OWNER: Southern Materials Co., Inc. (Thalin Plant)

DRILLER: Sydnor Hydrodynamics, Inc.

TOTAL DEPTH:

59

COUNTY: Princess Anne (Virginia Beach)

WWCR: 1201

VDMR: 2195

GEOLOGIC LOG

Depth	in
feet	

COLUMBIA GROUP (0-7')

Clay - tan and light-gray, sandy; sand is fine, fairly 0 - 7well-sorted, angular, quartzose

YORKTOWN FORMATION (7-120')

- Sand and Shell moderately-abundant matrix of gray and 7-15 orange-brown clay; 25% pelecypod shell fragments; 75% fine- to coarse-grained, poorly-sorted, variably-rounded sand; clear quartz, with traces of muscovite, glauconite, epidote, hornblende and garnet; a very few foraminifers
- 15 25
- Sand and Shell medium-gray, slightly- to moderately-25 - 35clavev, 25% shell material (pelecypod>gastropod> bryozoan); 75% fine- to medium-grained, subangular, moderately-sorted sand; clear quartz, with traces of glauconite, biotite, muscovite, and hornblende; a few foraminifers and ostracods
- 85% sand, 15% shell 35-45
- Sand gray, very-slightly clayey, a very few shell 45-55 fragments; fine- to very coarse-grained, poorly sorted, variably rounded; fine sands are mostly clear quartz, coarse sands are moderately feldspathic, slightly lithic; accessory muscovite, magnetite, green epidote, and hornblende
- Sand trace of clay; very coarse-grained, fairly well-55-65 sorted, subangular to subrounded; feldspathic; slightly- to moderately-lithic
- Sand gray, clean, a few shell fragments; medium- to 65-75 coarse-grained, rounded-to very well-rounded clear quartz with appreciable feldspar and minor garnet, tourmaline, epidote, kyanite, hornblende, rutile, and rock fragments

OWNER: Southern Materials Co., Inc.

#2195

75-85	Sand and Silt — slightly clayey, 5-10% pelecypod shell fragments; fine- to coarse-grained, rather poorly-sorted, angular to well-rounded; predominantly clear quartz; fine fraction contains abundant mica and heavy minerals
85-95	Sand — gray, slightly clayey, 5% pelecypod (-echinoid-gastropod) shell material; fine- to medium-grained, fairly well-sorted, angular to subrounded; clear and greenish quartz with abundant sand-size bioclasts; slightly glauconitic; foraminifers and ostracods moderately abundant
95-105	Gravel — gray, slightly clayey, 10% abraded pelecypod shell fragments; well-sorted, subrounded 2-mm gravel comprised of quartz, feldspar, and rock fragments
105-115	Sand — gray, slightly-to moderately-clayey, 10% coarse shell material; fine- to medium-grained, fairly well-sorted; predominantly clear, angular to subangular quartz, subordinately sand-size shell fragments, foraminifers, and ostracods; very-slightly glauconitic
115-120	Sand — gray, clayey; fine- to medium-grained, fairly well-sorted; 50% quartz, 50% combined sand-size shell fragments, foraminifers, echinoid spines, and ostracods; very-slightly glauconitic

GEOLOGIC SUMMARY

	ROCK UNIT	AGE
0-71	Columbia Group	Pleistocene
7-120'	Yorktown Formation	Late Miocene

Virginia Division of Mineral Resources Robert H. Teifke, Geologist July 26, 1968