



COMMONWEALTH of VIRGINIA

Karen Remley, MD, MBA, FAAP
State Health Commissioner

Department of Health

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Processing Office:

Culpeper Field Office
400 South Main Street
Culpeper, VA 22701
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SUBJECT: Loudoun County
WATERWORKS: Raspberry Falls
PWSID: 6107601

WATERWORKS CONSTRUCTION PERMIT

Permit No.: 600811 **Effective Date:** March 14, 2011 **Expiration Date:** March 14, 2016

Issued to:

Loudoun Water
44865 Loudoun Water Way
PO Box 4000
Ashburn, VA 20146

ATTN: Mr. William Haase, E.I., Project Engineer

Plans and specifications for the construction of modifications to the Raspberry Falls community waterworks located in Loudoun County, prepared by Urban, Ltd., and Hazen and Sawyer have been reviewed by this Office. The plans entitled "Construction Plans and Profiles, Raspberry Falls, Raw Water Main, Catoctin Election District, Loudoun County, Virginia" prepared by Urban, Ltd. are dated December 2010 and include sheets 1 of 8 through 8 of 8. The plans refer to Loudoun Water's standard details and specifications approved by this office on February 8, 1991. The plans entitled, "Loudoun Water, Plains of Raspberry, Virginia, Raspberry Falls Water Treatment Plant Improvements" prepared by Hazen and Sawyer, are dated January 2011 and include a cover sheet and sheets M1, M2, E1, and D1. The specifications entitled, "Loudoun County, Virginia, Loudoun Water, Raspberry Falls, Water Treatment Plant Improvements, Project ID Number 20100094" prepared by Hazen and Sawyer, are dated January 2011.

The project consists of addition of well RSP-F, which will replace Well PW-1, including well appurtenances, raw water line, power supply, and controls and tie-in to the existing water treatment facility. Existing Well PW-1 was determined to be Groundwater Under the Direct Influence of Surface Water and has been disconnected from the waterworks. Well RSP-F will combine with existing well PW-2 using existing raw water piping in the water treatment facility. The new raw water line will consist of approximately 4,300 linear feet of 4-inch ductile iron pipe and associated valves and appurtenances. This project also will include installation of UV treatment units in the water treatment building to provide supplemental treatment of the raw water entering the facility, prior to chlorination.

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The plans and specifications information are technically adequate and are approved by this Office, in accordance with 12VAC5-590 of the Commonwealth of Virginia *Waterworks Regulations*. One copy of these documents has been stamped approved and is enclosed.

This approval does not suspend, minimize, or otherwise alter the waterworks obligation to comply with federal, state, or local laws and regulations or permits.

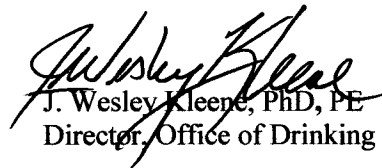
This Waterworks Construction Permit is issued in accordance with Title 32.1 of the Code of Virginia, and 12VAC5-590 et seq. of the *Waterworks Regulations*. This is your authorization from the State Health Commissioner to construct modifications to the subject waterworks in accordance with the approved documents. Any deviations from the approved documents affecting capacity, hydraulic conditions, operating units, the functioning of the treatment processes, or the water quality delivered, must be approved by this Office before any such changes are made. Revised plans and specifications shall be submitted to the Culpeper Field Office in time to permit review and approval before construction.

Upon completion of construction, the owner shall submit a statement signed by a professional engineer licensed in Virginia certifying that the work was completed in accordance with the approved documents.

Upon receipt of this statement, satisfactory results of bacteriological analysis, submittal of recorded well lot plat and dedication documents, and final inspection by an Office representative, the State Health Commissioner will amend your current waterworks operation permit in accordance with the *Regulations*.

If we can be of additional assistance, please contact Robert D. Edelman, P.E., District Engineer in our Culpeper Field Office at 540-829-7340.

Sincerely,


J. Wesley Kleene, PhD, PE
Director, Office of Drinking Water

RDE:tjb

Enclosure(s)

cc: Jon Kyle Erickson, P.E. (Urban, Ltd.)
Aaron W. Duke, P.E. (Hazen & Sawyer)
Loudoun County Health Department
Loudoun County Administrator
Loudoun County Building Official
ODW – Culpeper Field Office
ODW – Central Office