

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.

		Geosmin	
DATE	SITE	(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 = Glidner
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 propsal received from CMT
Lead Serv Replc Target Area	Design propsal 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	Conidtioning 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

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Capital Projects – Enterprise (Prairie Vista) WT

Award: <u>\$7.5M</u>

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

Vactor "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.





ILLINOIS ENVIRONMENTAL PROTECTION AGENCY NOIS 62794-9276 - (217) 782-339 JOHN J. KIM DIRECTOR

217/785-0561	
Contract of 2024	

Ed Andrew City Of Bloomington-Water Dept 503 W Division St Bloomington II 6170

BLOOMINGTON - 2024 Service Line Material Inventory Acceptar

Vater System Official

ntal Protection Act Section 17.12 - Lead service line notification and replacement act and Title 35 II. Adm. Code 611.354, each community water supply (Supplier) must develop an inventory identifying he materials composition for all service lines connected to its distribution system

This letter is to confirm that the 2024 material inventory submission for your system has been accepted

As a reminder, if your system has lead service lines, your lead and copper monitoring site plan must consist of only Site served by a lead service line. Failure to collect from only sites served by a lead service line (if lead service lines are present) represents a violation of the Illinois Pollution Control Board regulation

Compliance Assurance Section





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 Co	mmunication	Туре
(L	ast 90 days)	
Туре	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



10:53	2	♥ 468 all 579	
×	Collect		
S		Hydrant Flushing Entry Form Related to LB80	
Flus	hing Date		
Sep	13, 2024 10:51	1 AM	
Oper	ational Status *		
In S	Service	8	
Cap	Color (Calculated)	*	
Gre	en		
- Stati	ic Pressure (PSI) *		
35		8	
Resi	dual Pressure (PSI)		
26		8	
Time	er Start		
Tru	e	•	
Time	er End		
Tru	e	•	
Flus	hing Start		
Sep	13, 2024 10:48	3 AM	

< Collec	et	
↔ Hydra Related	Int Flushin to LB80	g Entry Fo
Timer Start		
True		•
Timer End		
True		•
Flushing Start -		
Sep 13, 2024	10:48 AM	
Flushing End —		
Sep 13, 2024	10:51 AM	
Flushing Time (r	mins)	
2		
Calculated Flow	(GPM)	
856		
Calculated Flow	(20 PSI)	
1,128		
Flushing Notes		

