



COMMONWEALTH of VIRGINIA

B. Cameron Webb, MD, JD
State Health Commissioner

Department of Health
P O BOX 2448
RICHMOND, VA 23218

TTY 7-1-1 OR
1-800-828-1120

OFFICIAL ELECTRONIC COMMUNICATION- NO HARD COPY TO FOLLOW

GROUNDWATER SYSTEM SANITARY SURVEY REPORT

January 27, 2026

To: Ms. Pam Baughman, General Manager
Louisa County Water Authority (LCWA)
23 Loudin Avenue
Louisa, Virginia 23093

SUBJECT: LOUISA COUNTY
Waterworks: Zion Crossroads
PWSID: 2109990
Const. Permit # 402822

Present at Survey: Mr. Chris Crompton

On January 21, 2026, I performed the final inspection of Spring Creek Well No. 2 for the Zion Crossroads in Louisa County. The installation of the well and the existing chlorine feed system for the well was according to the approved plans. Spring Creek Well No. 1 final inspection was done on May 15, 2024.

Spring Creek Well Nos. 2 and 3 are chlorinated by the same chlorination system and the wells are alternated. Well No. 3 is already in use. Water from all 3 wells transfer water directly into the distribution system.

Well No. 2 well pump is controlled by the water level in the elevated tank at Zion Crossroads. The well pump cuts off when the water level in the elevated tank reaches 70 % full. Well No. 2 was pumping about 175 gpm at 108 psi and the chlorine residual going into the distribution system was 0.68 mg/l at the time of inspection. The chlorination system consisted of a 15-gallon chlorine solution tank containing 12.5% solution from the manufacturer and a 1.6 gph chemical feed pump.

Please visit our web site at www.vdh.virginia.gov/odw. There you will find helpful information on water sampling and testing, operator licensing and training, consumer education, project funding and many other topics, as well as, links to other key websites and Virginia's Waterworks Regulations. If you have questions or desire to discuss our findings, please contact me at (804) 664-4404.

Survey by:

Azhar Mirza
Azhar N. Mirza
District Engineer

cc: Blue Ridge Health District., attn: Environmental Health Manager
Christian Goodwin, Louisa County Administrator – info@louisa.org
Building Official, Louisa County, jgrubbs@louisa.org

OFFICIAL ELECTRONIC COMMUNICATION- NO HARD COPY TO FOLLOW

VIRGINIA DEPARTMENT OF HEALTH
OFFICE OF DRINKING WATER
GROUNDWATER SYSTEM SANITARY SURVEY REPORT

SUBJECT: LOUISA COUNTY
WATERWORKS: Louisa County Zion Crossroads
PWSID: 2109990
Construction Permit # 402822

PART I - SYSTEM BACKGROUND

GENERAL INFORMATION

Owner Name: County of Louisa	Waterworks Class: 4
Type of Waterworks: Community	
Contact Name: Ms. Pam Baughman	
Contact Address: 23 Loudin Avenue Louisa, Virginia 23093	
Contact Phone Number: (540) 967-1226 Emergency (540) 223-3148 email: pbaughman@louisa.org	

D.O. License Class: 4	D.O. Has Required License: Yes
D.O. Legal Name: Chris Crompton	License No./Exp. Date: 1955007687 – 02-28-2027

Inspection By: Azhar N. Mirza	Inspection Date: 1-21-2026
Time Spent: 1 hour	Last Inspection Date: NA, Final Inspection.
Date to Reviewer: 1-27-2026	Reviewed by/Date:
Date to Reviewer:	Reviewed by/Date:
Inspection Type: Final Inspection of a new well (Well No. 2 Spring Creek)	
Present at Inspection: Mr. Chris Crompton of LCWA and Azhar N. Mirza (VDH)	
Facilities Inspected: One new well and related appurtenances	

Operation Permit Effective Date: 1-27-2023	Waterworks Description Sheet Date: 1-27-2023
Permit Up-to-Date: 1-27-2023 ¹	Description Sheet Up-to-Date: 1-27-2023 ¹
No. Connections: 794	Population Served: 2137
Avg. Daily Production: 218,600 gpd	Operation Permit Capacity: 624,800 gpd
Exceeds 80% Operation Permit Capacity? (max. 3 consecutive months): No If yes, explain:	
Treatment Provided: Chlorination	
SDWIS Inventory Information Current: No	

Comments: 1 Spring Creek Well Nos. 1 and 2 must be added.

PART II - SYSTEM SURVEY INFORMATION (Field Notes)

Shaded Boxes	Indicate a potential Significant Deficiency
A. SOURCES	Spring Creek Well No. 2
Sanitary Casing Seal /Cap	Y
Elbowed Casing Vent/Screened	Y, Mushroom vent
12" Casing Extension	Y
Concrete Pad (6' Square)	Y
Well Lot Condition (50 ft. radius)	Y
Protected from Flood Waters/Runoff	Y
Discharge Check Valve	Y
Discharge Shut-Off Valve	Y
Valved Blow-Off	Y
Raw Water Sample Tap	Y
Water Level Gauge or Transducer	OK
Operable Water Meter/Reading	Y. Meter Reading: 008,411,490
Permitted Capacity (gpd)	Neptune Mark 12, Serial No. 70457481
Pumping Rate Observed (gpm)	175 gpm @ 108 psi
Pumping Average hrs/day	NA
Permitted Source Capacity Exceeded?	N
Discharge Head Observed (psi)	108 psi
All Weather Access	
Activity or Pollution Source	N
Approx. Distance from Well	NA
	Hay field
	No planting within 50 ft. of well.

Y = Yes; N = No; NA = Not Applicable; NI = Not Inspected; None = None; OK = Acceptable

PART I - GENERAL INFORMATION

Pb & Cu Materials Survey Approved: () Yes () No **Date:** () No

Cross-Connection Program Approved: () Yes () No **Date:** () No

Bacteriological SSP Approved: () Yes () No **Date:** () No

TTHM/HAA5 SSP Approved () Yes () No **Date:** () No

Source Water Assessment Performed: () Yes () No

Waiver Application Submitted: () Yes () No

Waterworks Business Operations Plan Required: () Yes () No () N/A