

County of Louisa
Monthly Report



Louisa County Water Authority
April 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	
Chlorination Maintenance	COMPLETE
PFAS Sampling	COMPLETE
Disinfection Byproducts – regain compliance	
Rapid mixer replacement	COMPLETE
Clear well cleaning – confined space entry	
Isolation valve replacement	
3 rd 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	

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	
Repair septage receiving flow reader – waiting on tech to do site visit	
Gear box bearing for rotor in ditch #3	
New Gorman Rupp T3 pump for old RAS building	COMPLETE
Replace cloth disc filters	
Belt press overhaul	
New Gorman Rupp pumps for old influent building	
New chain for grit collector	
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	
UV System upgrade – equipment is obsolete	
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 – 95% plans review scheduled for late May 2026	
Upgrades to maintain consistent compliance - underway	
New effluent pump	
Spare HP air pump blowers	
Spare chemical feed pump	
Nitrite sample	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	

Miscellaneous:

Amazon	
Cybersecurity	

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

April Income & Expenditures:

The Authority’s O & M Revenues exceeded O & M Expenditures by \$136,214 for the month of April 2026. The Authority has a positive O & M cash flow of \$121,156 for FY2026 through April 30, 2026.

Capital Expenditures exceed Capital Revenues by \$140,832 for the month of April 2026. The Authority has a positive Capital cash flow of \$819,128 for FY2026 through April 30, 2026.

O & M and Capital Expenditures exceeded O & M and Capital Revenues by \$4,618 for the month of April 2026. The Authority has a positive combined O & M and Capital cash flow of \$940,284 for FY2026 through April 30, 2026.

Fund Balance:

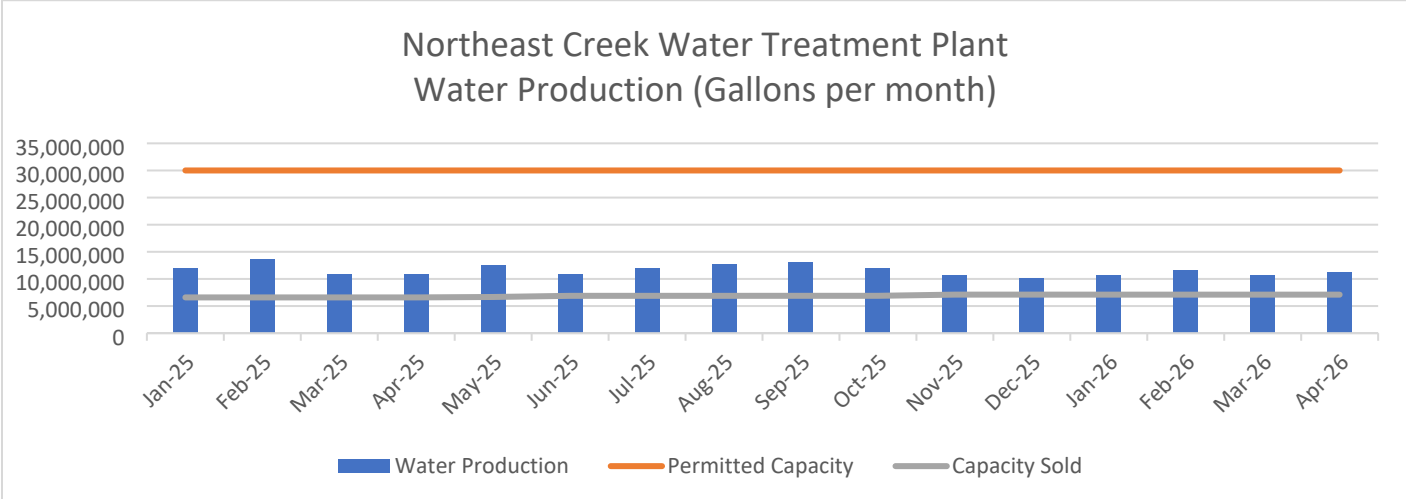
VIP Stable NAV Liquidity Pool **added Crossing Pointe connection fees to maximize interest while scheduling UV replacement at the Zion Crossroads WWTP**	\$1,076,769
VIP 1-3 Year High Quality Bond	\$872,523
Total Reserve Fund Balance (\$850,349 of these funds are restricted and not available for use in paying O&M Expenditures)	\$1,949,292

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

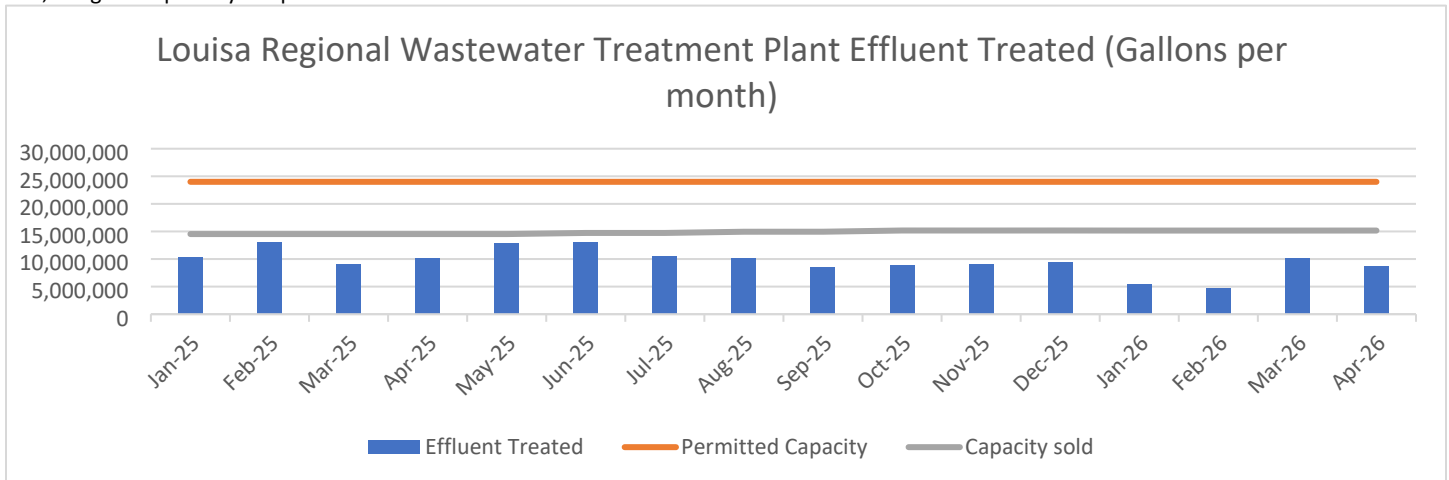
Customer Deposits	\$156,358
Accumulated Regional Sewer Connection Fees (restricted) less approved expenditures	\$528,352
Other Post-Employment Benefits	\$165,639

Production/Treatment Information:

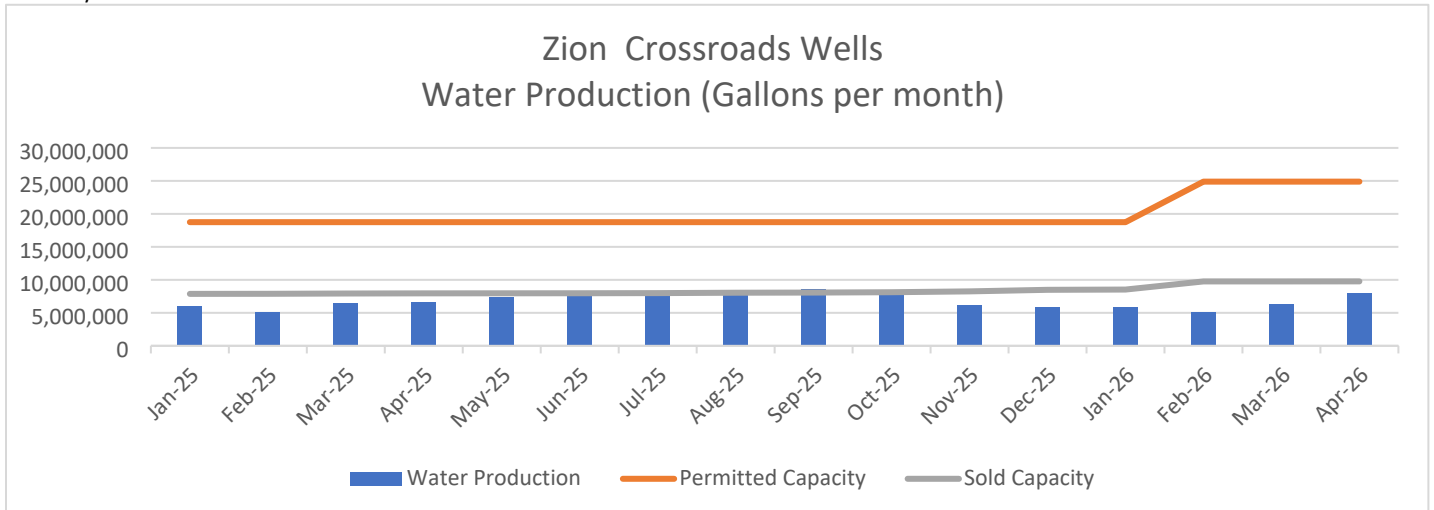
The permitted capacity sold is 236,800 gallons per day. The total permitted capacity is 1 million gallons per day. Average daily treatment in April 2026 was 374,500 gallons per day.



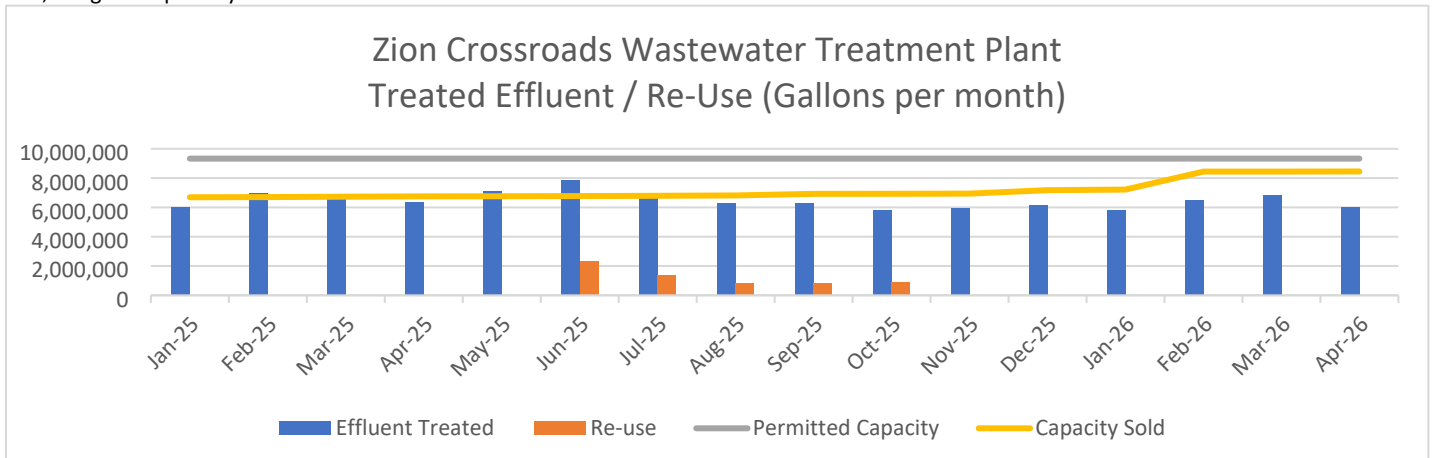
The permitted capacity sold or allocated is 505,500 gallons per day. The permitted capacity is 800,000 gallons per day. Average daily treatment 291,100 gallons per day in April 2026.



The permitted capacity sold or allocated is 325,600 gallons per day. The permitted capacity is 829,600 gallons per day. Average daily treatment 267,288 gallons per day in April 2026. Increase in permitted capacity because permit was updated to include Spring Creek Wells #1 & #2 in February 2026.



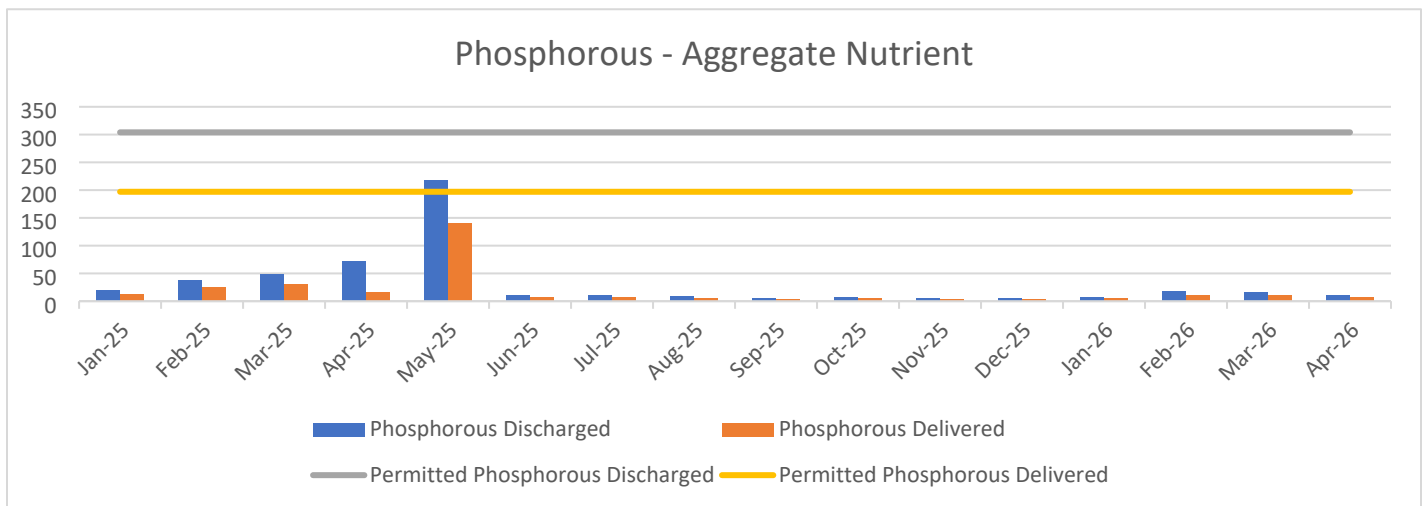
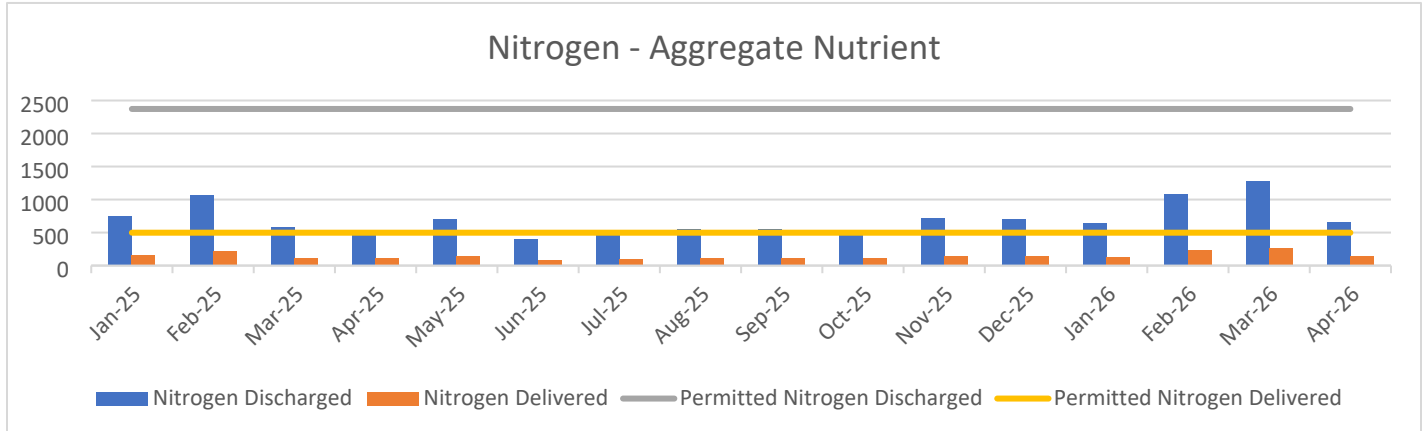
The permitted capacity sold is 281,750 gallons per day. The permitted capacity is 311,000 gallons per day. Average daily treatment in April 2026 is 267,288 gallons per day .



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*	26

*Through April 30, 2026