

DRILLER: REMOVE COPY AND RETAIN FOR YOUR RECORDS. RETURN COUNTY COPY TO COUNTY ENVIRONMENTAL AGENCY. SUBMIT COPY TO OWNER. RETURN ALL OTHER PARTS TO DEPARTMENT OF ENVIRONMENT, 2500 BROENING HIGHWAY, BALTIMORE, MARYLAND 21224.

C1 3872		SEQUENCE NO. (MDE USE ONLY)		STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE TYPE		THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.																			
1 2 3 4 5 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)						COUNTY NUMBER 59935 HO-94-3845																			
ST/CO USE ONLY DATE Received MM DD YY 8 13		DATE WELL COMPLETED MM DD YY 03 04 2004		Depth of Well 22 300 26 (TO NEAREST FOOT)		PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-94-3845																			
OWNER last name <u>BUICE</u> first name <u>ROBERT</u>		STREET OR RFD <u>RIVERCREST COURT</u>		TOWN <u>GLENWOOD</u>																					
SUBDIVISION <u>RIVERCREST</u>		SECTION		LOT <u>PARCEL A</u>																					
WELL LOG Not required for driven wells				GROUTING RECORD																					
<div style="text-align: center;">STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING</div> <table border="1" style="width:100%; border-collapse: collapse;"><thead><tr><th rowspan="2">DESCRIPTION (Use additional sheets if needed)</th><th colspan="2">FEET</th><th rowspan="2">check if water bearing</th></tr><tr><th>FROM</th><th>TO</th></tr></thead><tbody><tr><td>Overburden</td><td>0</td><td>50</td><td></td></tr><tr><td>Gray Rock</td><td>50</td><td>300</td><td>x</td></tr><tr><td colspan="4">water at 63', 200' & 261'</td></tr></tbody></table>				DESCRIPTION (Use additional sheets if needed)	FEET		check if water bearing	FROM	TO	Overburden	0	50		Gray Rock	50	300	x	water at 63', 200' & 261'				WELL HAS BEEN GROUTED (Circle Appropriate Box) Y N			
					DESCRIPTION (Use additional sheets if needed)	FEET		check if water bearing																	
				FROM		TO																			
				Overburden	0	50																			
				Gray Rock	50	300	x																		
water at 63', 200' & 261'																									
TYPE OF GROUTING MATERIAL (Circle one)																									
CEMENT CM BENTONITE CLAY BC																									
NO. OF BAGS 13 NO. OF POUNDS 1300																									
GALLONS OF WATER 78																									
DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 52 ft. (enter 0 if from surface)																									
CASING RECORD																									
<div style="text-align: center;">casing types insert appropriate code below</div> <table border="1" style="width:100%; border-collapse: collapse;"><tr><td>ST STEEL</td><td>CO CONCRETE</td></tr><tr><td>PL PLASTIC</td><td>OT OTHER</td></tr></table>				ST STEEL	CO CONCRETE	PL PLASTIC	OT OTHER																		
				ST STEEL	CO CONCRETE																				
PL PLASTIC	OT OTHER																								
MAIN CASING TYPE PL																									
Nominal diameter top (main) casing (nearest inch) 6																									
Total depth of main casing (nearest foot) 55																									
OTHER CASING (if used)																									
EACH CASING diameter inch depth (feet) from to																									
SCREEN RECORD																									
<div style="text-align: center;">screen type or open hole (insert appropriate code below)</div> <table border="1" style="width:100%; border-collapse: collapse;"><tr><td>ST STEEL</td><td>BR BRASS BRONZE</td><td>HO OPEN HOLE</td></tr><tr><td>PL PLASTIC</td><td>OT OTHER</td><td></td></tr></table>				ST STEEL	BR BRASS BRONZE	HO OPEN HOLE	PL PLASTIC	OT OTHER																	
				ST STEEL	BR BRASS BRONZE	HO OPEN HOLE																			
PL PLASTIC	OT OTHER																								
SLOT SIZE 1 2 3																									
DIAMETER OF SCREEN (NEAREST INCH) from 56 to 60																									
GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 68																									
MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)																									
T (E.R.O.S.) W Q																									
70 72 74 75 76																									

C 3

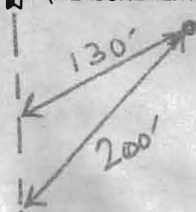
PUMPING TEST

HOURS PUMPED (nearest hour) 3
8 9
PUMPING RATE (gal. per min.) 5.08
11 15
METHOD USED TO MEASURE PUMPING RATE Summers 1619
WATER LEVEL (distance from land surface)
BEFORE PUMPING 20 ft.
17 20
WHEN PUMPING 59 ft.
22 25
TYPE OF PUMP USED (for test)
A air P piston T turbine
C centrifugal R rotary O other (describe below)
J jet S submersible
27 27 27

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) NO
IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.
TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29 29
CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35
PUMP HORSE POWER 37 41
PUMP COLUMN LENGTH (nearest ft.) 43 47
CASING HEIGHT (circle appropriate box and enter casing height)
+ above - below 49
LAND SURFACE (nearest foot) 1 50 51

LOCATION OF WELL ON LOT

SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)


B 1 <div style="font-size: 24pt; font-weight: bold; margin-left: 10px;">5654</div> <div style="font-size: 8pt; margin-left: 10px;">1 2 3 6</div>	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL <div style="font-size: 18pt; font-weight: bold; margin-top: 5px;">519644</div> please type	STATE PERMIT NUMBER <div style="font-size: 18pt; font-weight: bold; margin-top: 5px;">H0-94-3845</div> <div style="font-size: 8pt; margin-top: 5px;">70 fill in this form completely 79</div>
Date Received (APA) <div style="font-size: 12pt; margin-top: 5px;">10/29/03</div> <div style="font-size: 8pt; margin-top: 5px;">8 MM DD YY 13</div>		B 3 LOCATION OF WELL <div style="font-size: 18pt; font-weight: bold; margin-top: 5px;">Howard</div> <div style="font-size: 8pt; margin-top: 5px;">8 COUNTY 21</div> <div style="font-size: 12pt; margin-top: 5px;">Buice Property - Rivercrest</div> <div style="font-size: 8pt; margin-top: 5px;">23 SUBDIVISION 42</div> <div style="font-size: 12pt; margin-top: 5px;">SECTION 44 46 LOT 48 50</div> <div style="font-size: 12pt; margin-top: 5px;">Coleswood</div> <div style="font-size: 8pt; margin-top: 5px;">52 NEAREST TOWN 71</div> <div style="font-size: 8pt; margin-top: 5px;">MILES FROM TOWN (enter 0 if in town) 3 M 1 73 76 77 78</div>	
OWNER INFORMATION <div style="font-size: 12pt; margin-top: 5px;">Buice Robert</div> <div style="font-size: 8pt; margin-top: 5px;">15 Last Name 20 Owner 34 First Name</div> <div style="font-size: 12pt; margin-top: 5px;">7979 Muncester M-11 Road</div> <div style="font-size: 8pt; margin-top: 5px;">36 Street or RFD 55</div> <div style="font-size: 12pt; margin-top: 5px;">Cenithsburg MD 20877</div> <div style="font-size: 8pt; margin-top: 5px;">57 Town 70 State 72 Zip 76</div>		DRILLER INFORMATION <div style="font-size: 12pt; margin-top: 5px;">Sandy B Cochran</div> <div style="font-size: 8pt; margin-top: 5px;">Driller's Name 76 License No. 81</div> <div style="font-size: 12pt; margin-top: 5px;">G Edgar Harr Sons Corp</div> <div style="font-size: 8pt; margin-top: 5px;">Firm Name</div> <div style="font-size: 12pt; margin-top: 5px;">12047 Falls Rd Cockeysville 21030</div> <div style="font-size: 8pt; margin-top: 5px;">Address</div> <div style="font-size: 12pt; margin-top: 5px;">[Signature]</div> <div style="font-size: 8pt; margin-top: 5px;">Signature 10/21/03 Date</div>	
B 2 WELL INFORMATION <div style="font-size: 8pt; margin-top: 5px;">1 2</div> <div style="font-size: 12pt; margin-top: 5px;">APPROX. PUMPING RATE 5</div> <div style="font-size: 8pt; margin-top: 5px;">(GAL. PER MIN.) 8 12</div> <div style="font-size: 12pt; margin-top: 5px;">AVERAGE DAILY QUANTITY NEEDED 750</div> <div style="font-size: 8pt; margin-top: 5px;">(GAL. PER DAY) 14 20</div>		B 4 <div style="font-size: 8pt; margin-top: 5px;">1 2</div> <div style="font-size: 8pt; margin-top: 5px;">DIRECTION OF WELL FROM TOWN (CIRCLE BOX)</div> <div style="text-align: center;"> </div> <div style="font-size: 12pt; margin-top: 5px;">ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)</div> <div style="text-align: center;"> </div> <div style="font-size: 12pt; margin-top: 5px;">DISTANCE FROM ROAD 100 FT</div> <div style="font-size: 8pt; margin-top: 5px;">ENTER FT OR MI 38 39</div> <div style="font-size: 12pt; margin-top: 5px;">TAX MAP: 21 BLK: 20 PARCEL 84</div>	
USE FOR WATER (CIRCLE APPROPRIATE BOX) <div style="font-size: 8pt; margin-top: 5px;">D DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION</div> <div style="font-size: 8pt; margin-top: 5px;">F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)</div> <div style="font-size: 8pt; margin-top: 5px;">I INDUSTRIAL, COMMERCIAL, DEWATERING</div> <div style="font-size: 8pt; margin-top: 5px;">P PUBLIC WATER SUPPLY WELL</div> <div style="font-size: 8pt; margin-top: 5px;">T TEST, OBSERVATION, MONITORING</div> <div style="font-size: 8pt; margin-top: 5px;">G GEO-THERMAL</div>		NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL <div style="font-size: 12pt; margin-top: 5px;">Howard</div> <div style="font-size: 8pt; margin-top: 5px;">COUNTY NAME 59935 COUNTY NO.</div> <div style="font-size: 8pt; margin-top: 5px;">STATE SIGNATURE INSERT S 41</div> <div style="font-size: 12pt; margin-top: 5px;">DATE ISSUED 11/5/03</div> <div style="font-size: 8pt; margin-top: 5px;">43 MM DD YY 48 CO SIGNATURE EXP. DATE 11/5/04</div> <div style="font-size: 8pt; margin-top: 5px;">NORTH GRID 510 000 EAST GRID 780 000</div> <div style="font-size: 8pt; margin-top: 5px;">50 55 57 63</div>	
APPROXIMATE DEPTH OF WELL 250 FEET <div style="font-size: 8pt; margin-top: 5px;">24 28</div>		APPROXIMATE DIAMETER OF WELL 6 INCH <div style="font-size: 8pt; margin-top: 5px;">NEAREST INCH</div>	
METHOD OF DRILLING (circle one) <div style="font-size: 8pt; margin-top: 5px;">BORED (or Augered) JETTED Jetted & DRIVEN</div> <div style="font-size: 8pt; margin-top: 5px;">30 AIR-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary)</div> <div style="font-size: 8pt; margin-top: 5px;">37 CABLE REVERSE-ROTary Drive-POINT</div> <div style="font-size: 8pt; margin-top: 5px;">other</div>			
REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX) <div style="font-size: 8pt; margin-top: 5px;">N THIS WELL WILL NOT REPLACE AN EXISTING WELL</div> <div style="font-size: 8pt; margin-top: 5px;">Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED</div> <div style="font-size: 8pt; margin-top: 5px;">39 S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS</div> <div style="font-size: 8pt; margin-top: 5px;">D THIS WELL WILL DEEPEAN AN EXISTING WELL</div> <div style="font-size: 8pt; margin-top: 5px;">PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 52</div>			
Not to be filled in by driller (MDE OR COUNTY USE ONLY) <div style="font-size: 8pt; margin-top: 5px;">APPROP. PERMIT NUMBER - - - - - G - - - - -</div> <div style="font-size: 8pt; margin-top: 5px;">PERMIT No. H0-94-3845</div> <div style="font-size: 8pt; margin-top: 5px;">70 71 72 73 74 75 76 77 78 79</div>			
SPECIAL CONDITIONS <div style="font-size: 8pt; margin-top: 5px;">NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED</div>			

Page 1 of 1
Date 1-2-04

Review _____

FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 94-3845
Location of property (road) RIVERCREST COURT
Subdivision RIVERCREST Lot PA Block _____ Plat _____ Sec. _____
Well Driller G EDGAR HARR Owner ROBERT BAILE

Depth of well 300'
Distance of measuring point (M.P.) above ground 1'
Static water level (S.W.L.) below M.P. 20'

I. High rate pumping -- reservoir drawdown

Time pump started 0715 Pumping rate 16.66
Total time 15 Min to reach pumping water level 103 ft. below M.P.

II. Recovery pump test data - observations to be recorded every 15 minutes

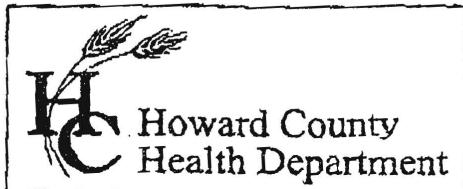
TIME (in 15 minute intervals)	WATER LEVEL below M.P.	PUMPING RATE time to fill 5 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
0715	20'	18		16.66
0730	103'	26		11.53
0745	172'	34		8.82
0800	236'	40		7.50
0815	260'	50		6.00
0830	260'	58		5.17
0845	268'	59		5.08
0900	268'	59		5.08
0915	268'	59		5.08
0930	268'	59		5.08
0945	268'	59		5.08
1000	268'	59		5.08
1015	268'	59		5.08
1030	268'	59		5.08
1045	268'	59		5.08
1100	268'	59		5.08

Well Permit No. HO - 94-3845
Location of property (road) ~~RIVERCREST COURT~~ Roxbury Mill Rd
Subdivision RIVERCREST Lot P-A Block Plat Sec.
Well Driller GEDGAR HARR Owner ROBERT BUICE

I. High rate pumping -- reservoir drawdown

II. Recovery pump test data - observations to be recorded every 15 minutes

[illegible]



3525 H Ellicott Mills Drive • Ellicott City, MD 21043
(410) 313-2640 Fax (410) 313-2640
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

ATTENTION WELL DRILLERS!!!

When submitting a well application for a new or replacement well, please indicate one of the following: Rivercrest Subdivision, All lots

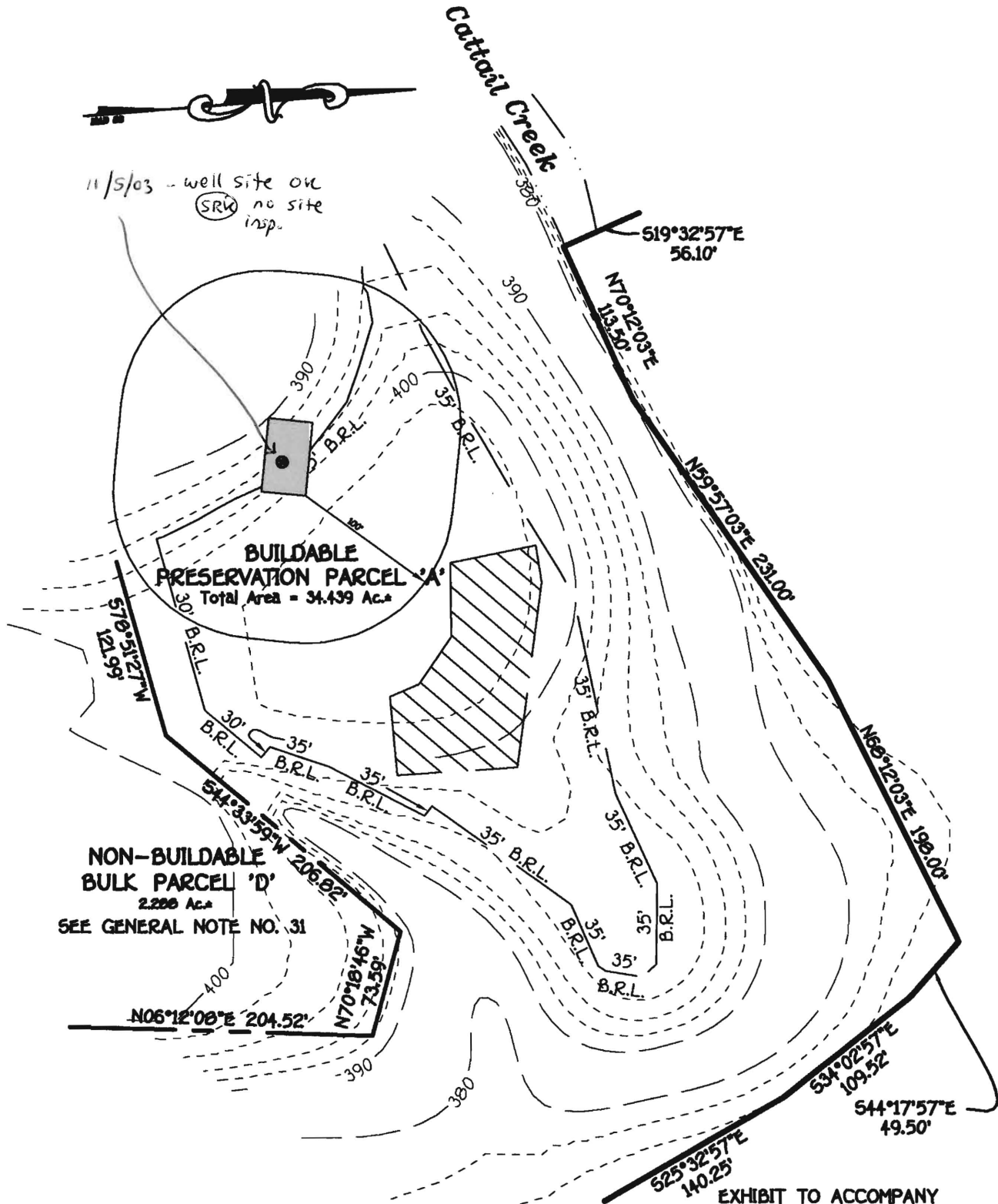
- ☒ The well site has been staked by Fisher, Collins & Carter on 11-2-03 and is ready for site inspection.
- ☐ _____ will call the Health Department for a time to meet in the field to verify a well location.
- ☐ Site plan for new well is attached to well permit application.

Please attach this sheet when submitting your green application. This should help improve communication allowing a more timely service for our citizens.

KN



11/5/03 - well site on
 (SRW) no site
 insp.



FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21042
 (410) 461 - 2855

EXHIBIT TO ACCOMPANY
 WELL PERMIT
 BUILDABLE PRESERVATION
 PARCEL 'A'
 RIVERCREST
 TAX MAP 21 GRID 20 PARCEL 84
 HOWARD COUNTY, MARYLAND
 SCALE 1"=100'
 DATE OCTOBER 22, 2003

**FISHER, COLLINS
& CARTER, INC.**

**CIVIL ENGINEERING CONSULTANTS
and LAND SURVEYORS**

Terrell A. Fisher, P.E., L.S.
Earl D. Collins, P.E.
Ronald B. Carter, L.S.
Charles J. Crovo, Sr., P.E., L.S.

November 4, 2003

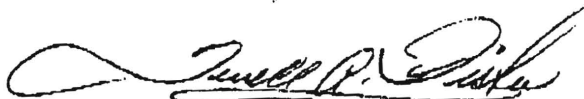
Mr. Steve Kreig
Howard County Health Department
3525 Ellicott Mills Drive
Ellicott City, Maryland 21043

RE: Rivercrest Subdivision
Well Stakeout

Dear Steve:

This is to advise you that the proposed well location for Lots 3 thru 12; 2 future lots in Bulk Parcel 'D' and Buildable Preservation Parcel A were staked by our firm on October 30th and November 2, 2003 and is ready for site inspection.

Very truly yours,
Fisher, Collins & Carter, Inc.



Terrell A. Fisher, P.E., L.S.

DO NOT DISCARD

WO #30636
c.c. Mr. Mike Isom
Mr. John Komsa