



WATER DEPARTMENT UPDATE 9-16-24

ED ANDREWS, WATER DIRECTOR

Front St Water Main Break

Front Street Break

4" Main is 149 years old

Call out on Wednesday Morning
at 1am

Contained by late morning with
repair clamp.

Old section of pipe had 4 other
previous repair clamps.

Thursday spliced in new main,
removing all old repair clamps.



Taste & Odor (TnO)

Water Plant switched from a 60/40 blend to 100% Lake Bloomington on Sept 6th based on Taste & Odor (TnO) testing results on Sept 3rd. Weekly sampling will continue until levels drop.

Tase & Odor (TnO) marker compounds

Geosmin and Methyl-Isoborneol (MIB) are naturally occurring compounds that have an earthy/musty taste and odor. Geosmin and MIB do not pose a public health risk, but their presence can cause concern about the quality of drinking water. Utilities around the country may receive high numbers of customer complaints whenever levels of geosmin or MIB increase in their water supply. Geosmin and MIB are some of the most difficult compounds to remove during water treatment.

Generally, geosmin & MIB become a taste & odor issue for customers when levels are in the range of .01 nanograms per liter (ng/L, or 10 parts per trillion), but some people who are particularly sensitive may notice it at levels above .005 ng/l.

DATE	SITE	Geosmin (ng/l)	MIB (ng/l)
9/3/2024	LB pumphouse	3.5	38
9/3/2024	LE pumphouse	4.8	120
9/3/2024	TP01	ND	37

LB = Lake Bloomington
 LE = Lake Evergreen
 TP01 = Treatment Plant
 ND = Non-detect

Summary of Capital Projects

Summary of Current Capital Projects in FY25

Detailed slides follow.

Systemwide Distribution	
Ph 1 - I-55 Tank Farm	In 100% Design w/ Donohue
Ph 2 - I-55 Booster Sta	In 100% Design w/ Donohue
Ph 3 - Division St 2MG WT	In 100% Design w/ Donohue
Ph 4 - Hersey Rd WM	In 100% Design w/ Donohue
Ph 5 - Fort Jesse WM	Wrapping up, Prime = Gildner
Ph 6 - Prairie Vista 1MG WT	Under construction, foundation complete, backfill started
Ph 7 - Division St Booster Sta	In 100% Design w/ Donohue
Ph 8 - S Main Booster Sta	In 100% Design w/ Donohue
Watermain	
Meadowbrook	Under construction, Prime = Gildner
Ridgewood Terrace	Ready for bid, Labor Agreement pending (Design w/ Farnsworth)
PJ Keller Hwy	Survey & Prelim design w/ WHKS
Downtown Streetscape Ph 1	Design proposal received from CMT
Lead Serv Replc Target Area	Design proposal received from CMT
IDOT - IL 9 / Market Street	Under Construction, Prime = Rowe w/ Gildner UG sub
IDOT - US-51	Survey underway, prelim meeting Oct 4th (9,500LF est. \$10M)
Lead Service Lines	
VPIE	Form built out
Inventory Grant Round 3	Mtg w/ CDM Smith on 9-10
Lake & Plant Projects	
Augmentation Wells	Conditioning underway, CDM Smith to get IEPA recirc allowance?
Lake Blm - Drawdown Pipe	
Shoreline Protection	
Wetlands	
Lake Maintenance Building	
General Projects	
AMI	11 antennas deployed, 57% meters are now AMI vs 33% on Dec '23.
FH Color Coding	Lake Maint Staff using new ERSI Collector App
FH Flow Testing	Lake Maint Staff using new ERSI Collector App

Capital Projects – Enterprise (Prairie Vista) WT

Award: \$7.5M

Invoice to Date = \$1.01M

% Complete = 13.5%

Work to date:

- Site Clearing
- Riser / Connection Pipe
- Foundation Pour on 8-21
- Backfill on 9-11

Riser to start week of 9-23



O&M Projects – Lead Service Inventory & Replacement

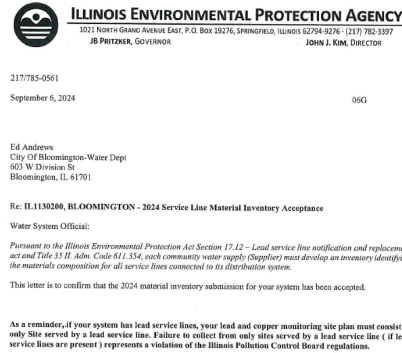
Prelim Inventory submitted to IEPA April 15, 2024

Vector “TruVac” Truck @ COE Equipment ready for delivery to City. This is being rented for \$15k/mo with buyout option.

IEPA Inventory Grant notice received (\$45k).

Inventory “pothole” program until April 2026.

Kobus pipe puller attachment received along with onsite training.



Sincerely,
Adam J. Nutt
Adam Nutt
Compliance Assurance Section
Division of Public Water Supplies
Bureau of Water



O&M Projects – Water Meter AMR to AMI

Recent History of Metering

2009 - Started to convert from touch-read to drive-by (AMR).

2021 – Started to convert from drive-by to tower read (AMI).

2024 – Increased AMI (tower) coverage from 33% in January to 58% in June.

Budgeted for additional towers this FY, in talks with BNWRD, Normal & CIRCA for co-locates.



Meter Communication Type (Last 90 days)		
Type	Number	Percent
AMI	19,221	58.1%
AMR	13,725	41.5%
NONE	1,042	3.1%
TOTAL	33,088	100.0%

Notes:

1. AMI = Tower Read (Hourly Communication)
2. AMR = Driveby (Monthly Reading)
3. NONE = No communication, dead radio or stopped meter

O&M Projects – Hydrant Flushing at Lake Bloomington

In-House Flushing App

Reduced data input, real time in field

Color Code Hydrants

- Red = < 500 gpm
- Orange = 500 – 1000 gpm
- Green = 1000 – 1500 gpm
- Blue = > 1500 gpm

