

Environmental Concepts, LLC

1684 Magnolia Dr., Bedford, VA 24523
 Phone: 804-467-4480, 540-815-2954 Fax: 540-587-8706

AOSE Report For Subdivision Approval

Location of Property:	Lot <u>B</u> Section _____ Subdivision _____ Bedford County GPIN or Tax Map # _____ 148-A-32 part of _____ Latitude/Longitude _____
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Applicant or Client and Address: KRW, LLC P.O. Box 628 Bedford, VA 24523	Prepared By AOSE (name and address): Clifton D. Overstreet #1104 1684 Magnolia Dr. Bedford, VA 24523
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Date of Report: <u>March 20, 2017</u> Revision Date: _____	AOSE/PE Job Number: _____ Health Dept. ID. No.: _____
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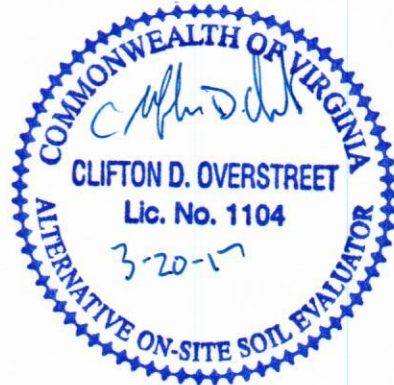
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2. Soil Information Summary	5. site sketch		
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Certification Statement(s)

I hereby certify that the evaluation and/or designs contained herein were conducted in accordance with the Sewage Handling and Disposal Regulations (12 VAC5-610), the Private Well Regulations (12 VAC5-615), and other applicable policies of the Virginia Department of Health. Furthermore, I certify that my evaluation and/or design contained herein complies with all applicable laws, regulations and policies implemented by the Virginia Department of Health. The work attached to this cover page has been conducted under an exemption to the practice of engineering. Code of VA 54.1-402.A.11

I recommend a Subdivision Approval be _____ approved



Environmental Concepts, LLC

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A.O.S.E. #1104

DATE: March 20, 2017

SUBMITTED TO: Bedford County Health Department

APPLICANT: KRW, LLC

P.O. Box 628

Bedford, VA 24523

LOCATION: Parcel B; 9.730 on East Lynchburg-Salem Turnpike; Bedford County, Virginia

PROPOSED USE: New Single Family Residence

3 Bedroom (450 gallons/day), Termite treated, basement

WATER SUPPLY: New Private Class III B Well, Deep Drilled

PROPOSED INSTALLATION: New Type I, In-Ground Septic Tank Effluent Drainfield System
(Conventional Gravity)

SOIL INFORMATION SUMMARY:

Parent Material: Soils are residual, weathered rocks of the Piedmont Physiographic Province.

Position in landscape satisfactory: Yes X No

Description of landscape: Upland sideslope, linear-linear topo, Agricultural field Sideslope.

Slope: 18 % Depth to Cr or rock: Max. " Min. None X.

Depth to impervious strata (): Max. >15' Min. >5' None X.

Depth to Redox mottles: N/A in. Depth to Chroma 2 mottles: N/A in.

Free water present: Yes No X Range N/A in.

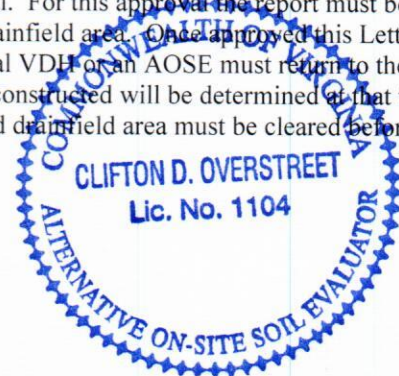
Soil percolation rate: 45 min/in. (Estimated). Texture Group: IIB.

Site Evaluated By: Doug Overstreet #1104 Date of Evaluation: March 13, 2017

WATER SUPPLY CONSTRUCTION SPECIFICATIONS:

Proposed Water Supply: Class IIIB Cased: 50'+ Grouted: 50'+

This is not a Drainfield Construction Permit. This report is to certify that an area exists for the permitting of a drainfield and well. This report is valid only if presented to the local VDH office for their approval. For this approval the report must be accompanied by an application, fee and stamped plat showing the survey located drainfield area. Once approved this Letter of Certification does not expire and is transferable. When the permit is needed the local VDH or an AOSE must return to the property to complete the design. The actual type and design of the drainfield and well to be constructed will be determined at that time, based on site conditions and the regulations current during that visit. If the proposed drainfield area must be cleared before the permit has been issued, follow the provided clearing instructions.



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LOCATION: Parcel B; 9.730 on East Lynchburg-Salem Turnpike; Bedford County, Virginia

ABBREVIATED DESIGN INFORMATION:

Proposed Primary Drainfield: Type I, In-Ground Septic Tank Effluent Drainfield System
(Conventional Gravity)

Soil percolation rate: 45 min/in. (Estimated). Texture Group: II .

Separation distance required: 18 in. Limiting depth () : in.

Minimum installation depth required by system and/or slope: 18 in.

Depth from ground surface to bottom of trench: 54 in.

Square ft. required per bedroom: 344 .

Total square ft. required for drainfield: 3 bedroom 1032 .

Design layout for primary drainfield

5 lines x 70 ft. in length x 3 ft. wide = 1050 sq. ft.

Center-to-Center spacing proposed adjusting for slope: 10 ft.

Area needed for design: 43' x 70' (3010 sq. ft.)

Area documented: 50' x 100' (5000 sq. ft.)

Depth of aggregate 13" of $\frac{1}{2}$ " to $1\frac{1}{2}$ " of clean stone

Proposed Reserve Drainfield: None



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SOIL PROFILE :

HOLE# NAME	HORIZON	DEPTH INCHES	DESCRIPTION OF SOIL CHARACTERISTICS	TEXTURE GROUP
#7	Ap	0-3	10 YR 4/4 brown; friable; loam	II
CDO	Bt	3-30	2.5YR 4/8 red; friable; heavy clay loam	III
BH	BC	30-40	2.5YR 5/6 red with 5YR 5/6 yellowish red; friable; micaceous; sandy clay loam	III
	C	40-72	5YR 5/4 reddish brown with 5YR 5/6 yellowish red; friable; micaceous; sandy loam	II
#8	Ap	0-4	10 YR 4/4 brown; friable; loam	II
CDO	Bt	4-32	2.5YR 4/8 red; friable; heavy clay loam	III
BH	BC	32-40	2.5YR 5/6 red with 5YR 5/6 yellowish red; friable; micaceous; sandy clay loam	III
	C	40-72	5YR 5/4 reddish brown with 5YR 5/6 yellowish red; friable; micaceous; sandy loam	II
#9	Ap	0-4	10 YR 4/4 brown; friable; loam	II
CDO	Bt	4-28	2.5YR 4/8 red; friable; heavy clay loam	III
BH	BC	26-38	2.5YR 5/6 red with 5YR 5/6 yellowish red; friable; micaceous; sandy clay loam	III
	C	38-72	5YR 5/4 reddish brown with 5YR 5/6 yellowish red; friable; micaceous; sandy loam	II



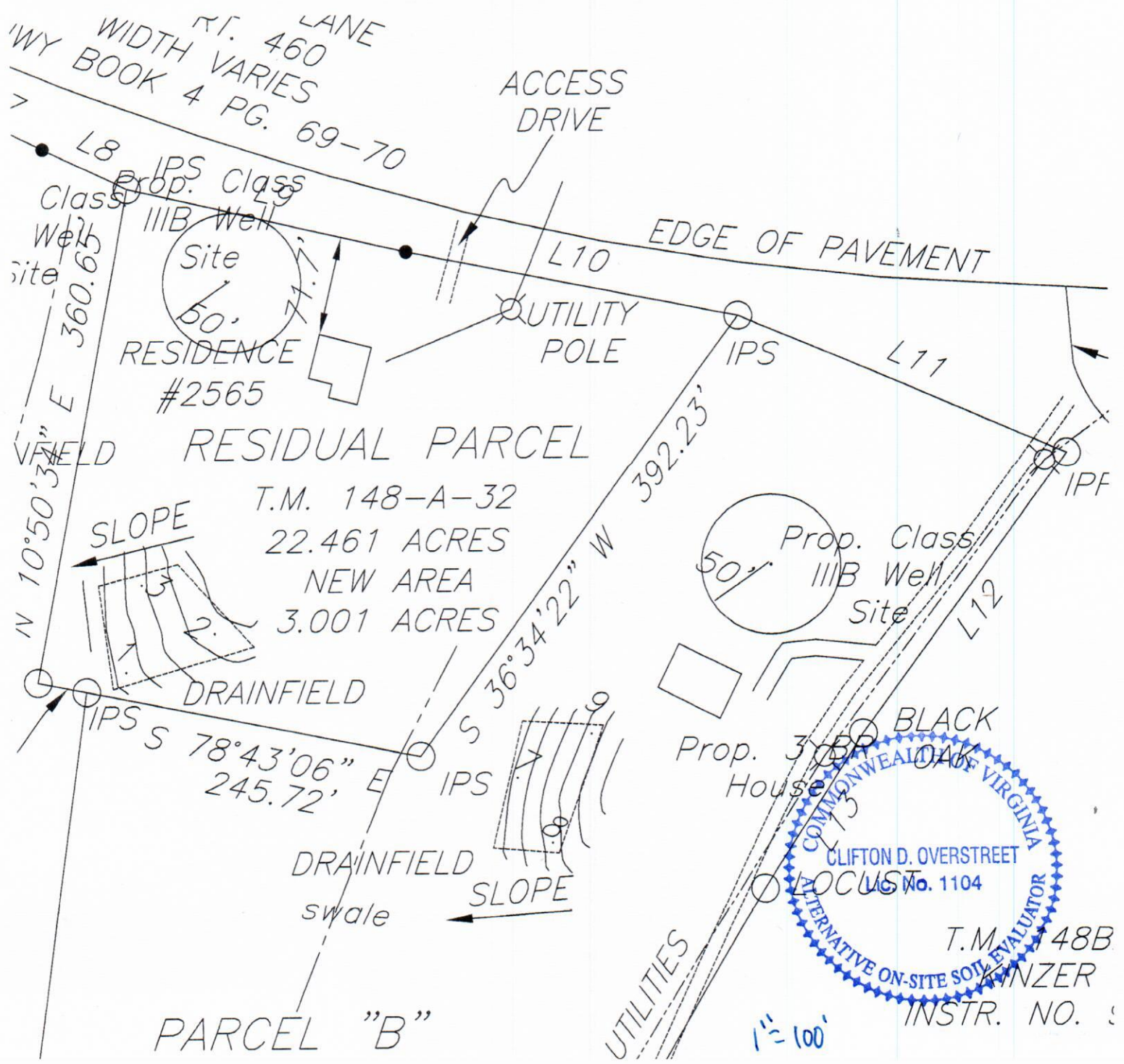
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LOCATION: Parcel B; 9.730 on East Lynchburg-Salem Turnpike; Bedford County, Virginia
SITE SKETCH:

Included on this site sketch are existing and/or proposed property lines, primary and reserve drainfield area, proposed building location, driveway, well and soil evaluation borings with an accuracy of +/- three feet. As well as any observed existing structures, wells, or drainfields within 200' of the proposed area. All natural geographic features such as drainways, springs, gulleys, etc. that would impact the site evaluation are also included. Any feature not shown on the site sketch were either not observed, did not pertain to this evaluation, or do not exist.



**Addendum to AOSE/PE Certification Statement
For Private Well Construction Permit**

Instructions: Please check one box in 1-3 below. Statement templates for item #2 and #3 are on the following pages.

The proposed well site shown herein,

- 1. Is located a minimum of 50 feet from all property lines.
- 2. Is located within 50 feet of the adjacent property line(s) but I have determined that the adjacent property is not used for an agricultural operation.
 - i. Written affirmation from the adjacent property owner(s) that their property is not used for an agricultural operation.
 - ii. Other confirmation that land use is not an agricultural operation, please describe:
- 3. Is located within 50 feet of an adjacent property line where the property is used for an agricultural operation. For confirmation, I have attached the appropriate documentation pursuant to § 32.1-176.5:2 of the *Code of Virginia*. (check one below)
 - i. Written permission from the adjacent property owner(s) for the well construction.
 - ii. I certify that no other site on the property complies with the Board's Regulations for the construction of a private well.

