

**County of Louisa**  
**Monthly Report**



**Louisa County Water Authority**  
**May 2026**



**Background/History:**

Louisa County Water Authority (LCWA) was created in 1968 by the Louisa County Board of Supervisors to engage in water and wastewater treatment in the County. The County has provided financial assistance as necessary since the Authority’s inception as LCWA works to build a sufficient user and revenue base.

LCWA is comprised of several separate subsystems:

- The Northeast Creek Water Treatment Plant produces water for the Towns of Louisa and Mineral as well as surrounding areas, and utilizes conventional treatment followed by Nanofiltration. This plant uses raw water from the Northeast Creek Reservoir; treated water is delivered via a distribution system which connects end users outside of the Towns as well as Town-managed distribution systems within the Towns.
- The Regional Wastewater Treatment Plant, which is owned by the Town of Louisa and the County and serves the same areas as the Northeast Creek Plant above. LCWA operates this system under contract.
- The Zion Crossroads Water System consists of eight (8) potable production wells, and thirteen (13) monitoring wells and serves the Zion Crossroads/Fernclyff areas through a distribution system.
- The Zion Crossroads Wastewater Treatment Plant and collection system serves the same area as the Zion Crossroads Water System above.
- The Bowlers Mill raw water system is owned by the County and operated by LCWA to provide raw water to Old Dominion Electric Cooperative.
- The New Bridge System at Lake Anna provides water and wastewater services to the development area near Lake Anna on Rt. 208.

**Projects, Maintenance and Action Items:**

**Northeast Creek Water Treatment Plant:**

Decking around generator – Footers dug, concrete poured 01-04-2024	
Shower Replacement – acquiring quotes / estimates	
Continue to build critical inventory	
Security fencing around backwash tank	
Disinfection Byproducts – regain compliance	COMPLETE
Clear well cleaning – confined space entry – week of June 8, 2026	
Isolation valve replacement	
3 <sup>rd</sup> Nanofiltration skid	
Gate valve – discharge pit	
Backwash valve replacement	
Forklift	
Rebuild high service pumps	
VFDs on flocculators	
Float control valve	
Rewash flow meters	
Filter flow meters	
Fit test for respirators	COMPLETE
Chemical spill containment area work	
Distilled water	
Raw line inserter valve	
Check valve at IDA	
HVAC and exhaust fan issues	
Plate Settlers – clean the week of June 1, 2026	COMPLETE
Trac-vac annual prevention and inspection – week of June 1, 2026	COMPLETE
Nanofiltration CIP week of May 18th	COMPLETE
Disinfection byproducts sampling	COMPLETE

**Louisa Regional Wastewater Treatment Plant:**

Water leak	
Wet Well Fall Protection	
Implementing Optimization Study recommendations underway	

Continue to build critical inventory	
Acid bath tank for UV bulb cleaning	
Influent pump failure on Christmas Eve – possible warranty coverage	COMPLETE
Repair septage receiving flow reader – waiting on tech to do site visit	
Gear box bearing for rotor in ditch #3	
Replace cloth disc filters	
Belt press overhaul	
New Gorman Rupp pumps for old influent building	
New chain for grit collector - ordered	
UV overhaul	
Metal building for tractor	

**Zion Crossroads Well System:**

Negotiations with Fluvanna County on a rate to purchase water – agreement drafted	
Clean and paint Zion Crossroads Water Tank – interior – acquiring a price to send in divers	
PFAS sampling	

**Zion Crossroads WWTP:**

Cut drainage ditch and regrade slope behind generator and lab building	
Asphalt seal coat – acquiring pricing	
Security gate – FY2026 – contract signed	
UV System upgrade – equipment is obsolete - underway	
Replace Influent pumps within the next two years	
Truck FY2027	
Xylem vertical turbine pump for inventory	
Roof over UV to protect exposed equipment from elements	
Replace return activated sludge (RAS) motor	
Replace reuse and effluent pumps	

**Dam work – Bowlers Mill and Northeast Creek:**

**New Bridge Water / Sewer System:**

Shoreline Sign – being evaluated	
Build critical inventory	
Upgrade design and PER underway – waiting on 95% design to be completed	
Upgrades to maintain consistent compliance - underway	
New effluent pump	
Spare HP air pump blowers	COMPLETE
Nitrogen sample on Well #1	COMPLETE
Spare chemical feed pump	COMPLETE

**Distribution / Collection System:**

Commercial Meter Replacement – received ¾," 1," 1 ½," and 2" meters and ERTZ - ongoing	
Bush-hogging rights-of-way (preparing for smoke testing) - ongoing	
Smoke testing	
St. Francis, Lagoon and High School pump station control panel replacement – ordered	
Ferncliff water / sewer line extension – currently four boring crews are working	
Spring Creek Section L under construction – phase 1 complete – phase 2 under construction	
Crossing Pointe construction	
Pump Station preventative maintenance – significant repairs and replacement work will need to be completed	
Replace pumps & motors at St. Francis pump station	
Inline valves for Town of Mineral vault	
Truck for new maintenance employee FY2027	
Lagoon pump station waterline installation	
Walmart / Stonegate manhole top section replacement	
Maintenance shop	
Fire hydrant and air relief valve replacement (water and sewer)	
6" Godwin pump with lay flat hose and fittings	
Essex Concrete connection	COMPLETE

**Miscellaneous:**

Amazon	
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Cybersecurity	
Safety Manual – rewrite / update	
Safety training	
Accounting Policies	
Regional Water Supply Planning	
American Water Infrastructure Act updates – 1 <sup>st</sup> set of documents submitted / 2 <sup>nd</sup> submission due 12/31/2026	
Asset Management / Mean time analysis	
Master Planning	

**May Income & Expenditures:**

The Authority’s O & M Revenues exceeded O & M Expenditures by \$65,977 for the month of May 2026. The Authority has a positive O & M cash flow of \$187,297 for FY2026 through May 31, 2026.

Capital Revenues exceeded Capital Expenditures by \$22,089 for the month of May 2026. The Authority has a positive Capital cash flow of \$841,297 for FY2026 through May 31, 2026.

O & M and Capital Revenues exceeded O & M and Capital Expenditures by \$88,066 for the month of May 2026. The Authority has a positive combined O & M and Capital cash flow of \$1,028,430 for FY2026 through May 31, 2026.

**Fund Balance:**

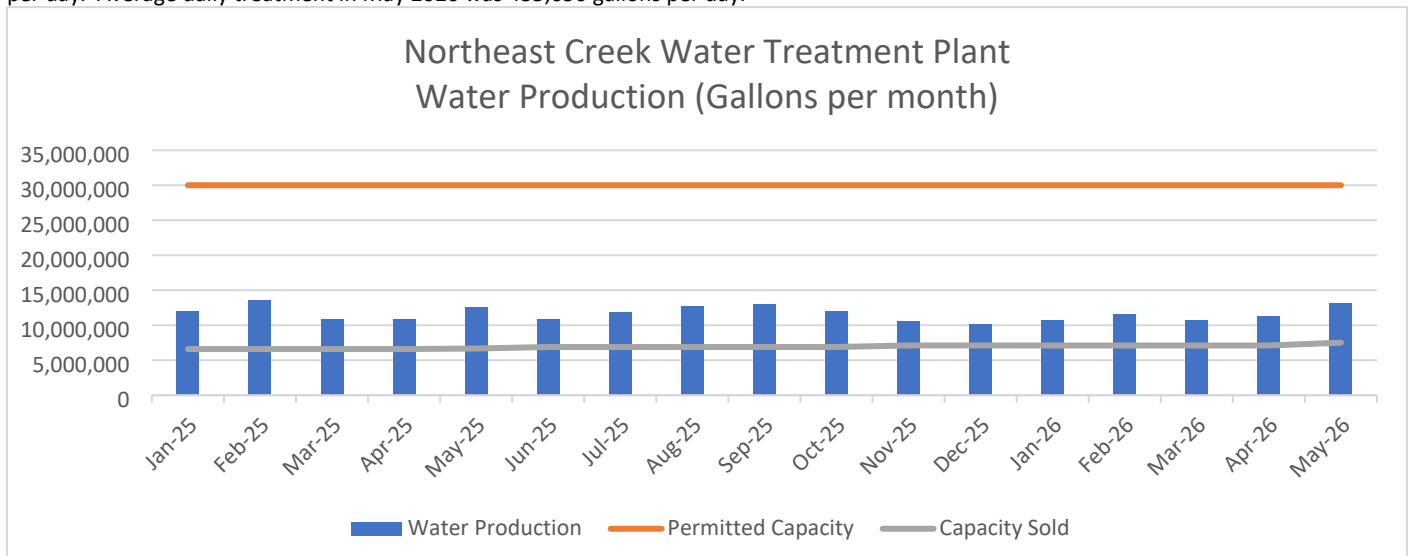
VIP Stable NAV Liquidity Pool **added Crossing Pointe connection fees to maximize interest while scheduling UV replacement at the Zion Crossroads WWTP**	\$1,080,06
VIP 1-3 Year High Quality Bond	\$873,523
Total Reserve Fund Balance (\$850,349 of these funds are restricted and not available for use in paying O&M Expenditures)	\$1,953,729

Restricted funds we are obligated to have on hand: \*\*Included in the fund balance\*\*

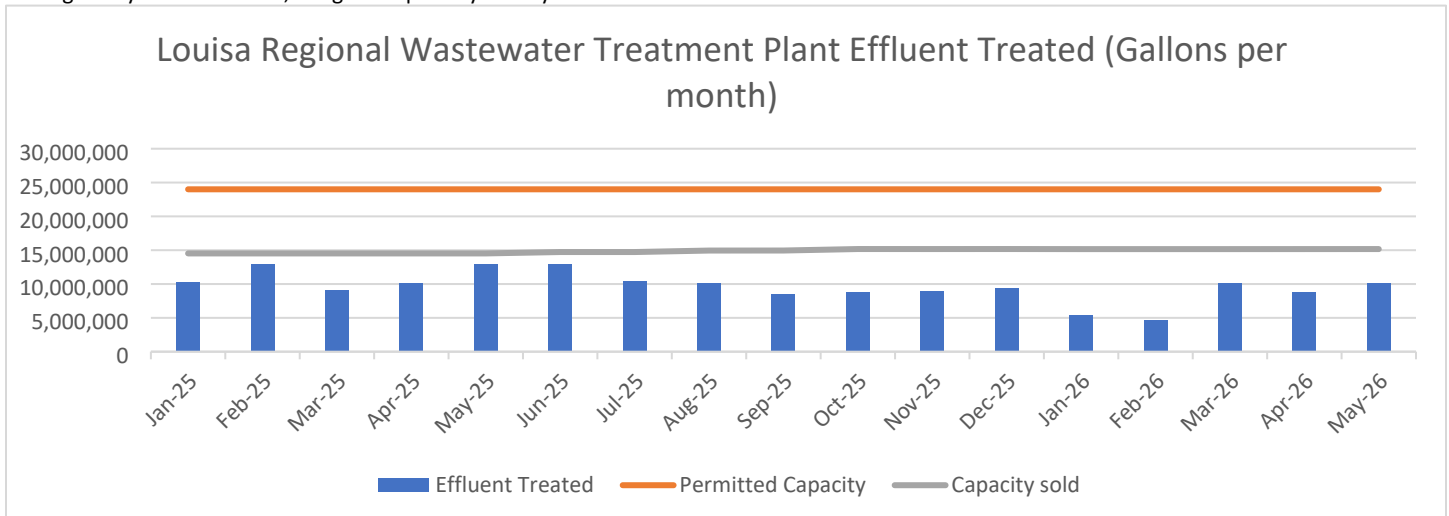
Customer Deposits	\$156,641
Accumulated Regional Sewer Connection Fees (restricted) less approved expenditures	\$528,323
Other Post-Employment Benefits	\$165,639

**Production/Treatment Information:**

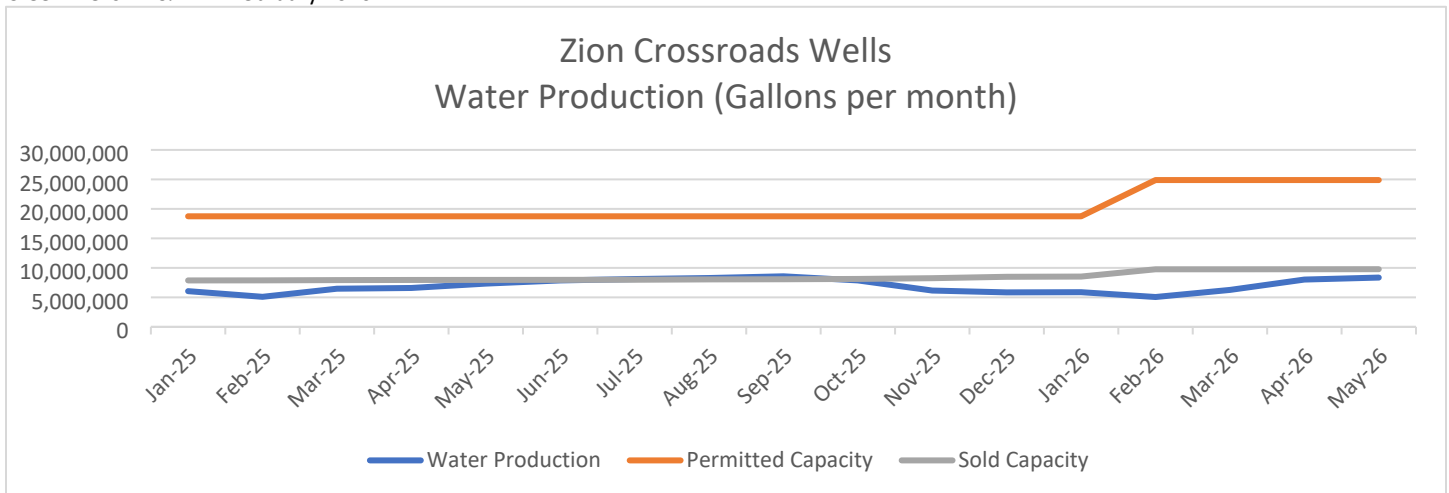
Northeast Creek Water Treatment Plant - The permitted capacity sold is 250,240 gallons per day. The total permitted capacity is 1 million gallons per day. Average daily treatment in May 2026 was 435,650 gallons per day.



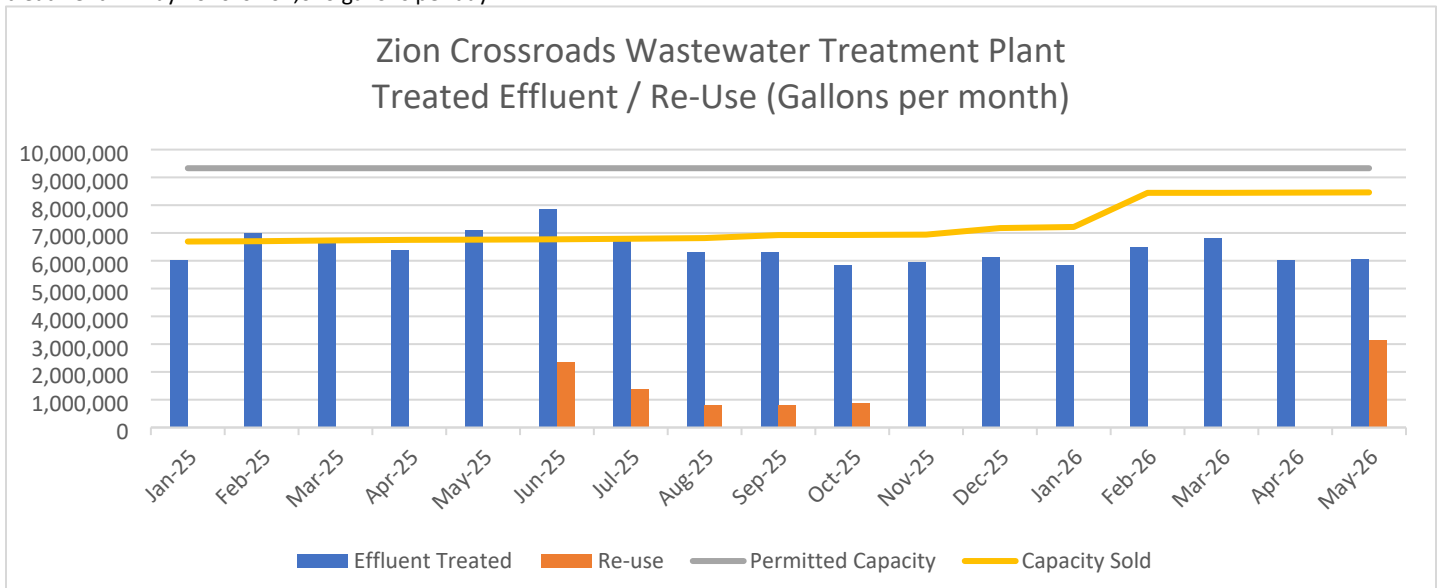
Louisa Regional WWTP - The permitted capacity sold or allocated is 505,600 gallons per day. The permitted capacity is 800,000 gallons per day. Average daily treatment 336,970 gallons per day in May 2026.



Zion Crossroads Well System - The permitted capacity sold or allocated is 325,870 gallons per day. The permitted capacity is 829,600 gallons per day. Average daily treatment is 278,600 gallons per day in May 2026. Increase in permitted capacity because permit was updated to include Spring Creek Wells #1 & #2 in February 2026.



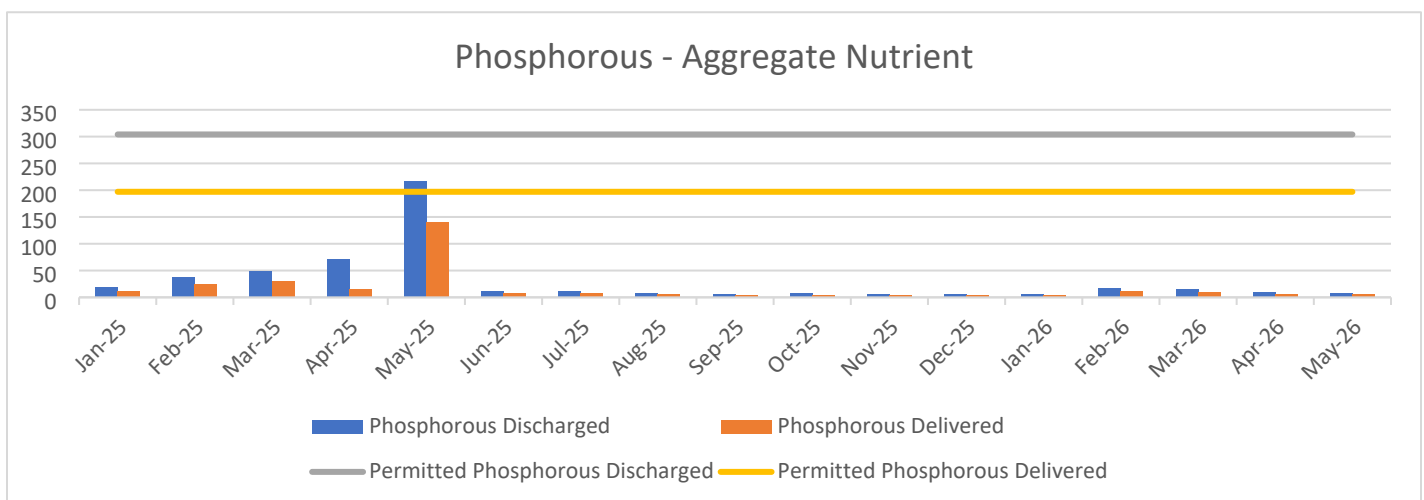
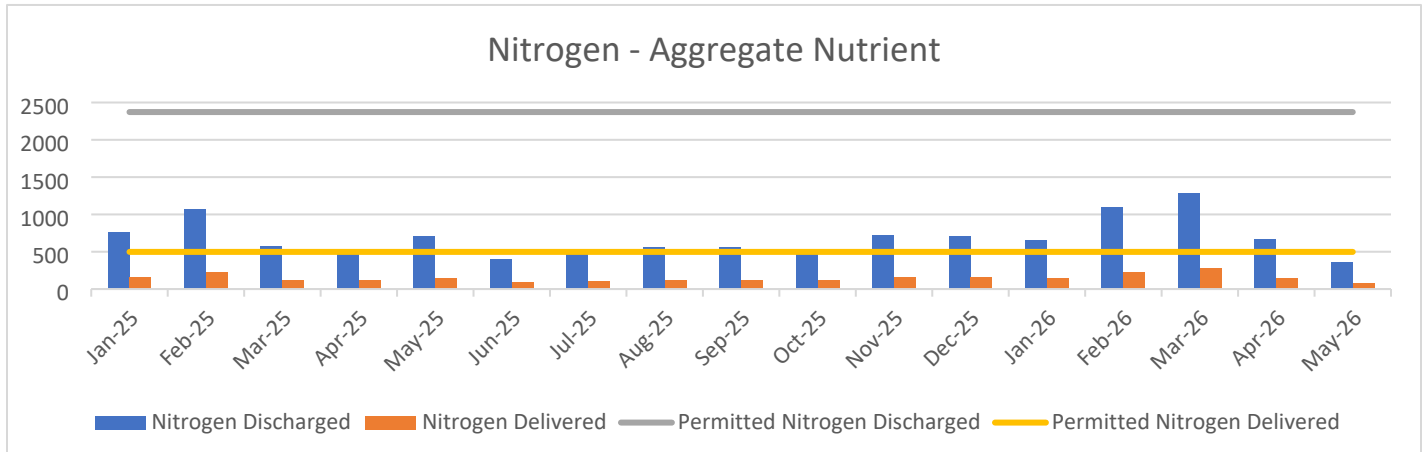
Zion Crossroads WWTP - The permitted capacity sold is 282,000 gallons per day. The permitted capacity is 311,000 gallons per day. Average daily treatment in May 2026 is 202,640 gallons per day.



**Nitrogen / Phosphorous:**

Nitrogen and phosphorus are assigned limits on an aggregated Countywide basis which are set by the Department of Environmental Quality. Nitrogen and phosphorous each have a discharged limit (the amount discharged into the receiving stream) and a delivered limit (a calculation on the actual discharged amount that is delivered to the Chesapeake Bay).

In each graph below the gray line designates the permitted discharge amount; the blue column designates the actual discharged amount. The yellow line designates the permitted delivered amount; the orange column designates the actual delivered amount. In simplistic terms, the gray lines and blue columns go together, and the yellow lines and orange columns go together.



**Total LCWA Connections:**

Year	Number of Connections
2018	50
2019	26
2020	52
2021	64
2022	44
2023	38
2024	39
2025	52
2026*	31

\*Through May 31, 2026