

VIRGINIA DEPARTMENT OF HEALTH

WATERWORKS DESCRIPTION SHEET

DATE: April 15, 2015

WATERWORKS NAME: Hales Point

WATERWORKS CLASS: 6

COUNTY/CITY: Franklin County

TYPE: Community

LOCATION: From the Town of Rocky Mount, proceed east on Old Franklin Turnpike (State Route 40). At the intersection of Old Franklin Turnpike and Booker T. Washington Highway (State Route 122), turn left (north) onto Booker T. Washington Highway and proceed northeast for approximately 15.5 miles. Turn left (west) at the intersection of Booker T. Washington Highway and Red Bud Lane (State Route 951) and proceed for approximately 0.5 mile. The subject water system is located at the intersection of Red Bud Lane and Hales Point Drive (State Route 1245).

OWNER: SML Water Company, Inc.
Contact: David G. Petrus, President
1807 Murray Road, Unit O
P. O. Box 21173
Roanoke, VA 24018
Phone: (540) 344-9800

OPERATOR: Licensed Classification 6 Operator Required

PERMIT NUMBER: 5067265

TYPE OF TREATMENT: None

SOURCE: Westlake Area Public Water Supply (PWSID 5067244), consecutive to Smith Mountain Lake Central Water Supply (PWSID 5019400)

DESIGN CAPACITY: 11,200 gpd

DESCRIPTION OF THE WATERWORKS

The waterworks is a consecutive water supply to the Westlake Area Public Water Supply, which is a consecutive water supply to the Smith Mountain Lake Central Water Supply, which treats surface water from Smith Mountain Lake at its membrane water treatment plant. The waterworks consists of distribution water mains only.

Source: Per an agreement between the Western Virginia Water Authority (WVWA) and SML Water Company (which is associated with Petrus Environmental Services) dated May 6, 2013, WVWA agreed to allocate 11,200 gpd water capacity for residential use (current and future buildout of remaining residential lots in subdivision). Per the May 6, 2013 letter, storage is provided by the Bedford County Public Service Authority's 1 MG storage tank located in Bedford County on Radford Church Road.

OPERATION PERMIT CONDITIONS

Operation Permit No. 5067265
Waterworks Name: Hales Point

Permit Effective Date: April 15, 2015
Waterworks Class: 6

OPERATOR REQUIREMENTS:

A Class 6 operator shall be in attendance as necessary to perform monitoring and process evaluation, and to make any process adjustments.

OPERATION, MONITORING, AND REPORTING:

Operation, monitoring, and reporting shall be in accordance with Title 32.1 of the *Code of Virginia* and 12VAC5-590 *et seq.* of the *Virginia Waterworks Regulations*.

The monthly operations report must be submitted no later than the 10th day of the month following the month in which data is reported.

WATERWORKS CAPACITY:

Source Capacity:

Per agreement with the Western Virginia Water Authority, Westlake Area Public Water System (PWSID No. 5067244) dated May 6, 2013, allocated capacity is 11,200 gpd.

Treatment Capacity:

No treatment is provided.

Storage and Delivery Requirements:

The waterworks shall provide sufficient storage and distribution pumping capacity to provide a minimum working pressure of 20 psig at all service connections.

The total available system effective storage volume is 5,600 gallons (provided by the Westlake Area Public Water System) which is equivalent to ½ day storage of the water demand of 11,200 gpd.

Permitted Capacity:

This waterworks is permitted for a capacity of 11,200 gpd due to limited source capacity.

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Distribution System: The distribution system consists of meter/valve vaults and approximately 1,600 ft. of 8-inch water mains with associated appurtenances. The vaults are located on the northwest corner of the Red Bud Lane and Hales Point Drive intersection. The meter vault is a below-grade 6 ft. by 6 ft. concrete structure provided with ladder rungs, metal access hatch, and floor drains. The 8-inch water line is reduced to a 4-inch line within the vault, provided with a bypass line, gate valves, and 3-inch water meter. The bypass line is also equipped with ball valves and a 1.5-inch water meter. An adjacent below-grade 6 ft. by 8 ft. concrete vault has ladder rungs, access hatch and floor drains. The valve vault contains a bypass line, gate valve, pressure reducing valve, gate valve, and a pressure relief valve that discharges to the top of the vault. The 1.5-inch bypass line is provided with ball valves, and a 1.5-inch pressure reducing valve. The 8-inch water line interconnects to the Hales Point existing distribution system. The system contains a bulk water meter, backflow prevention device, and a pressure reducing valve.

WATERWORKS CAPACITY

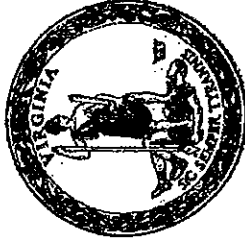
1. Estimated Water Demand: Average Daily Demand = 1,533 gpd*
(*per Monthly Operation Reports dated August 2014 – October 2014,
the average daily water production is 1,533 gpd)
2. Source Capacity: Per agreement with the Westlake Area PWS (PWSID No. 5067244)
Allocated capacity is 11,200 gpd
3. Storage Capacity: Westlake Area PWS - allocated capacity of 5,600 gallons
(BCPSA Radford Church Road 1 MG Tank)
5,600 gallons / 0.5 day = 11,200 gpd

CONCLUSION:

This waterworks is permitted for a capacity of 11,200 gpd due to limited source capacity described above.

OPERATION PERMIT HISTORY

Permit Issuance (Effective Date)	Description / Reason
July 31, 1987	Original permit issued
April 30, 2007	Change in Ownership
April 15, 2015	Elimination of the GW system, consecutive supply to PWSID 5067244



Virginia Department of Health
Office of Drinking Water

Waterworks Operation Permit

SML Water Company, Inc. is hereby granted permission to operate the Hales Point waterworks, a Class 6 community waterworks located in Franklin County, in accordance with Title 32.1 of the *Code of Virginia* and 12VAC5-590 *et seq.* of the *Virginia Waterworks Regulations*. The waterworks has a capacity of 11,200 gpd. This permit is issued with the understanding that this owner shall operate the waterworks in accordance with Part II of the *Virginia Waterworks Regulations* titled "Operation Regulations for Waterworks". This permit does not suspend, minimize, or otherwise alter this owner's obligation to comply with applicable federal, state, or local laws and regulations or permits. This permit may be revoked at any time upon written notice of revocation by the State Health Commissioner if it is determined that SML Water Company, Inc. has failed to comply with this permit, including the Operation Permit Conditions.

Variances or Exemptions issued: (X) None () See Attached

Operation Permit Conditions attached

PERMIT NO.: 5067265

EFFECTIVE DATE: April 15, 2015

APPROVED

John J. Aulbach II, PE, Director, Office of Drinking Water
for the State Health Commissioner pursuant to VA Code § 2.2-604