

US EPA ARCHIVE DOCUMENT

McCALLUM

TESTING LABORATORIES, INC.

Geotechnical Engineering, Materials Testing & Environmental Services

To: Rick Matthews

497 1914

SUBSURFACE EXPLORATION

PROPOSED ETHERIDGE GREENS GOLF COURSE

CHESAPEAKE, VIRGINIA

MTL PROJECT #01-2004

24 PAGES

1808 HAYWARD AVENUE, CHESAPEAKE, VA 23320 ♦ P.O. BOX 13337, CHESAPEAKE, VA 23325-0337
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TESTING LABORATORIES, INC.

Geotechnical Engineering, Materials Testing & Environmental Services

February 9, 2001

Hassell and Folkes, P.C.
P.O. Box 2146
Chesapeake, VA 23320

Attention: **Jack Claud**

Subject: **Field Test Results**
Proposed Etheridge Greens Golf Course
Chesapeake, Virginia
MTL Project 012004

Dear Mr. Claud:

On February 1, 2001, our technicians, Alex Kinloch and Kelvin Mervicker, were at the above referenced project to drill hand auger borings in the planned Soil Drainage Management System drainfield. Three borings were drilled to depths of 4.5 to 5.5 ft. beneath the existing ground surface. At the completion of each boring, groundwater level measurements were made within the completed borehole. Samples of each soil stratum encountered were obtained and transported to our laboratory where they were visually classified by laboratory personnel. Detailed results of our borings are presented in this report along with a Hand Auger Boring Location Plan.

Should you have any questions concerning this report, please do not hesitate to contact this office at your earliest convenience.

Very truly yours,

McCALLUM TESTING LABORATORIES, INC.



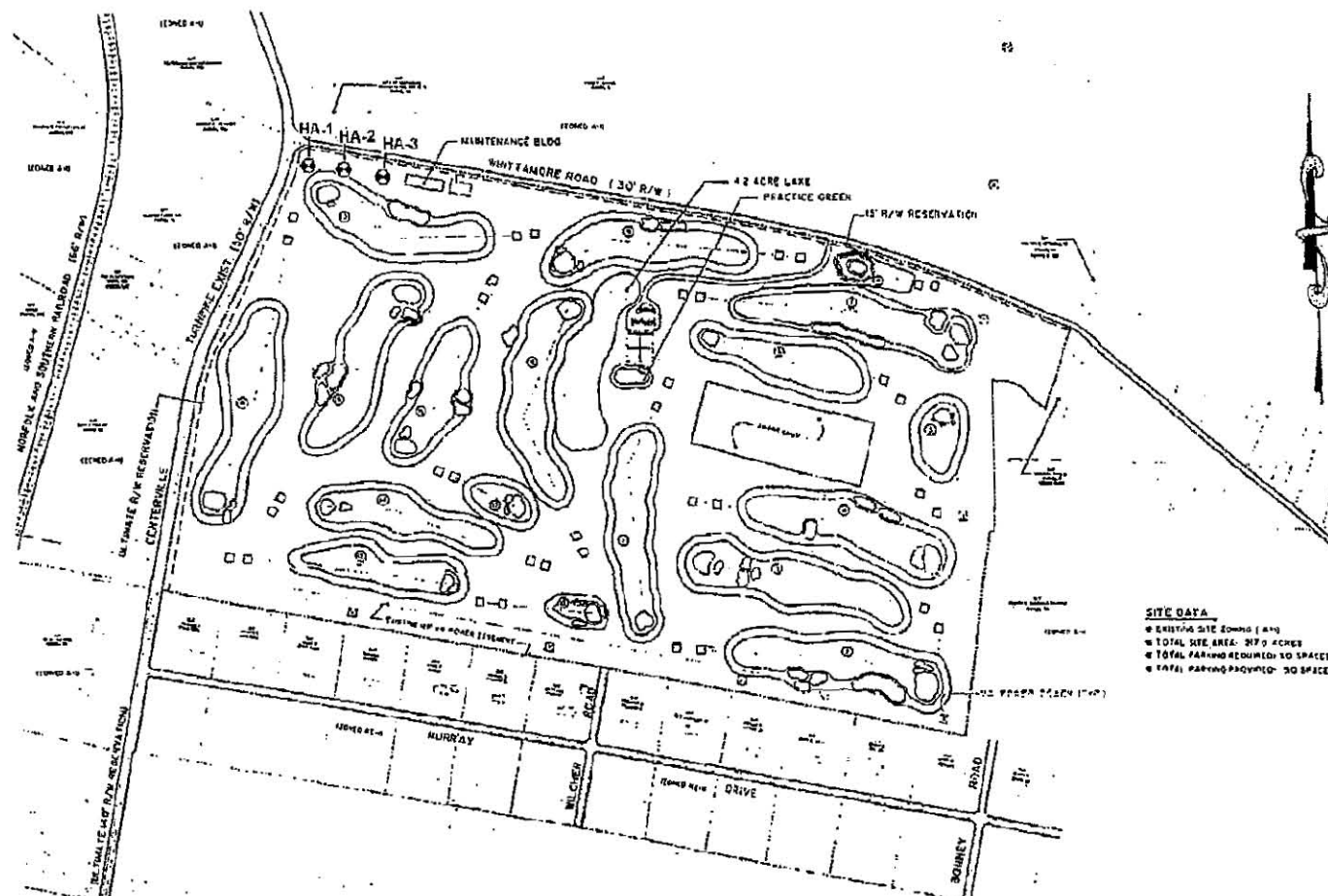
David P. Rediger, E.I.T.
Laboratory Manager



Douglas S. Kinloch, P.E.
Chief Engineer



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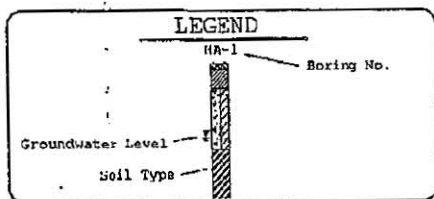
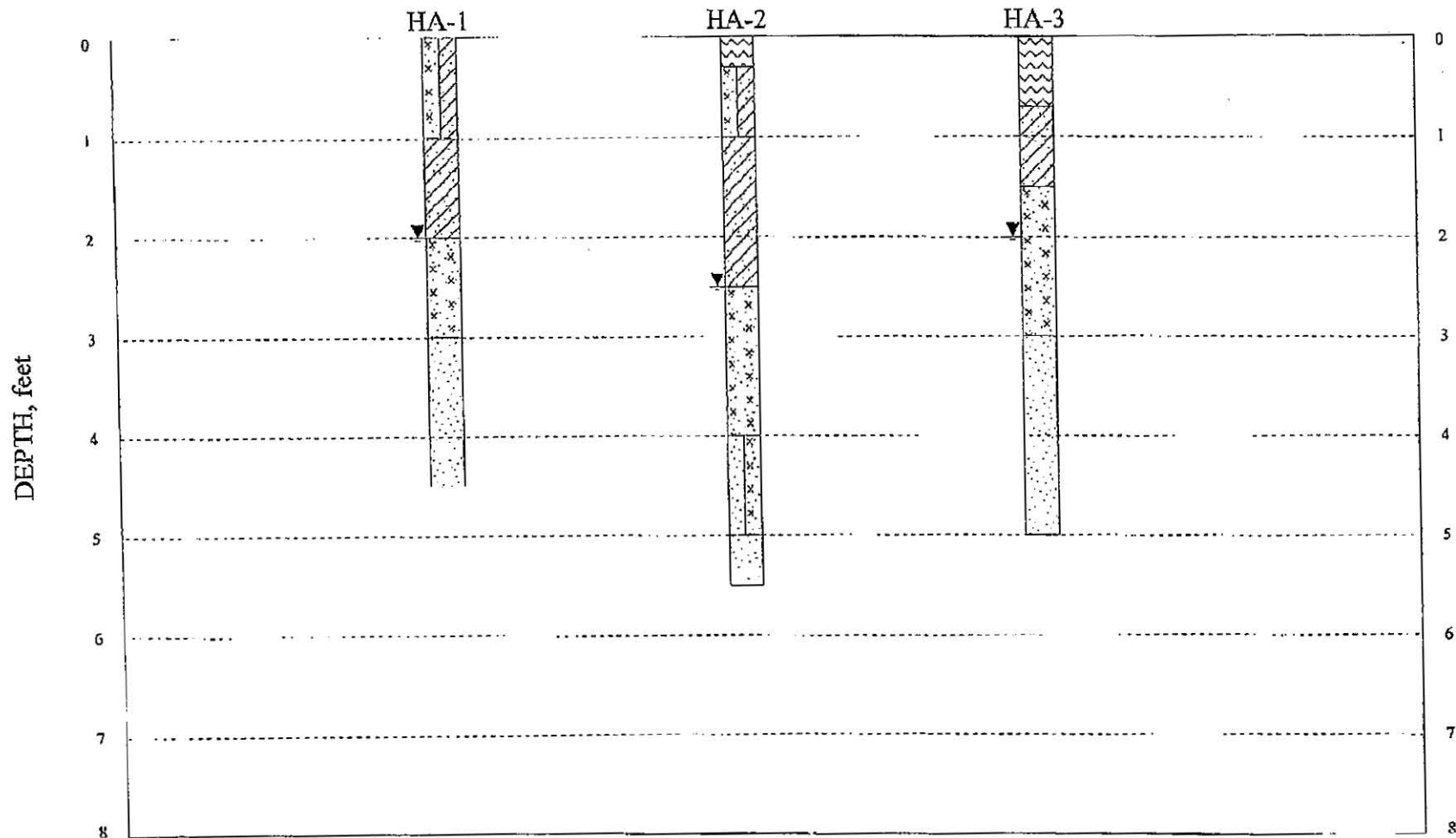


Ref: Original plan drawn by Hassell & Folkes, P.C.

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1808 Hayward Avenue
Chesapeake, Virginia 23325-0337

Scale:	---	Approved By:	David P. Rediger, E.I.T.	Date:	2/9/01
Project:	Proposed Etheridge Greens Golf Course Chesapeake, Virginia				
Drawing Title:	Hand Auger Boring Location Plan				Drawing Number: 1-01-2004



Subsurface Profile	
Drawing 2	
PROJECT	Proposed Etheridge Greens Golf Course
PROJECT NO. 01-2004	
McCALLUM TESTING LABORATORIES, INC.	

DEPTH (FT.)	DESCRIPTION	DEPTH (FT.)	TEST RESULTS / REMARKS
0.0			
1.0	Dark brownish gray, clayey silty fine to medium sand, moist, SM-SC (Sandy Loam)	1	
2.0	Dark gray, silty clayey fine to medium sand, moist, SC (Sandy Loam)	2	▼
3.0	Dark gray, silty fine to medium sand with traces of clay, wet, SM (Loamy Sand)	3	
4.5	Light grayish brown, fine sand, wet, SP (Sand)	4	
	BORING TERMINATED AT 4.5 FEET	5	
		6	

--- Stratum Change
 ▼ - Groundwater Level at Time of Boring
 ▽ - Stabilized Groundwater Level Measured in Well
 MC% - Natural Percent Moisture (ASTM D 2216)
 LL - Liquid Limit (ASTM D 4318)
 PL - Plastic Limit (ASTM D 4318)
 PI - Plasticity Index (ASTM D 4318)
 -200 - Percent Passing a #200 Sieve (ASTM D 1140)

HAND AUGER BORING RECORD

BORING NUMBER HA-1
DATE DRILLED February 1, 2001
PROJECT NUMBER 01-2004
PROJECT Proposed Etheridge Greens Golf Course
LOCATION Chesapeake, Virginia

McCALLUM TESTING LABORATORIES, INC.

DEPTH (FT.)	DESCRIPTION	DEPTH (FT.)	TEST RESULTS / REMARKS
0.0			
0.3	Topsoil - 4"		
1.0	Dark brownish gray, clayey silty fine to medium sand, moist, SM-SC (Sandy Loam)	1	
2.5	Dark gray, silty clayey fine to medium sand, moist, SC (Sandy Loam)	2	
4.0	Dark gray, silty fine to medium sand with traces of clay, wet, SM (Loamy Sand)	3	
5.0	Grayish brown, silty fine sand, wet, SP-SM (Sand)	4	
5.5	Light grayish brown, fine sand, wet, SP (Sand)	5	
	BORING TERMINATED AT 5.5 FEET	6	

— Stratum Change
 ▼ Groundwater Level at Time of Boring
 ▽ Stabilized Groundwater Level Measured in Well
 MC% - Natural Percent Moisture (ASTM D 2216)
 LL - Liquid Limit (ASTM D 4318)
 PL - Plastic Limit (ASTM D 4318)
 PI - Plasticity Index (ASTM D 4318)
 -200 - Percent Passing a #200 Sieve (ASTM D 1140)

HAND AUGER BORING RECORD

BORING NUMBER HA-2
DATE DRILLED February 1, 2001
PROJECT NUMBER 01-2004
PROJECT LOCATION Proposed Etheridge Greens Golf Course
 Chesapeake, Virginia

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DEPTH (FT.)	DESCRIPTION	DEPTH (FT.)	TEST RESULTS / REMARKS
0.0			
	Topsoil - 8"		
0.7			
	Dark brown, silty clayey fine to medium sand, moist, SC (Sandy Loam)	1	
1.5			
	Dark brown, silty fine to medium sand with traces of clay, moist, SM (Loamy Sand)	2	▼
	Same - grayish brown, wet		
3.0		3	
	Grayish brown, fine sand, wet, SP (Sand)	4	
5.0		5	
	BORING TERMINATED AT 5.0 FEET	6	

— - Stratum Change
 ▼ - Groundwater Level at Time of Boring
 ▽ - Stabilized Groundwater Level Measured in Well
 MC% - Natural Percent Moisture (ASTM D 2216)
 LL - Liquid Limit (ASTM D 4318)
 PL - Plastic Limit (ASTM D 4318)
 PI - Plasticity Index (ASTM D 4318)
 -200 - Percent Passing a #200 Sieve (ASTM D 1140)

HAND AUGER BORING RECORD

BORING NUMBER	HA-3
DATE DRILLED	February 1, 2001
PROJECT NUMBER	01-2004
PROJECT	Proposed Etheridge Greens Golf Course
LOCATION	Chesapeake, Virginia

McCALLUM TESTING LABORATORIES, INC.