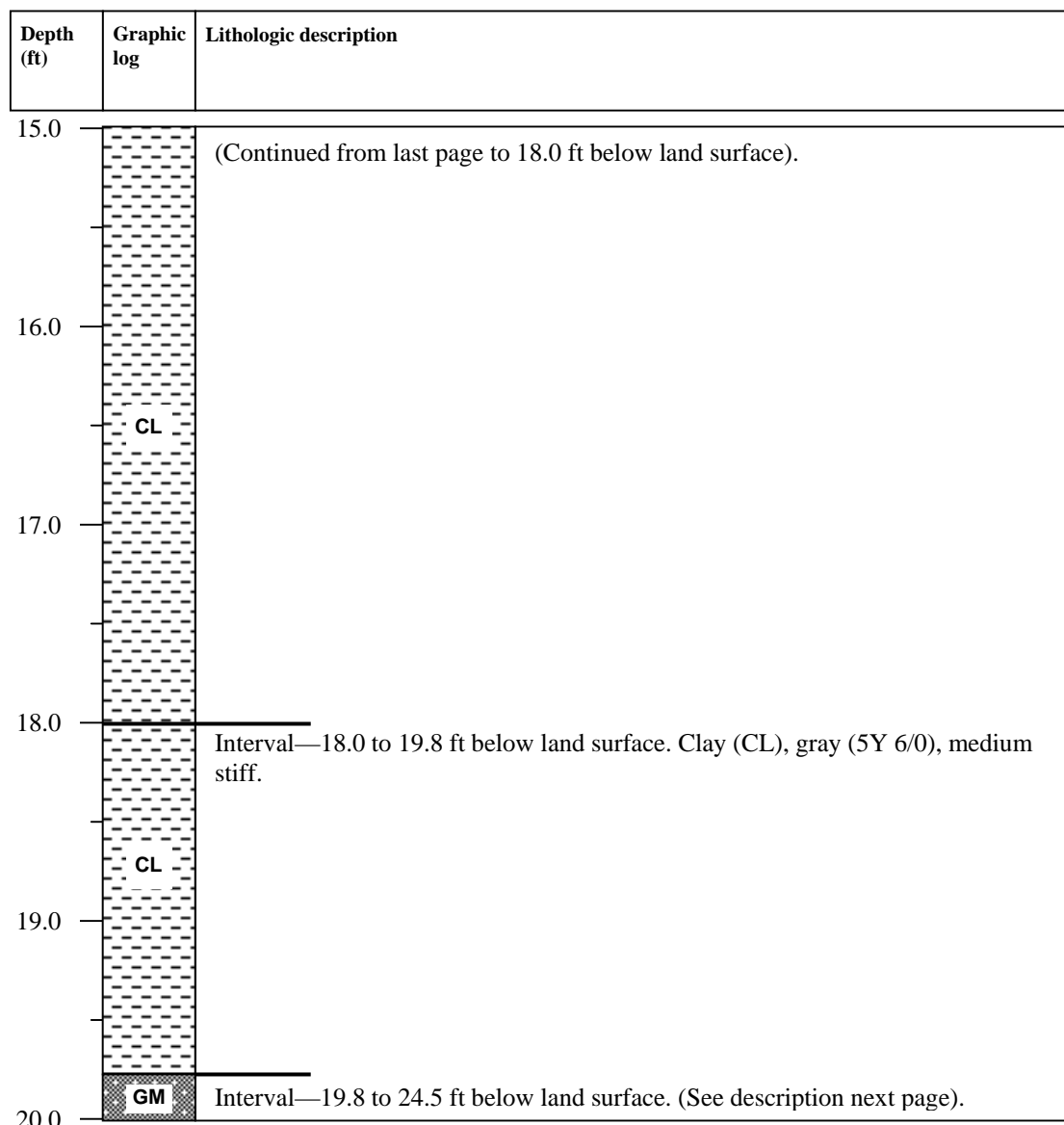
Remarks: Site was on a mud flat on the eastern bank of the Anacostia River in Washington, D.C., north of the Benning bridge. Land-surface elevation was estimated from tide table and visual observations at the time of drilling. Vibracore method can cause compaction or stretching of cores; accuracy of depths in the descriptions is estimated to be ± 0.3 ft. Core from 0 to 11.8 ft is archived in core box 1; core from 11.8 to 18.0 ft is in core box 2.

| Depth (ft) | Graphic log | Lithologic description |
|------------|-------------|---|
| 10.0 | | (Continued from last page to 11.8 ft below land surface). |
| 11.0 | | |
| 12.0 | | Interval—11.8 to 12.0 ft below land surface. Sandy clay (SC), same as above with medium sand. |
| 13.0 | | Interval—12.0 to 13.5 ft below land surface. Silty clay (CL), gray (5Y 6/0), stiff, with a gradual transition to very stiff from 13.0 to 13.5 ft. |
| 14.0 | | Interval—13.5 to 18.0 ft below land surface. Silty clay (CL), marbled olive and brown, dry, very stiff, becomes hard clay from 17.9 to 18.0 ft. |
| 15.0 | | |

USGS CORING LOG

| | |
|--|-------------------------------------|
| Project Anacostia Ground Water | Date drilled 7/2/2002 |
| Site name DCHP01 | Date described 7/15/2002 |
| Latitude / Longitude 38° 54' 05.8" / 076° 57' 34.2" | Described by Phelan / Tenbus |
| Land-surface elevation 2.75 ft above sea level | Interval 15.0 to 20.0 ft |
| Total depth 30.5 ft below land surface | Drilling method Vibracore |

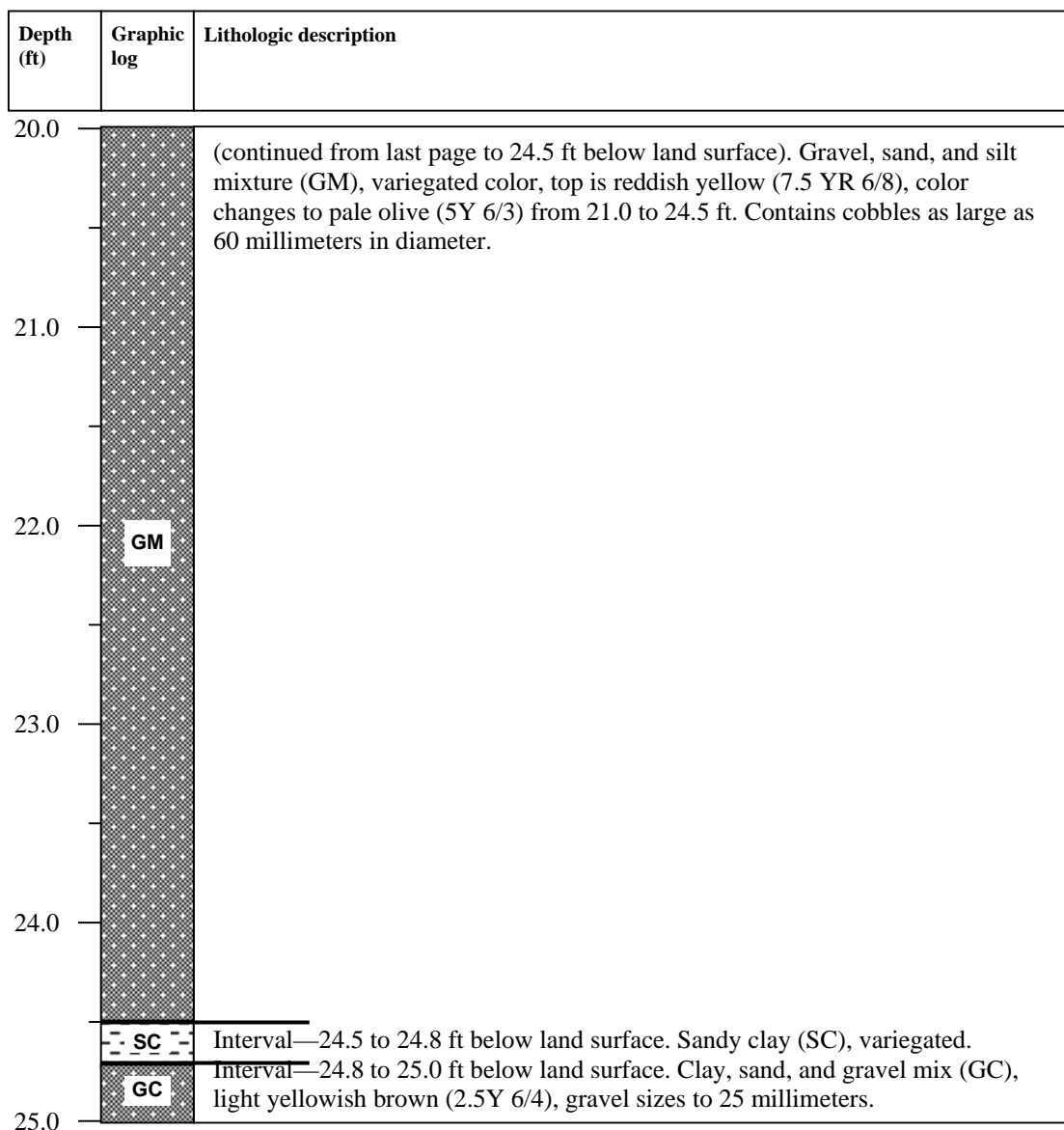
Remarks: Site was on a mud flat on the eastern bank of the Anacostia River in Washington, D.C., north of the Benning bridge. Land-surface elevation was estimated from tide table and visual observations at the time of drilling. Vibracore method can cause compaction or stretching of cores; accuracy of depths in the descriptions is estimated to be ± 0.3 ft. Core from 11.8 to 18.0 ft is archived in core box 2; core from 18.0 to 27.5 ft is archived in core box 3.



USGS CORING LOG

| | |
|--|-------------------------------------|
| Project Anacostia Ground Water | Date drilled 7/2/2002 |
| Site name DCHP01 | Date described 7/15/2002 |
| Latitude / Longitude 38° 54' 05.8" / 076° 57' 34.2" | Described by Phelan / Tenbus |
| Land-surface elevation 2.75 ft above sea level | Interval 20.0 to 25.0 ft |
| Total depth 30.5 ft below land surface | Drilling method Vibracore |

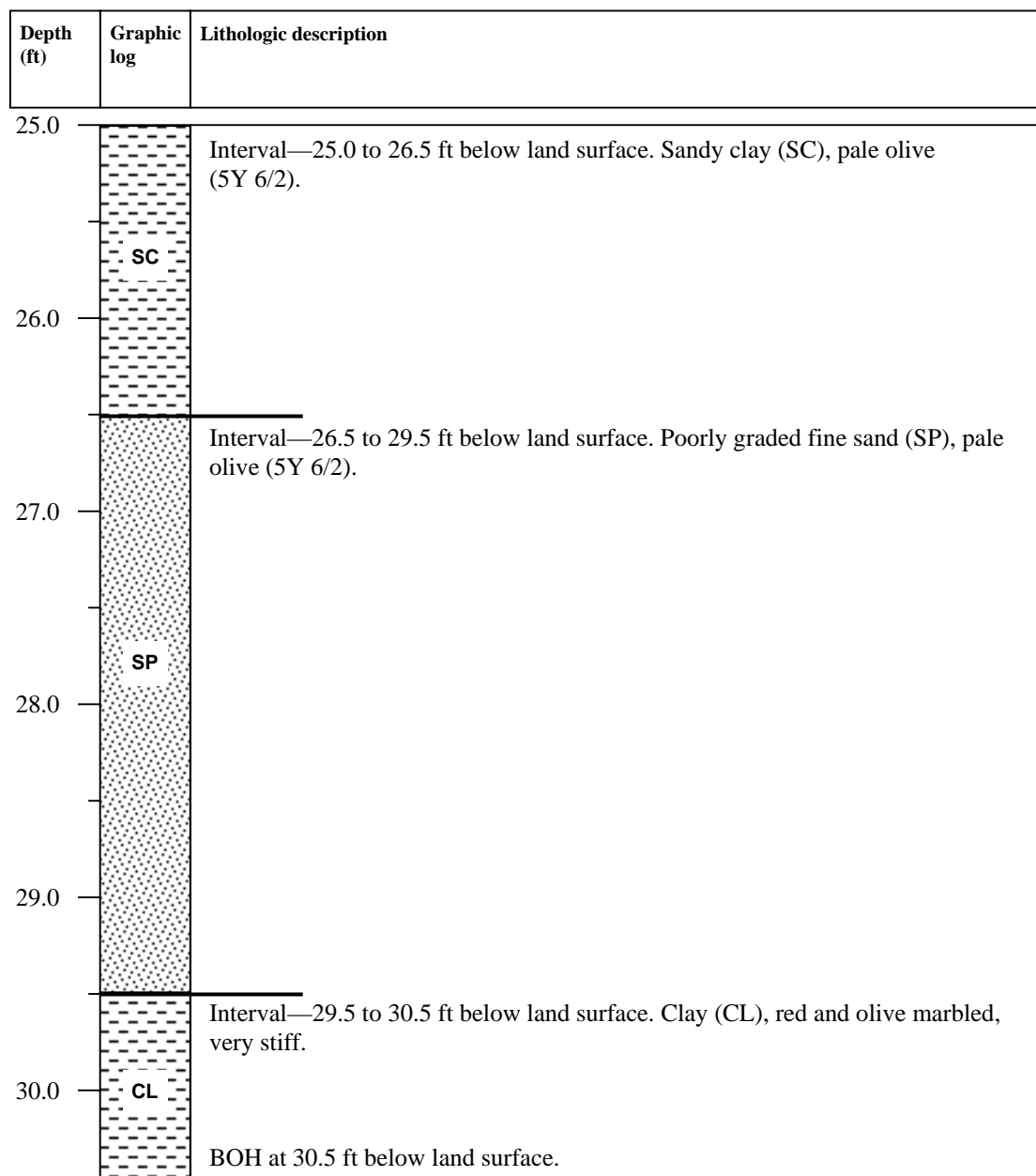
Remarks: Site was on a mud flat on the eastern bank of the Anacostia River in Washington, D.C., north of the Benning bridge. Land-surface elevation was estimated from tide table and visual observations at the time of drilling. Vibracore method can cause compaction or stretching of cores; accuracy of depths in the descriptions is estimated to be ± 0.3 ft. Core from 18.0 to 27.5 ft is archived in core box 3.



USGS CORING LOG

| | |
|--|-------------------------------------|
| Project Anacostia Ground Water | Date drilled 7/2/2002 |
| Site name DCHP01 | Date described 7/15/2002 |
| Latitude / Longitude 38° 54' 05.8" / 076° 57' 34.2" | Described by Phelan / Tenbus |
| Land-surface elevation 2.75 ft above sea level | Interval 25.0 to 30.5 ft |
| Total depth 30.5 ft below land surface | Drilling method Vibracore |

Remarks: Site was on a mud flat on the eastern bank of the Anacostia River in Washington, D.C., north of the Benning bridge. Land-surface elevation was estimated from tide table and visual observations at the time of drilling. Vibracore method can cause compaction or stretching of cores; accuracy of depths in the descriptions is estimated to be ± 0.3 ft. Core from 18.0 to 27.5 ft is archived in core box 3; core from 27.5 to 30.5 ft is in core box 4.



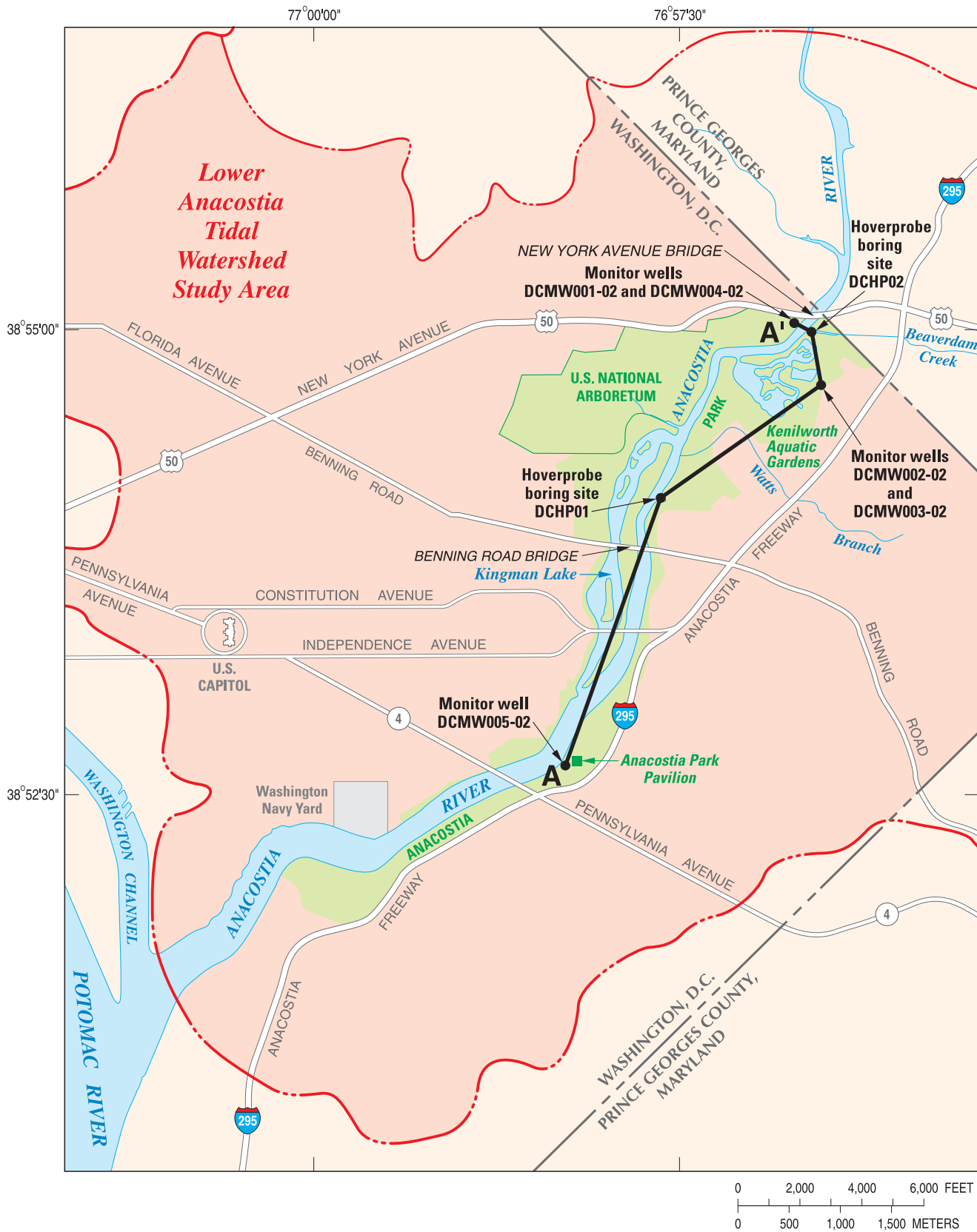
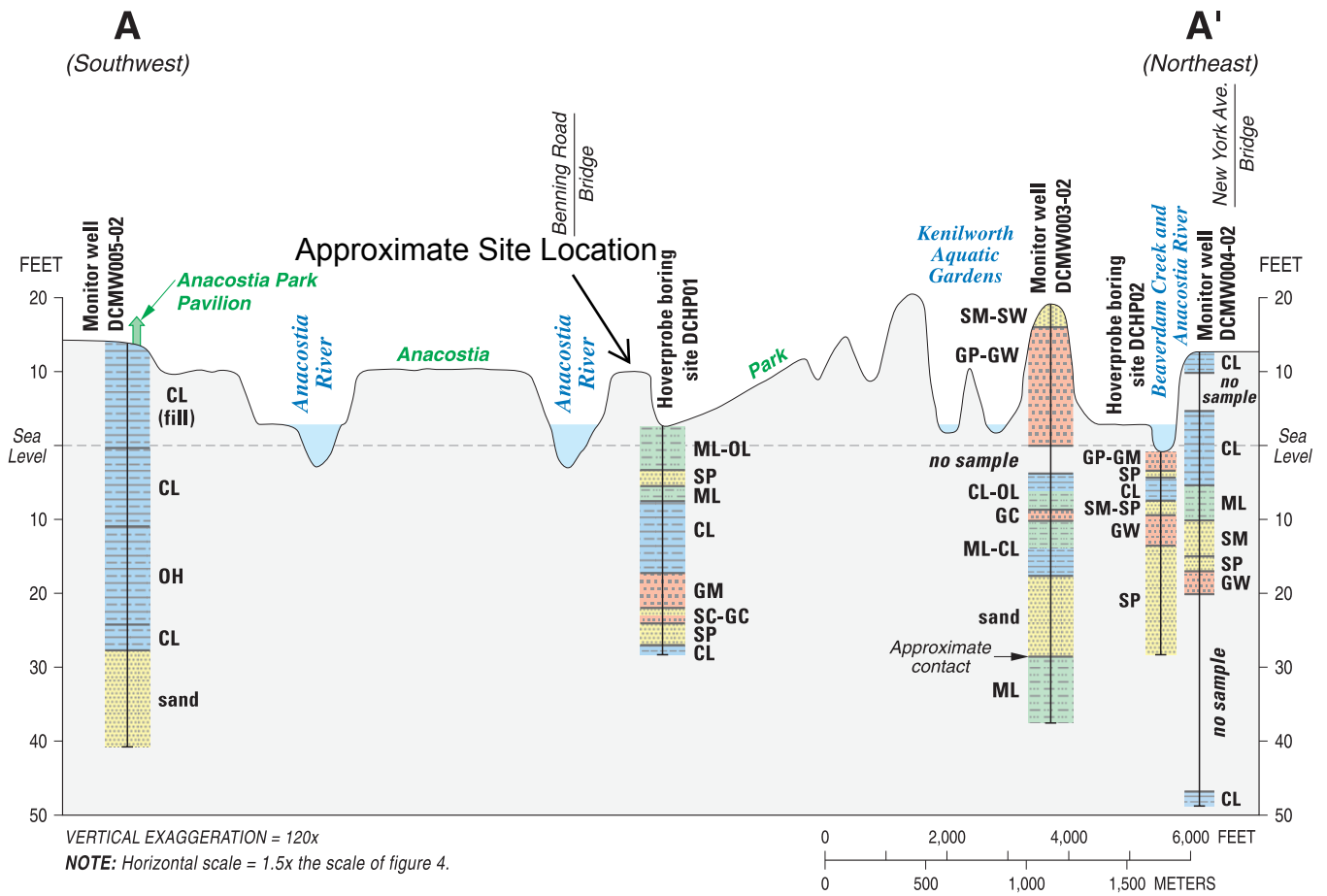


Figure 4. Location of monitor wells, hoverprobe boring sites, and trace of lithologic section A-A' along the Anacostia River, Washington, D.C., July 2002.



EXPLANATION

DCHP01
 |
 MONITOR WELL OR HOVERPROBE BORING
 SITE AND IDENTIFICATION NUMBER

— STRATIGRAPHIC CONTACT

| UNIFIED SOIL CLASSIFICATION SYSTEM | | |
|------------------------------------|--------|---|
| SYMBOL AND MAJOR DIVISION | LETTER | DESCRIPTION |
| GRAVEL | GP | Poorly graded gravel |
| | GW | Well graded gravel |
| | GM | Silty gravel |
| | GC | Clayey gravel |
| SAND | SP | Poorly graded sand |
| | SW | Well graded sand |
| | SM | Silty sand |
| | SC | Clayey sand |
| SILT | ML | Inorganic silt, very fine sand, and clayey silt |
| | OL | Organic silt and organic clayey silt |
| CLAY | CL | Inorganic clay, silty clay, and sandy clay |
| | OH | Organic clay |

Figure 7. Lithologic section A-A' along the Anacostia River, Washington, D.C.