## **OBSERVATION WELL OB-4**

Permit No : 212421

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: ATV-mounted CME 55

The Landings at Peoper Creek Hydrogeological Evaluation Dagsboro, DE

Date Started Date Completed Logged by

: November 30, 2005 : November 30, 2005 : JSD

**Drilling Equipment** Drilling Methods

: 4.25" H.S.A.

: Sunny 60's

Surface Elevation Northing

: 17.0 feet : 63,641 U.S. Meters DE SPC NAD 83

				3.YC		Weather Orller/Agency	: Sunny, 60's : G Truver Sr./Walti	оп Согр		orthing asting	: 63,641 U.S. Meters DE SPC NAD 83 : 218,233 U.S. Meters DE SPC NAD 8				
Depth in feet	Surf. Elev. 17.0 ft	GRAPHIC	USCS	NSDA	Sample Condition		Water Levels During Drilling		Sample Sample Number		Recovery (ft)	Well Construction Details	EVEL	Obse V 21	2421 Vell Elev. 19.75 seng Rim
2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	16.7		SP	S	medium SAND	), trace organic vellow fine to n	grayish brown fine to cs. trace to no silt (dry nedium SAND, trace o	,	1A 1B 2	2-2-2-3	1.4	2" Schedule 40 PVC Solid – Well Casing			17.0 ft
8-	10.8 10.3 9.0		SP-SM SP	LS/S S	SAME. 2.5Y 6/8 olive y (small lenses o	f 10YR 6/8 bro (dry). ellow fine to m	nedium SAND, trace s whish yellow fine to m nedium SAND, trace of	edium K	4A 4B 4C	3-4-4-4	1.5	Cement/ Bentonite – Grout			
10-	9.0				5Y 7/4 pale yel (damp).	low very fine to	o fine SAND, trace slit		5	2-4-5-6	1.7				
124			SM	LS/SL	SAME (5Y 6/6 to damp).  SAME, trace to		loring at top of sample	o) (dry	7	7-7-7 3-4-6-5	2.0	Sand Pack -	₩		4.5
14-		.[.].	• • • • • • • • • • • • • • • • • • • •		,	1	***************************************					#2 well sand			<u> </u>

## NOTES:

NOTES:

1. Test boring terminated at 25.0 feet +/- below existing ground surface (b.e.g.s.).

2. Some topsoil removed for previous cleering.

3. Wet-on-spoon at 14.0 feet +/- water level within the augers at 13.4 feet +/- with the bottom of the augers at 14.0 feet +/- b.e.g.s.

4. Observation Well MW-1 (DNREC ID 212421) installed upon completion.

5. Auger boring performed in general accordance with ASTM D 1452.

Split-barrel sampling performed in general accordance with the Method for Penetrative Test and Split-Barrel Sampling (ASTM D 1586).
 Soli descriptions performed in general accordance with ASTM D 2488, the Practice for Description and Identification of Solls (Visual-Manual Procedure).



Consultants in the Geosciences

## **OBSERVATION WELL OB-4**

Permit No : 212421

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The Landings at Pepper Creek Hydrogeological Evaluation

Date Started Data Completed : November 30, 2005 : November 30, 2005

Drilling Equipment Drilling Methods

: ATV-mounted CME 55 : 4.25" H.S.A.

Dagsboro, DE

Logged by : JSD Surface Elevation

: 17.0 feet

6143.YC

Weather

: Sunny, 60's

Northing

: 63,641 U.S. Meters DE SPC NAD 83

<u> </u>			1	···	T	Oriller/Agency	gency : G Truver Sr./Walton Corp		Ee	sting	: 21	NAD 83		
Depth in feet	Surf. Elev. 17.0 ft	GRAPHIC	USCS	USDA	Sample Condition Remolded		Water Levels  During Drilling  RIPTION	SAMPLES	Sample Number	Blows per 6 inches	Recovery (ft)	Well Construction Details	WATER LEVEL	Observation Well 212421 Surf. Elev.
14-					SAME, trace to (lense of some	little silt, trace clay 14.4 to 1	e medium sand (seturated) 14.7 feet +/-).		8	2-3-3-3	1.9		^	17.0 f
16-			SM	LS/SL	SAME, trace to granules 17.0 t	E, trace to little silt (saturated) (lense of trace ules 17.0 to 17.2 feet +/-).				2-5-6-6 2	2.0			
20+	-3.0		SP-SM	LS/S	5Y 7/3 pale yell granules, trace	ow medium to pebbles, trace	o coarse SAND, little e slit (saturated).	$\bigvee$	10	WR-WR-4- 6	1.1	2" Schedule 40 PVC Screened Well- Casing - 0,020		
22-	-5.0		SC-SM	LS	5Y 7/3 medium sit/clay, trace o granules/pebble	coarse sand (le	granules/pebbles, little ense of very fine sand, little o 21.5 feet +/-).	$\bigvee$	11	4-6-4-7	2.0	slot		
-	-6.5		SP-SM	LS/\$	5Y 7/2 light gray coarse sand, tra of clay, trace m feet +/-).	y fine to mediu ace granules, edium to coar	um SAND, little to some trace silt (saturated) (lense se sand from 22.0 to 22.3	$\bigvee$	12	2-2-6	1.0			
24-	-8.0		SP-SM	LS/S	5Y 7/2 light grattrace fine sand,	y coarse SAN trace silt, trac	D, trace medium sand, ce granules.	N	13	7-9-11	0.9			7.3 -7.9
26-	ļ		į											
28-														

## NOTES:

NOTES:

1. Test boring terminated at 25.0 feet +/- below existing ground surface (b.e.g.s.).

2. Some topsoil removed for previous clearing.

3. Wet-on-spoon at 14.0 feet +/- water level within the augers at 13.4 feet +/- with the bottom of the augers at 14.0 feet +/- b.e.g.s.

4. Observation Well MW-1 (DNREC ID 212421) installed upon completion.

5. Auger boring performed in general accordance with ASTM D 1452.

Split-barrel sampling performed in general accordance with the Method for Penetrative Test and Split-Barrel Sampling (ASTM D 1596).
 Soil descriptions performed in general accordance with ASTM D 2488, the Practice for Description and Identification of Soils (Visual-Manual Procedure).