

Key Findings

Albemarle County hydrogeologic unit: Lynchburg Group - Mechums River Formation (IV)

Groundwater availability zone: Class 3 (highest groundwater availability)

Hydrogeologic conditions favorable to proposed use? Yes.

Site within groundwater sensitivity zone? No.

Groundwater flow pattern: Groundwater recharge areas include vegetated land onsite and undeveloped, permeable areas within the Mechums River and Lickinghole Creek watersheds, located upgradient of the Site; groundwater discharge areas occur along the Lickinghole Creek and Mechums River streambeds; general groundwater flow direction is assumed to be influenced by topography and likely flows east-northeast, the same direction as local surface water bodies.

Contamination threats on record: None.

Additional contaminant threats observed in field reconnaissance? None.

Impacts of proposed use on existing users: Groundwater availability onsite should be adequate for proposed use without affecting existing users offsite.

BMP recommendations: Maintain vegetated stream buffer as much as possible during development; implement runoff-neutral site plans insofar as practicable.